



Focus Product Selector Guide

Microcontrollers • Digital Signal Controllers • Analog • Memory • Wireless



Microchip: A Partner in Your Success

Microchip is a leading provider of microcontroller and analog semiconductors, providing low-risk product development, lower total system cost and faster time to market for thousands of diverse customer applications worldwide. Offering outstanding technical support along with dependable delivery and quality, Microchip serves over 70,000 customers in more than 65 countries who are designing high-volume embedded control applications in the consumer, automotive, office automation, communications and industrial control markets worldwide.

8-bit PIC® Microcontrollers

8-bit PIC microcontrollers provide developers with an easy migration path from 6 to 100 pins, with little or no code change required. Our flexible 8-bit PIC MCU portfolio offers a number of product families with varying levels of intelligent peripheral integration and operating capability, enabling you to find the best PIC MCU for your specific application.

The 8-bit PIC MCU portfolio's true strength lies in the vast array of flexible hardware peripherals that are available to increase capability in any control system. Working in concert, our selection of Core Independent Peripherals (CLC, CWG/COG, NCO, PSMC, ZCD and more), Intelligent Analog (op amps, comparators, ADC, DAC, CTMU), human interface peripherals (LCD, mTouch® technology) and on-board communications can enable system functions on PIC MCUs with minimal code footprint, reduced power consumption and accelerated time-to-market. Common application functions like power and motor control, environmental sensing, system management and user interface can be combined onto a single PIC MCU to develop an extremely cost-effective solution.

A powerful, unified development environment harnesses the power of PIC MCUs to ease your design-in process. MPLAB® Code Configurator ensures an efficient development experience by automatically generating source code for system set-up and function implementation. For more information visit: www.microchip.com/8bit.

16-bit PIC Microcontrollers

The 16-bit PIC24 family is comprised of two sub-families. The PIC24F offers a cost-effective low-power step up in performance, memory and peripherals for many applications that are pushing the envelope of 8-bit microcontroller capabilities. For more demanding applications, the PIC24H/E offers up to 70 MIPS performance, up to 150°C operation, more memory and additional peripherals, such as CAN communication modules. For more information visit: www.microchip.com/16bit.

dsPIC® Digital Signal Controllers

The dsPIC family of Digital Signal Controllers (DSCs) features a fully implemented digital signal processor (DSP) engine, with up to 70 MIPS performance, C compiler-friendly design and a familiar microcontroller architecture and design environment. The dsPIC 16-bit Flash DSCs provide the industry's highest performance, and have features supporting motor control, digital power conversion, speech and audio, intelligent sensing and general purpose embedded control applications. For more information visit: www.microchip.com/dspic.

32-bit PIC Microcontrollers

The PIC32 family adds more performance and more memory while maintaining pin, peripheral and software compatibility with Microchip's 16-bit MCU/DSC families. The PIC32 family operates at up to 330 DMIPS and offers ample code and data space capabilities with up to 2048 KB Flash and 512 KB RAM. From simple USB device connectivity to RTOS-driven graphical user interface applications with advanced audio processing, there is a PIC32 device to meet your design challenges. For more information visit: www.microchip.com/32bit.

Analog and Interface Products

Microchip's integrated analog technology, peripherals and features are engineered to meet today's demanding design requirements. Our broad spectrum of analog products addresses thermal management, power management, battery management, mixed-signal, linear, interface and safety and security solutions. Our broad portfolio of stand-alone analog and interface devices offers highly integrated solutions that combine various analog functions in space-saving packages and support a variety of bus interfaces. Many of these devices support functionality that enhances the analog features currently available on PIC microcontrollers. For more information visit: www.microchip.com/analog.

Timing and Communication Products

Microchip has an expansive, wide-ranging clock and timing portfolio that delivers total solutions for your complex timing requirements. Our oscillator products offer both low-jitter and low-power online configurable products with the option of choosing a traditional quartz-based solution or going with our MEMS silicon-based resonator products. The clock generation line offers online configurable, single-chip, multiple-frequency clock tree solutions. Our clock and data distribution product line includes one of the industry's largest portfolios of buffers, logic translators and multiplexers, rounding off selection to provide our customers with a truly total solution for their clock and timing requirements.

With the right products, configuration tools and technical support, Microchip's Timing and Communications products are ideal for all designs, from simple to high-performance systems.

Microchip: A Partner in Your Success

Real-Time Clocks

Microchip offers a family of highly integrated, low-cost Real-Time Clock/Calendar devices with battery backup capability, digital trimming, plus on-board EEPROM and SRAM memory. For more information visit: www.microchip.com/clock.

Memory Products

Microchip's broad portfolio of memory devices includes Serial EEPROM, Serial SRAM, Serial Flash and Parallel Flash devices. Our innovative, low-power designs and extensive testing have ensured industry-leading robustness and endurance along with best-in-class quality at low costs. For more information visit: www.microchip.com/memory.

Wireless Products

The Microchip wireless portfolio is focused on offering extremely low-power operation and is designed for sensing or command/control operation products. This extensive portfolio is comprised of solutions for Wi-Fi, Bluetooth®, LoRa® technology, 802.15.4 (such as ZigBee® or MiWi™ wireless networking protocol) along with proprietary 2.4 GHz and Sub-GHz communications. For more information visit: www.microchip.com/wireless.

High-Throughput USB and Ethernet Interface Solutions

In many industrial, Internet of Things (IoT), consumer and automotive applications, high-speed networking is the backbone. Microchip offers a complete portfolio of Ethernet PHYs, switches, controllers and bridge devices, enabling Gigabit-speed communications in harsh environments. The USB offering spans low-cost to SuperSpeed and incorporates value-rich solutions such as USB smart hub controllers, power delivery and charging, transceivers/switches, Flash media controllers and security solutions. For more information visit www.microchip.com/usb and www.microchip.com/ethernet.

Motion Solutions

Microchip makes it easy to design motion-based applications. Microchip offers an easy-to-use, time-saving motion module in a small, solderable form factor. Microchip offers discrete, chip-down solutions for both Windows® 8.X applications and for embedded and IoT applications. Our motion coprocessors come programmed with sophisticated sensor fusion algorithms. The coprocessors intelligently filter, compensate and combine the raw sensor data to output accurate position and orientation information to the host MCU of the embedded device over I²C. For more information visit: www.microchip.com/motion.

MOST® Technology

Media Oriented Systems Transport (MOST) is the accepted standard in high-bandwidth automotive infotainment systems. MOST technology is broadly standardized from the physical layer up to the application level. Various speed grades and physical layers are available. MOST carries A/V streaming, packet, isochronous and control data, has a high flexibility and scalability and is approved to carry DVD and Blu-ray™ content using Digital Transmission Content Protection (DTCP). For more information visit: www.microchip.com/automotiveproducts.

Embedded Controllers and Super I/O

Microchip offers a full line of computing solutions including embedded controllers, keyboard controllers (KBC), I/O controllers and legacy I/O devices. For more information visit: www.microchip.com/computing.

Touch, Multi-Touch and 3D Gesture Control

Microchip offers the most feature-complete solutions in capacitive sensing. From single touch buttons and proximity sensing to touchpads, touch screens and free-space 3D gesture control. Microchip's turnkey solutions come with GUI software tools for easy design-in cycles that shorten your time to market. For more information please visit: www.microchip.com/mtouch.



Microchip Block Diagram Support

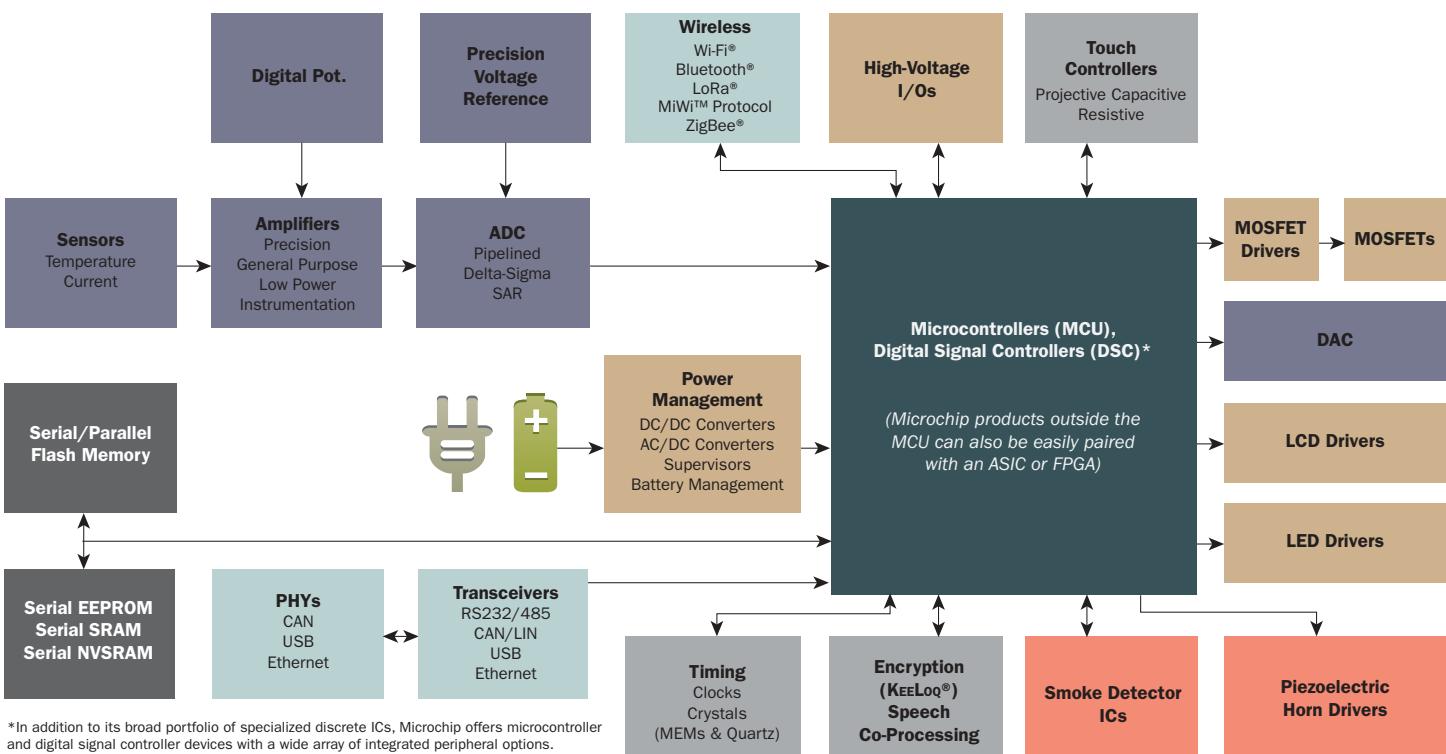


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Product		Released (R) / Not Released (NR)			Pins	Core	Memory			Operating Speed	Intelligent Analog				Waveform Control			Timing and Measurements		Logic and Math		Safety and Monitoring		Comm.		Human Interface		Low Power and System Flexibility		Packages (Designator)															
		Total	I/O				Program	Self-Read/Write	Data RAM (B)		Maximum Speed	Internal Oscillator	8-bit ADC	10-bit ADC	12-bit ADC	ADC ²	Comparators	DAC (5b/8b/9b/10b)	HC I/O (mA)	Op Amp	PRG/SlopeComp	2xD	CTMU	PWM (10b/16b)*	CSP (10b PWM)	ECP (10b PWM)	PSMC (16b PWM)*	CW/G/COG	NCO*	DSM	8-/16-bit Timer	HT	AnG/TMR	SMT	Temp. Indicator	CLC	Hardware Multiply	MatAcc	CRC/SCAN	WWDT	Resets	PLVD	EUART/AUSART	I ² C/SPI	USB 2.0 Device
6-Pin	PIC10F200	R	6	4	BL	0.375 KB 0.25 Kw	-	16	-	2-5.5V	4 MHz	4 MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.30										
	PIC10F202	R	6	4	BL	0.75 KB 0.50 Kw	-	24	-	2-5.5V	4 MHz	4 MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.33												
	PIC10F204	R	6	4	BL	0.375 KB 0.25 Kw	-	16	-	2-5.5V	4 MHz	4 MHz	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.33													
	PIC10F206	R	6	4	BL	0.75 KB 0.50 Kw	-	24	-	2-5.5V	4 MHz	4 MHz	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.36													
	PIC10F220	R	6	4	BL	0.375 KB 0.25 Kw	-	16	-	2-5.5V	8 MHz	4 MHz, 8 MHz	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.36													
	PIC10F222	R	6	4	BL	0.75 KB 0.50 Kw	-	23	-	2-5.5V	8 MHz	4 MHz, 8 MHz	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.39													
	PIC10F320 	R	6	4	MR	0.4375 KB 0.25 Kw	RW	32	-	1.8-5.5V	16 MHz	16 MHz	3	-	-	-	-	-	2/0	-	-	1/0	1	-	2/1	-	-	✓	1	-	-	3	\$0.39												
	PIC10F322 	R	6	4	MR	0.875 KB 0.50 Kw	RW	64	-	1.8-5.5V	16 MHz	16 MHz	3	-	-	-	-	-	2/0	-	-	1/0	1	-	2/1	-	-	✓	1	-	-	-	\$0.42												
8-Pin	PIC16F15313 	NR	8	6	EMR	3.5 KB 2 Kw	RW	256	-	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	5	-	-	1	1/0/0/0	-	-	✓	-	4/0	2	-	-	1/0	1	-	1/2	✓	-	-	✓	4	-	-	✓	call for pricing	PDIP (P), SOIC (SN), DFN (MC), UDFN (MU)					
	PIC12F1571 	R	8	6	EMR	1.75 KB 1 Kw	RW	128	HEF	1.8-5.5V	32 MHz	32 MHz	-	4	-	-	1	1/0/0/0	-	-	-	0/3	-	-	-	1/0	-	-	2/1	-	-	-	✓	-	-	-	-	\$0.39							
	PIC12F1572 	R	8	6	EMR	3.5 KB 2 Kw	RW	256	HEF	1.8-5.5V	32 MHz	32 MHz	-	4	-	-	1	1/0/0/0	-	-	-	0/3	-	-	-	1/0	-	-	2/1	-	-	-	✓	-	-	-	\$0.43								
	PIC12F1501 	R	8	6	EMR	1.75 KB 1 Kw	RW	64	HEF	1.8-5.5V	20 MHz	16 MHz	-	4	-	-	1	-	-	-	-	4/0	-	-	-	1/0	1	-	2/1	-	-	✓	1	-	-	-	\$0.49								
	PIC16F18313 	R	8	6	EMR	3.5 KB 2 Kw	RW	256	256	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	5	-	-	1	1/0/0/0	-	-	-	-	2/0	2	-	-	1/0	1	1	2/1	-	-	✓	2	-	-	-	\$0.53							
	PIC12F1612 	R	8	6	EMR	3.5 KB 2 Kw	RW	256	HEF	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	4	-	-	1	0/1/0/0	-	-	✓	-	2	-	-	1/0	-	-	1/1	✓	-	2	✓	-	-	\$0.56									
	PIC12F752 	R	8	6	MR	1.75 KB 1 Kw	RW	64	-	2-5.5V	20 MHz	4 MHz, 8 MHz	-	4	-	-	2	1/0/0/0	50	-	-	-	1	-	-	0/1	-	-	3/1	-	-	-	-	BOR	SW◊	-	-	4	-	-	\$0.59				
	PIC12LF1552 	R	8	6	EMR	3.5 KB 2 Kw	RW	256	HEF	1.8-3.6V	32 MHz	16 MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.66													
	PIC12F1822 	R	8	6	EMR	3.5 KB 2 Kw	RW	128	256	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	4	-	-	1	-	-	-	-	-	1	-	-	1	2/1	-	-	✓	-	-	-	-	\$0.73										
	PIC12F1840 	R	8	6	EMR	7 KB 4 Kw	RW	256	256	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	4	-	-	1	-	-	-	-	-	1	-	-	1	2/1	-	-	✓	-	-	-	-	\$0.78										

Products sorted by pin count followed by pricing.

† Pricing subject to change; please contact your Microchip representative for most current pricing.

◊ Software PLVD implemented via ADC.

* Usable as a General Purpose Timer.

‡ eXtreme Low Power variants available.

8-BIT PIC® MICROCONTROLLERS

Product	Released (R)/Not Released (NR)		Operating Speed	Memory		Voltage Range	Maximum Speed	Internal Oscillator	Intelligent Analog				Waveform Control			Timing and Measurements		Logic and Math		Safety and Monitoring		Comm.		Human Interface		Low Power and System Flexibility		Packages (Designator)																				
	Total	I/O		Program	Self-Read/Write				B-bit ADC	10-bit ADC	12-bit ADC	ADC ^C	Comparators	DAC (5b/8b/9b/10b)	HC I/O (mA)	Op Amp	PRG/SlopeComp	ZCD	CTMU	PWM (10b/16b)*	CSP (10b PWM)	ECPP (10b PWM)	PSMC (16b PWM)*	CWIG/COG	NCO*	DSM	S/16-bit Timer	HLT	AngTMR	SMT	Temp. Indicator	CLC	Hardware Multiply	MatAcc	CRC/SCAN	WWDT	Resets	PWVD	EUSART/AUSART	I ^C /SPI	USB 2.0 Device	mTouch® Channels	LCD Segments	PPS	IDLE/PMD	DOZE		
14-Pin	PIC16F15323	NR	14	12	EMR	3.5 KB 2 Kw	RW	256	-	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	11	-	-	2	1/0/0/0	-	-	-	✓	-	4/0	2	-	-	1/0	1	-	1/2	✓	-	-	✓	LPBOR/ POR	-	1/0	1	-	-	✓	✓	✓	call for pricing	PDIP (P), SOIC (SL), TSSOP (ST), 4 x 4 QFN (ML), 4 x 4 UQFN (JQ)		
	PIC16F15324	NR	14	12	EMR	7 KB 4 Kw	RW	512	-	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	11	-	-	2	1/0/0/0	-	-	-	✓	-	4/0	2	-	-	1/0	1	-	1/2	✓	-	-	✓	LPBOR/ POR	-	2/0	1	-	-	✓	✓	✓	call for pricing	PDIP (P), SOIC (SL), TSSOP (ST), 4 x 4 QFN (ML), 4 x 4 UQFN (JQ)		
	PIC16F15325	NR	14	12	EMR	14 KB 8 Kw	RW	1K	-	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	11	-	-	2	1/0/0/0	-	-	-	✓	-	4/0	2	-	-	1/0	1	-	1/2	✓	-	-	✓	LPBOR/ POR	-	2/0	1	-	-	✓	✓	✓	call for pricing	PDIP (P), SOIC (SL), TSSOP (ST), 4 x 4 QFN (ML), 4 x 4 UQFN (JQ)		
	PIC16F505	R	14	12	BL	1.5 KB 1 Kw	-	72	-	2-5.5V	20 MHz	4 MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.48											
	PIC16F506	R	14	12	BL	1.5 KB 1 Kw	-	67	-	2-5.5V	20 MHz	4/8 MHz	4	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.52													
	PIC16F526	R	14	12	BL	1.5 KB 1 Kw	-	67	64	2-5.5V	20 MHz	4/8 MHz	4	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.55														
	PIC16F1503	R	14	12	EMR	3.5 KB 2 Kw	RW	128	HEF	1.8-5.5V	20 MHz	16 MHz	-	8	-	-	2	-	-	-	-	4/0	-	-	1/0	1	-	2/1	-	-	✓	1	-	-	-	-	\$0.55											
	PIC16F18323	R	14	12	EMR	3.5 KB 2 Kw	RW	256	256	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	11	-	-	2	1/0/0/0	-	-	-	-	2/0	2	-	-	1/0	1	1	2/1	-	-	✓	2	-	-	-	-	TSSOP (ST), SOIC (SL), UQFN (JQ), PDIP (P)									
	PIC16LF1554	R	14	12	EMR	7 KB 4 Kw	RW	256	HEF	1.8-3.6V	32 MHz	16 MHz	-	11	-	-	-	1/0/0/0	-	-	-	-	2/0	1	-	-	-	-	-	-	-	-	-	-	\$0.60													
	PIC16F1613	R	14	12	EMR	3.5 KB 2 Kw	RW	256	HEF	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	8	-	-	2	0/1/0/0	-	-	-	✓	-	-	2	-	-	-	-	-	-	-	-	-	\$0.60													
	PIC16F1703	R	14	12	EMR	3.5 KB 2 Kw	RW	256	HEF	1.8-5.5V	32 MHz	16 MHz	-	8	-	-	0	-	-	2	-	✓	-	0/0	-	-	2/1	-	-	✓	-	-	-	-	\$0.62													
	PIC16F753	R	14	12	MR	3.5 KB 2 Kw	RW	128	-	2-5.5V	20 MHz	4/8 MHz	-	8	-	-	2	0/0/1/0	50	1	1	-	-	1	1	-	0/1	-	-	3/1	-	-	-	-	-	BOR	-	1/0	1	-	11	-	-	\$0.63				
	PIC16F1574	R	14	12	EMR	7 KB 4 Kw	RW	512	HEF	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	12	-	-	2	1/0/0/0	-	-	-	-	0/4	-	-	1/0	-	-	2/1	-	-	✓	-	-	-	-	-	POR/ POR/LPBOR	-	1/0	-	-	12	-	✓	-	\$0.64	
	PIC16F18324	R	14	12	EMR	7 KB 4 Kw	RW	512	256	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	11	-	-	2	1/0/0/0	-	-	-	-	2/0	4	-	-	2/0	1	-	4/3	-	-	✓	4	-	-	-	-	PBOR/ POR/LPBOR	-	1/0	1	-	11	-	✓	✓	\$0.64
	PIC16F1704	R	14	12	EMR	7 KB 4 Kw	RW	512	HEF	1.8-5.5V	32 MHz	16 MHz	-	8	-	-	2	0/1/0/0	-	2	-	✓	-	2/0	2	-	0/1	-	1	4/1	-	-	✓	3	-	-	-	-	POR/ LPBOR	-	1/0	1	-	8	-	✓	-	\$0.67
	PIC16F1614	R	14	12	EMR	7 KB 4 Kw	RW	512	HEF	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	8	-	-	2	0/1/0/0	100	-	-	✓	-	2/0	2	-	1/0	-	-	3/1	✓	✓	2	✓	2	-	✓	✓	PBOR	-	1/0	1	-	8	-	✓	-	\$0.70
	PIC16F1575	R	14	12	EMR	14 KB 8 Kw	RW	1K	HEF	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	12	-	-	2	1/0/0/0	-	-	-	-	0/4	-	-	1/0	-	-	2/1	-	-	✓	-	-	-	-	-	POR/ PBOR/LPBOR	-	1/0	-	-	12	-	✓	-	\$0.71	

Products sorted by pin count followed by pricing.

† Pricing subject to change; please contact your Microchip representative for most current pricing.

◊ Software PLVD implemented via ADC.

* Usable as a General Purpose Timer.

‡ eXtreme Low Power variants available.

8-BIT PIC® MICROCONTROLLERS

Products sorted by pin count followed by pricing

[†] Pricing subject to change; please contact your Microchip representative for most current pricing.
[‡] Software P/D/P implemented via ADC.

- ◊ Software PLVD implemented via ADC.
- * Usable as a General Purpose Timer

XLP eXtreme Low Power variants available

8-BIT PIC® MICROCONTROLLERS																																																			
Product	Released (R) / Not Released (NR)		Pins		Memory				Operating Speed		Intelligent Analog						Waveform Control			Timing and Measurements		Logic and Math		Safety and Monitoring		Comm.		Human Interface		Low Power and System Flexibility		Packages (Designator)																			
	Total	I/O	CORE	Program	Self-Read/Write	Data RAM (B)	Data EEPROM (B)	Voltage Range			Maximum Speed	Internal Oscillator	8-bit ADC	10-bit ADC	12-bit ADC	ADC ^C	Comparators	DAC (5b/8b/9b/10b)	HQ I/O (mA)	Op Amp	PRG/SlopeComp	ZCD	CTMU	PWM (10b/16b)*	COP (10b PWM)	ECP (10b PWM)	PSMC (16b PWM)*	CWIG/COG	NOO*	DSM	8-/16-bit Timer	HIT	AnglTMR	SMT	Temp. Indicator	CLC	Hardware Multiply	MatAcc	CRC/SCAN	WDT	Resets	PLVD	EUART/AUUSART	I²C/SPI	USB 2.0 Device	mTouch® Channels	LCD Segments	PPS	IDLE/PMD	DOZE	
	Total	I/O	CORE	Program	Self-Read/Write	Data RAM (B)	Data EEPROM (B)	Voltage Range	Maximum Speed	Internal Oscillator	8-bit ADC	10-bit ADC	12-bit ADC	ADC ^C	Comparators	DAC (5b/8b/9b/10b)	HQ I/O (mA)	Op Amp	PRG/SlopeComp	ZCD	CTMU	PWM (10b/16b)*	COP (10b PWM)	ECP (10b PWM)	PSMC (16b PWM)*	CWIG/COG	NOO*	DSM	8-/16-bit Timer	HIT	AnglTMR	SMT	Temp. Indicator	CLC	Hardware Multiply	MatAcc	CRC/SCAN	WDT	Resets	PLVD	EUART/AUUSART	I²C/SPI	USB 2.0 Device	mTouch® Channels	LCD Segments	PPS	IDLE/PMD	DOZE			
20-Pin	PIC16F15344 ^{MLF}	NR	20	18	EMR	7 KB 4 Kw	RW	512	-	1.8–5.5V	32 MHz	32 MHz, 31 kHz	-	17	-	-	2	1/0/0/0	-	-	-	-	✓	-	4/0	2	-	-	1/0	1	-	1/2	✓	-	-	✓	4	-	-	-	-	-	✓	✓	✓	call for pricing	PDIP (P), SOIC(SO), SSOP (SS), 4 x 4 QFN (ML), 4 x 4 UQFN (GZ)				
	PIC16F15345 ^{MLF}	NR	20	18	EMR	14 KB 8 Kw	RW	1K	-	1.8–5.5V	32 MHz	32 MHz, 31 kHz	-	17	-	-	2	1/0/0/0	-	-	-	-	✓	-	4/0	2	-	-	1/0	1	-	1/2	✓	-	-	✓	4	-	-	-	-	-	✓	✓	✓	call for pricing	PDIP (P), SOIC(SO), SSOP (SS), 4 x 4 QFN (ML), 4 x 4 UQFN (GZ)				
	PIC16F527 ^{MLF}	R	20	18	EBL	1.5 KB 1 Kw	RW	68	64	2–5.5V	20 MHz	8 MHz	8	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.49	PDIP (P), 4 x 4 QFN (ML), SSOP (SS), SOIC (SO)												
	PIC16F1507 ^{MLP}	R	20	18	EMR	3.5 KB 2 Kw	RW	128	HEF	1.8–5.5V	20 MHz	16 MHz	-	12	-	-	-	-	-	-	-	-	-	4/0	-	-	1/0	1	-	2/1	-	-	-	✓	2	-	-	-	-	-	PB0R	SW	-	-	-	12	-	-	-	\$0.69	PDIP (P), SOIC (SO), SSOP (SS), 4 x 4 QFN (ML), 4 x 4 UQFN (GZ)
	PIC16F1578 ^{MLP}	R	20	18	EMR	7 KB 4 Kw	RW	512	HEF	1.8–5.5V	32 MHz	32 MHz, 31 kHz	-	8	-	-	2	1/0/0/0	-	-	-	-	0/4	-	-	1/0	-	-	2/1	-	-	-	✓	-	-	-	-	-	POR/PBOR/LPBOR	-	1/0	-	-	8	-	-	-	\$0.70	PDIP (P), SSOP (SS), SOIC (SL), UQFN (GZ)		
	PIC16F18344 ^{MLP}	R	20	18	EMR	7 KB 4 Kw	RW	512	256	1.8–5.5V	32 MHz	32 MHz, 31 kHz	-	17	-	-	2	1/0/0/0	-	-	-	-	2/0	4	-	-	2/0	1	1	4/3	-	-	-	✓	4	-	-	-	-	PB0R/POR/LPBOR	-	1/0	1	-	17	-	✓	✓	\$0.70	SSOP (SS), SOIC (SO), 4 x 4 UQFN (GZ), PDIP (P)	
	PID16LF1559 ^{MLP}	R	20	18	EMR	14 KB 8 Kw	RW	512	HEF	1.8–3.6V	32 MHz	16 MHz	-	17	-	-	-	-	-	-	-	-	2/0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.73	PDIP (P), SSOP (SS), 4 x 4 QFN (ML)									
	PIC16F1618 ^{MLP}	R	20	18	EMR	7 KB 4 Kw	RW	512	HEF	1.8–5.5V	32 MHz	32 MHz, 31 kHz	-	12	-	-	-	0/1/0/0	100	-	-	✓	-	2/0	2	-	-	1/0	-	-	3/1	✓	✓	2	✓	4	-	✓	✓	PB0R	-	1/0	1	-	12	-	✓	-	\$0.74	PDIP (P), SSOP (SS), SOIC (SO), 5 x 5 QFN (MQ)	
	PIC16F1579 ^{MLP}	R	20	18	EMR	14 KB 8 Kw	RW	1K	HEF	1.8–5.5V	32 MHz	32 MHz, 31 kHz	-	12	-	-	2	1/0/0/0	-	-	-	-	0/4	-	-	1/0	-	-	2/1	-	-	-	✓	-	-	-	-	-	POR/PBOR/LPBOR	-	1/0	-	-	12	-	✓	-	\$0.77	PDIP (P), SSOP (SS), SOIC (SO), 4 x 4 UQFN (GZ)		
	PIC16F18345 ^{MLP}	R	20	18	EMR	14 KB 8 Kw	RW	1K	256	1.8–5.5V	32 MHz	32 MHz, 31 kHz	-	17	-	-	2	1/0/0/0	-	-	-	-	2/0	4	-	-	2/0	1	1	4/3	-	-	-	✓	4	-	-	-	-	PB0R/POR/LPBOR	-	1/0	2	-	17	-	✓	✓	\$0.77	SSOP (SS), SOIC (SO), 4 x 4 UQFN (GZ), PDIP (P)	
	PIC16F1508 ^{MLP}	R	20	18	EMR	7 KB 4 Kw	RW	256	HEF	1.8–5.5V	20 MHz	16 MHz	-	12	-	-	2	-	-	-	-	4/0	-	-	1/0	1	-	2/1	-	-	-	✓	-	-	-	-	-	PB0R	SW	1/0	1	-	2	-	-	-	\$0.77	PDIP (P), SOIC (SO), SSOP (SS), 4 x 4 QFN (ML), 4 x 4 UQFN (GZ)			
	PIC16F1707 ^{MLP}	R	20	18	EMR	3.5 KB 2 Kw	RW	256	HEF	1.8–5.5V	32 MHz	16 MHz	-	8	-	-	0	-	-	-	2	-	✓	-	-	2/0	-	-	0/0	-	-	2/1	-	-	✓	-	-	-	-	-	POR/LPBOR	-	-	1	-	8	-	✓	-	\$0.77	PDIP (P), 4 x 4 QFN (ML), SOIC (SO), SSOP (SS)
	PIC16F1509 ^{MLP}	R	20	18	EMR	14 KB 8 Kw	RW	512	HEF	1.8–5.5V	20 MHz	16 MHz	-	12	-	-	2	-	-	-	-	4/0	-	-	1/0	1	-	2/1	-	-	-	✓	4	-	-	-	-	PB0R	SW	1/0	1	-	2	-	-	-	\$0.81	PDIP (P), SOIC (SO), SSOP, 4 x 4 QFN (ML), 4 x 4 UQFN (GZ)			
	PIC16F1708 ^{MLP}	R	20	18	EMR	7 KB 4 Kw	RW	512	HEF	1.8–5.5V	32 MHz	16 MHz	-	12	-	-	2	0/1/0/0	-	2	-	✓	-	2/0	2	-	-	0/1	-	-	4/1	-	-	-	✓	3	-	-	-	-	POR/LPBOR	-	1/0	1	-	12	-	✓	-	\$0.83	PDIP (P), 4 x 4 QFN (ML), SOIC (SO), SSOP (SS)
	PIC16F18346 ^{MLP}	R	20	18	EMR	28 KB 16 Kw	RW	512	256	1.8–5.5V	32 MHz	32 MHz, 31 kHz	-	17	-	-	2	1/0/0/0	-	-	-	-	2/0	4	-	-	2/0	1	1	4/3	-	-	-	✓	4	-	-	-	-	PB0R/POR/LPBOR	-	1/0	2	-	11	-	✓	✓	\$0.84	TSSOP (ST), SOIC (SL), UQFN (JQ), PDIP (P)	
	PIC16F1619 ^{MLP}	R	20	18	EMR	14 KB 8 Kw	RW	1K	HEF	1.8–5.5V	32 MHz	32 MHz, 31 kHz	-	12	-	-	2	0/1/0/0	100	-	-	✓	-	2/0	2	-	-	1/0	-	-	3/1	✓	✓	2	✓	4	-	✓	✓	PB0R	-	1/0	1	-	12	-	✓	-	\$0.85	PDIP (P), SSOP (SS), SOIC (SO), 5 x 5 QFN (MQ)	
	PIC16F1709 ^{MLP}	R	20	18	EMR	14 KB 8 Kw	RW	1K	HEF	1.8–5.5V	32 MHz	16 MHz	-	12	-	-	2	0/1/0/0	-	2	-	✓	-	2/0	2	-	-	0/1	-	-	4/1	-	-	-	✓	3	-	-	-	-	POR/LPBOR	-	1/0	1	-	12	-	✓	-	\$0.88	PDIP (P), 4 x 4 QFN (ML), SOIC (SO), SSOP (SS)
	PIC16F1828 ^{MLP}	R	20	18	EMR	7 KB 4 Kw	RW	256	256	1.8–5.5V	32 MHz	32 MHz, 31 kHz	-	12	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.99	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)										

Products sorted by pin count followed by pricing

[†] Pricing subject to change; please contact your Microchip representative for most current pricing.

◊ Software PLVD implemented via ADC.

* Usable as a General Purpose Timer.
XLP[®] xTreme Low Power variants available.

Product		Released (R) / Not Released (NR)	Pins	Core	Memory			Operating Speed	Intelligent Analog				Waveform Control			Timing and Measurements		Logic and Math		Safety and Monitoring		Comm.	Human Interface	Low Power and System Flexibility	Packages (Designator)																																		
					Total	I/O	Program		8-bit ADC	10-bit ADC	12-bit ADC	ADC ^a	Comparators	DAC (5b/8b/9b/10b)	HC I/O (mA)	Op Amp	PRG/SlopeComp	ZCD	CTMU	PWM (10b/16b)*	COP (10b PWM)	ECOP (10b PWM)	PSMC (16b PWM)*	CWG/COG	NCO*	DSM	8-/16-bit Timer	HLT	AugTMR	SMT	Temp. Indicator	CLC	Hardware Multiply	MatAcc	CRC/SCAN	WWDT	Resets	PLVD	EUUART/AUUART	I ^b C/SPI	USB 2.0 Device	mTouch [®] Channels	LCD Segments	PPS	Idle/PMD	Doze	5 Ku Pricing ^c												
20-Pin (Cont.)	PIC16F1829	R	20	18	EMR	14 KB 8 Kw	RW	1K	256	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	12	-	-	2	-	-	-	-	-	2	2	100	2	2	✓	-	3/3	3	-	-	0/2	-	2	4/3	✓	-	-	✓	3	-	-	-	-	-	BOR	SW ^d	1/0	2	-	12	-	-	-	-	\$1.06	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)
	PIC16F1768	R	20	18	EMR	7 KB 4 Kw	RW	512	HEF	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	12	-	-	4	2/0/0/2	100	2	2	✓	-	3/3	3	-	-	0/2	-	2	4/3	✓	-	-	✓	3	-	-	-	-	-	POR/LPBOR	-	1/0	1	-	12	-	-	✓	-	\$1.16	PDIP (P), SSOP (SS), SOIC (SO), 4 x 4 QFN (MQ)						
	PIC16F1459	R	20	18	EMR	14 KB 8 Kw	RW	1K	-	1.8-5.5V	48 MHz	48 MHz, 31 kHz	-	9	-	-	2	-	-	-	-	-	2/0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$1.18	PDIP (P), SOIC (SO), SSOP (SS), 4 x 4 QFN (ML)															
	PIC16F1769	R	20	18	EMR	14 KB 8 Kw	RW	1K	HEF	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	12	-	-	4	2/0/0/2	100	2	2	✓	-	4/4	4	-	-	0/2	-	2	4/3	✓	-	-	✓	3	-	-	-	-	-	POR/LPBOR	-	1/0	1	-	12	-	-	✓	-	\$1.24	PDIP (P), SSOP (SS), SOIC (SO), 4 x 4 QFN (MQ)						
	PIC18F13K22	R	20	18	PIC18	8 KB 4 Kw	RW	256	256	1.8-5.5V	64 MHz	64 MHz, 31 kHz	-	12	-	-	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$1.33	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)																	
	PIC18F13K50	R	20	15	PIC18	8 KB 4 Kw	RW	512	256	1.8-5.5V	48 MHz	32 MHz, 31 kHz	-	9	-	-	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$1.39	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)																		
	PIC18F14K22	R	20	18	PIC18	16 KB 8 Kw	RW	512	256	1.8-5.5V	64 MHz	64 MHz, 31 kHz	-	12	-	-	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$1.47	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)																		
	PIC18F14K50	R	20	15	PIC18	16 KB 8 Kw	RW	768	256	1.8-5.5V	48 MHz	32 MHz, 31 kHz	-	9	-	-	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$1.53	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)																			
28-Pin	PIC16F15354	NR	28	25	EMR	7 KB 4 Kw	RW	512	-	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	24	-	-	2	1/0/0/0	-	-	-	✓	-	4/0	2	-	-	1/0	1	-	1/2	✓	-	-	✓	4	-	-	-	✓	✓	LPBOR/POR	-	2/0	2	-	-	-	-	✓	✓	call for pricing	SOIC (SO), SSOP (SS), SPDIP (SP), 6 x 6 QFN (ML), 4 x 4 UQFN (MV)						
	PIC16F15355	NR	28	25	EMR	14 KB 8 Kw	RW	1K	-	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	24	-	-	2	1/0/0/0	-	-	-	✓	-	4/0	2	-	-	1/0	1	-	1/2	✓	-	-	✓	4	-	-	✓	✓	✓	LPBOR/POR	-	2/0	2	-	-	-	-	✓	✓	call for pricing	SOIC (SO), SSOP (SS), SPDIP (SP), 6 x 6 QFN (ML), 4 x 4 UQFN (MV)						
	PIC16F15356	NR	28	25	EMR	28 KB 16 Kw	RW	256	-	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	24	-	-	2	1/0/0/0	-	-	-	✓	-	4/0	2	-	-	1/0	1	-	1/2	✓	-	-	✓	4	-	-	✓	✓	✓	LPBOR/POR	-	2/0	2	-	-	-	-	✓	✓	call for pricing	SOIC (SO), SSOP (SS), SPDIP (SP), 6 x 6 QFN (ML), 4 x 4 UQFN (MV)						
	PIC18F24K40	NR	28	25	PIC18	16 KB 8 Kw	RW	1K	256	1.8-5.5V	64 MHz	64 MHz, 31 kHz	-	24	-	✓	2	1/0/0/0	-	-	-	✓	-	2/0	2	-	-	1/0	-	1	4/3	✓	-	-	✓	-	✓	POR/PBOR/LPBOR	✓	1/0	1	-	24	-	-	✓	✓	call for pricing	SOIC (SO), SPDIP (SP), SSOP (SS), QFN (ML), 4 x 4 UQFN (MV)										
	PIC18F25K40	NR	28	25	PIC18	32 KB 16 Kw	RW	2K	256	1.8-5.5V	64 MHz	64 MHz, 31 kHz	-	24	-	✓	2	1/0/0/0	-	-	-	✓	-	2/0	2	-	-	1/0	-	1	4/3	✓	-	-	✓	-	✓	POR/PBOR/LPBOR	✓	1/0	1	-	24	-	-	✓	✓	call for pricing	SOIC (SO), SPDIP (SP), SSOP (SS), QFN (ML), 4 x 4 UQFN (MV)										
	PIC18F26K40	NR	28	25	PIC18	64 KB 32 Kw	RW	4K	1K	1.8-5.5V	64 MHz	64 MHz, 31 kHz	-	24	-	✓	2	1/0/0/0	-	-	-	✓	-	2/0	2	-	-	1/0	-	1	4/3	✓	-	-	✓	-	✓	POR/PBOR/LPBOR	✓	2/0	2	-	24	-	-	✓	✓	call for pricing	SOIC (SO), SPDIP (SP), SSOP (SS), QFN (ML), 6 x 6 QFN (ML)										
	PIC18F27K40	NR	28	25	PIC18	128 KB 64 Kw	RW	4K	1K	1.8-5.5V	64 MHz	64 MHz, 31 kHz	-	24	-	✓	2	1/0/0/0	-	-	-	✓	-	2/0	2	-	-	1/0	-	1	4/3	✓	-	-	✓	-	✓	POR/PBOR/LPBOR	✓	2/0	2	-	24	-	-	✓	✓	call for pricing	SOIC (SO), SPDIP (SP), SSOP (SS), 6 x 6 QFN (ML)										
	PIC16F57	R	28	20	BL	3 KB 2 Kw	-	72	-	2-5.5V	20 MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.52	SPDIP (SP), SOIC (SO), SSOP (SS)																		
	PIC16F570	R	28	25	BL	3 KB 2 Kw	RW	132	64	2-5.5V	20 MHz	8 MHz	8	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.60	SPDIP (SP), 6 x 6 QFN (ML), SSOP (SS), SOIC (SO)																					

Products sorted by pin count followed by pricing.

† Pricing subject to change; please contact your Microchip representative for most current pricing.

◊ Software PLVD implemented via ADC.

* Usable as a General Purpose Timer.

‡ eXtreme Low Power variants available.

8-BIT PIC® MICROCONTROLLERS

Product	Released (R) / Not Released (NR)		Pins Total I/O	Core	Memory			Voltage Range	Operating Speed	Intelligent Analog				Waveform Control			Timing and Measurements		Logic and Math		Safety and Monitoring		Comm.		Human Interface		Low Power and System Flexibility		Packages (Designator)																			
	Total	I/O			Program	Self-Read/Write	Data RAM (B)			Maximum Speed	Internal Oscillator	8-bit ADC	10-bit ADC	12-bit ADC	ADC ^a	Comparators	DAC (5b/8b/9b/10b)	HC I/O (mA)	Op Amp	PRG/SlopeComp	ZCD	CTMU	PWM (10b/16b)*	COP (10b PWM)	ECOP (10b PWM)	PSMC (16b PWM) ^b	CWG/COG	NCO*	DSM	8-/16-bit Timer	HLT	AnglIMR	SMT	Temp. Indicator	CLC	Hardware Multiply	MatAcc	CRC/SCAN	WWDT	Resets	PLVD	EUUART/AUUART	I ^c -SPI	USB 2.0 Device	mTouch® Channels	LCD Segments	PPS	IDE/PMD
PIC16F722A ^d	R	28	25	MR	3.5 KB 2 Kw	R	128	-	1.8-5.5V	20 MHz	16 MHz	11	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	BOR	SW0	0/1	1	-	11	-	-	-	\$0.78	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML), 4 x 4 UQFN (MV)					
PIC16LF1902 ^d	R	28	25	EMR	3.5 KB 2 Kw	RW	128	-	1.8-3.6V	20 MHz	16 MHz	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.78	SPDIP (SP), SOIC (SO), SSOP (SS), 4 x 4 UQFN (MV)												
PIC16F1512 ^d	R	28	25	EMR	3.5 KB 2 Kw	RW	128	HEF	1.8-5.5V	20 MHz	16 MHz, 31 kHz	-	17	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	PBOR	SW	1/0	1	-	17	-	-	-	\$0.81	SPDIP (SP), SOIC (SO), SSOP (SS), 4 x 4 UQFN (MV)					
PIC16LF1566 ^d	R	28	25	EMR	14 KB 8 Kw	RW	1K	HEF	1.8-3.6V	32 MHz	16 MHz	-	2x 24	-	-	-	-	-	-	-	-	-	2/0	-	-	-	-	-	-	-	-	-	POR/ PBOR/ LPBOR	-	1/0	2	-	2x 24	-	-	-	\$0.84	SOIC (SO), SPDIP (SP), SSOP (SS), QFN (ML), 4 x 4 UQFN (MV)					
PIC16F723A ^d	R	28	25	MR	7 KB 4 Kw	R	192	-	1.8-5.5V	20 MHz	16 MHz	11	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	BOR	SW0	0/1	1	-	11	-	-	-	\$0.85	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML), 4 x 4 UQFN (MV)					
PIC16LF1903 ^d	R	28	25	EMR	7 KB 4 Kw	RW	256	-	1.8-3.6V	20 MHz	16 MHz	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.85	SPDIP (SP), SOIC (SO), SSOP (SS), 4 x 4 UQFN (MV)														
PIC16F1513 ^d	R	28	25	EMR	7 KB 4 Kw	RW	256	HEF	1.8-5.5V	20 MHz	16 MHz, 31 kHz	-	17	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	PBOR	SW	1/0	1	-	17	-	-	-	\$0.88	SPDIP (SP), SOIC (SO), SSOP (SS), 4 x 4 UQFN (MV)					
PIC16LF1906 ^d	R	28	25	EMR	14 KB 8 Kw	RW	512	-	1.8-3.6V	20 MHz	16 MHz	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.91	SPDIP (SP), SOIC (SO), SSOP (SS), 4 x 4 UQFN (MV)														
PIC16F1713 ^d	R	28	25	EMR	7 KB 4 Kw	RW	512	HEF	1.8-5.5V	32 MHz	16 MHz	-	17	-	-	2	1/1/0/0	-	2	-	✓	-	2/0	2	-	0/1	1	-	4/1	-	-	-	✓	4	-	-	POR/ LPBOR	-	1/0	1	-	17	-	✓	-	\$0.92	SOIC (SO), SSOP (SS), SPDIP (SP), 6 x 6 QFN (ML), 4 x 4 UQFN (MV)	
PIC16F1516 ^d	R	28	25	EMR	14 KB 8 Kw	RW	512	HEF	1.8-5.5V	20 MHz	16 MHz	-	17	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	PBOR	SW	1/0	1	-	17	-	-	-	\$0.95	SPDIP (SP), SOIC (SO), SSOP (SS), 4 x 4 UQFN (MV)					
PIC16F1716 ^d	R	28	25	EMR	14 KB 8 Kw	RW	1K	HEF	1.8-5.5V	32 MHz	16 MHz	-	17	-	-	2	1/1/0/0	-	2	-	✓	-	2/0	2	-	0/1	1	-	4/1	-	-	✓	4	-	-	POR/ LPBOR	-	1/0	1	-	17	-	✓	-	\$0.98	SOIC (SO), SSOP (SS), SPDIP (SP), 6 x 6 QFN (ML), 4 x 4 UQFN (MV)		
PIC16F1518 ^d	R	28	25	EMR	28 KB 16 Kw	RW	1K	HEF	1.8-5.5V	20 MHz	16 MHz	-	17	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	PBOR	SW	1/0	1	-	17	-	-	-	\$1.01	SPDIP (SP), SOIC (SO), SSOP (SS), 4 x 4 UQFN (MV)					
PIC16F1718 ^d	R	28	25	EMR	28 KB 16 Kw	RW	2K	HEF	1.8-5.5V	32 MHz	16 MHz	-	17	-	-	2	1/1/0/0	-	2	-	✓	-	2/0	2	-	0/1	1	-	4/1	-	-	✓	4	-	-	POR/ LPBOR	-	1/0	1	-	17	-	✓	-	\$1.05	SOIC (SO), SSOP (SS), SPDIP (SP), 6 x 6 QFN (ML), 4 x 4 UQFN (MV)		
PIC16F18854 ^d	NR	28	25	EMR	7 KB 4 Kw	RW	512	256	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	24	-	✓	2	1/0/0/0	-	-	-	✓	-	2/0	5	-	3/0	1	1	4/3	✓	-	2	✓	4	-	-	✓	POR/ LPBOR	-	1/0	2	-	-	-	✓	✓	\$1.12	SPDIP (SP), SSOP (SS), SOIC (SO), 5 x 5 QFN (MQ), 4 x 4 UQFN (MV)
PIC16F18855 ^d	R	28	25	EMR	14 KB 8 Kw	RW	1K	256	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	24	-	✓	2	1/0/0/0	-	-	-	✓	-	2/0	5	-	3/0	1	1	4/3	✓	-	2	✓	4	-	-	✓	POR/ LPBOR	-	1/0	2	-	-	-	✓	✓	\$1.19	SPDIP (SP), SSOP (SS), SOIC (SO), 6 x 6 QFN (MQ), 4 x 4 UQFN (MV)

Products sorted by pin count followed by pricing.

† Pricing subject to change; please contact your Microchip representative for most current pricing.

◊ Software PLVD implemented via ADC.

* Usable as a General Purpose Timer.

‡ eXtreme Low Power variants available.

Product		Released (R)/Not Released (NR)		Core	Memory			Voltage Range	Operating Speed		Intelligent Analog				Waveform Control			Timing and Measurements		Logic and Math		Safety and Monitoring		Comm.		Human Interface		Low Power and System Flexibility		Packages (Designator)																					
		Total	I/O		Program	Self-Read/Write	Data RAM (B)		Maximum Speed	Internal Oscillator	8-bit ADC	10-bit ADC	12-bit ADC	ADC ^a	Comparators	DAC (5b/8b/9b/10b)	HC I/O (mA)	Op Amp	PRG/SlopeComp	ZCD	CTMU	PWM (10b/16b)*	CCP (10b PWM)	ECAP (10b PWM)	PSIMC (16b PWM)*	CV/G/COG	NCO*	DSM	B/16-bit Timer	HLT	AngTMR	SMT	Temp. Indicator	CLC	Hardware Multiply	MatAcc	CRC/SCAN	WWDT	Resets	PLVD	EUUSART/AUSART	I ^b C/SPI	USB 2.0 Device	mTouch [®] Channels	LCD Segments	PPS	IDLE/PMD	D0ZE	5 Ku Pricing ^c		
28-Pin (Cont.)	PIC16F1782 ^d	R	28	25	EMR	3.5 KB 2 Kw	RW	256	256	1.8–5.5V	32 MHz	32 MHz	–	–	11	–	3	0/1/0/0	–	2	–	–	–	–	–	–	2/1	–	–	✓	–	–	–	–	–	–	\$1.23	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML), 4 x 4 UQFN (MV)													
	PIC16F1933 ^d	R	28	25	EMR	7 KB 4 Kw	RW	256	256	1.8–5.5V	32 MHz	32 MHz, 31 kHz	–	11	–	–	2	–	–	–	–	–	2	3	–	–	–	4/1	–	–	–	✓	–	–	–	–	–	\$1.23	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML), 4 x 4 UQFN (MV)												
	PIC18F23K20 ^d	R	28	25	PIC18	8 KB 4 Kw	RW	512	256	1.8–3.6V	64 MHz	16 MHz, 31 kHz	–	11	–	–	2	–	–	–	–	–	1	1	–	–	–	1/3	–	–	–	–	✓	–	–	–	–	\$1.23	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML), 4 x 4 UQFN (MV)												
	PIC16F18856 ^d	NR	28	25	EMR	28 KB 16 Kw	RW	2K	256	1.8–5.5V	32 MHz	32 MHz, 31 kHz	–	24	–	✓	2	1/0/0/0	–	–	–	✓	–	2/0	5	–	–	3/0	1	1	4/3	✓	–	2	✓	4	–	–	✓	✓	✓	\$1.27	SPDIP (SP), SOIC (SO), SSOP (SS), 5 x 5 QFN (ML), 4 x 4 UQFN (MV)								
	PIC16F1783 ^d	R	28	25	EMR	7 KB 4 Kw	RW	512	256	1.8–5.5V	32 MHz	32 MHz	–	–	11	–	3	0/1/0/0	–	2	–	–	–	2	–	–	–	–	2/1	–	–	–	✓	–	–	–	–	–	\$1.30	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML), 4 x 4 UQFN (MV)											
	PIC16F1936 ^d	R	28	25	EMR	14 KB 8 Kw	RW	512	256	1.8–5.5V	32 MHz	32 MHz, 31 kHz	–	11	–	–	2	–	–	–	–	–	2	3	–	–	–	4/1	–	–	–	✓	–	–	–	–	–	\$1.30	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML), 4 x 4 UQFN (MV)												
	PIC18F24K20 ^d	R	28	25	PIC18	16 KB 8 Kw	RW	768	256	1.8–3.6V	64 MHz	16 MHz, 31 kHz	–	11	–	–	2	–	–	–	–	–	1	1	–	–	–	1/3	–	–	–	–	✓	–	–	–	–	\$1.30	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML)												
	PIC16F18857 ^d	NR	28	25	EMR	56 KB 32 Kw	RW	4K	256	1.8–5.5V	32 MHz	32 MHz, 31 kHz	–	24	–	✓	2	1/0/0/0	–	–	–	✓	–	2/0	5	–	–	3/0	1	1	4/3	✓	–	2	✓	4	–	–	✓	✓	✓	\$1.37	SPDIP (SP), SSOP (SS), SOIC (SO), 5 x 5 QFN (ML), 4 x 4 UQFN (MV)								
	PIC16F1786 ^d	R	28	25	EMR	14 KB 8 Kw	RW	1K	256	1.8–5.5V	32 MHz	32 MHz	–	–	11	–	4	0/1/0/0	–	2	–	–	–	3	–	3	–	–	2/1	–	–	–	✓	–	–	–	–	–	\$1.37	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML)											
	PIC16F1938 ^d	R	28	25	EMR	28 KB 16 Kw	RW	1K	256	1.8–5.5V	32 MHz	32 MHz, 31 kHz	–	11	–	–	2	–	–	–	–	–	2	3	–	–	–	4/1	–	–	–	✓	–	–	–	–	–	\$1.37	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML), 4 x 4 UQFN (MV)												
	PIC18F25K20 ^d	R	28	25	PIC18	32 KB 16 Kw	RW	1536	256	1.8–3.6V	64 MHz	16 MHz, 31 kHz	–	11	–	–	2	–	–	–	–	–	1	1	–	–	–	1/3	–	–	–	–	✓	–	–	–	–	\$1.37	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML)												
	PIC16F1773 ^d	R	28	25	EMR	7 KB 4 Kw	RW	512	HEF	1.8–5.5V	32 MHz	32 MHz, 31 kHz	–	17	–	✓	6	3/0/0/3	100	3	3	✓	–	3/3	3	–	–	3/0	–	3	5/3	✓	–	–	✓	4	–	–	–	POR/PBOR/LPBOR	–	1/0	1	–	17	–	✓	–	–	\$1.41	SDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML)
	PIC18F23K22 ^d	R	28	25	PIC18	8 KB 4 Kw	RW	512	256	1.8–5.5V	64 MHz	16 MHz, 31 kHz	–	17	–	–	2	–	–	–	–	✓	–	1	1	–	–	–	0/3	–	–	–	–	✓	–	–	–	–	\$1.41	SDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML), 4 x 4 UQFN (MV)											
	PIC18F24J10	R	28	21	PIC18	16 KB 8 Kw	RW	1K	–	2–3.6V	40 MHz	32 kHz	–	10	–	–	2	–	–	–	–	2	–	–	–	–	0/2	–	–	–	–	✓	–	–	–	–	\$1.44	SPDIP (SP), SOIC (SO), QFN (ML)													
	PIC16F1788 ^d	R	28	25	EMR	28 KB 16 Kw	RW	2K	256	1.8–5.5V	32 MHz	32 MHz	–	–	11	–	4	3/1/0/0	–	2	–	–	–	3	–	4	–	–	2/1	–	–	✓	4	–	–	–	–	\$1.44	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML)												
	PIC16F1776 ^d	R	28	25	EMR	14 KB 8 Kw	RW	1K	HEF	1.8–5.5V	32 MHz	32 MHz, 31 kHz	–	17	–	–	6	3/0/0/3	100	3	3	✓	–	3/3	3	–	–	3/0	–	3	5/3	✓	–	–	✓	4	–	–	–	POR/PBOR/LPBOR	–	1/0	1	–	17	–	✓	–	–	\$1.48	SDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML), 4 x 4 UQFN (MX)
	PIC18F24K22 ^d	R	28	25	PIC18	16 KB 8 Kw	RW	768	256	1.8–5.5V	64 MHz	16 MHz, 31 kHz	–	17	–	–	2	–	–	–	–	✓	–	1	1	–	–	–	0/3	–	–	–	–	✓	–	–	–	–	\$1.48	SDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML), 4 x 4 UQFN (MV)											

Products sorted by pin count followed by pricing.

^a Pricing subject to change; please contact your Microchip representative for most current pricing.^b Software PLVD implemented via ADC.^c Useable as a General Purpose Timer.^d eXtreme Low Power variants available.

8-BIT PIC® MICROCONTROLLERS

Product	Released (R) / Not Released (NR)		Pins Total I/O	Core	Memory			Operating Speed	Intelligent Analog				Waveform Control			Timing and Measurements		Logic and Math		Safety and Monitoring		Comm.	Human Interface	Low Power and System Flexibility	5 ku Pricing ^f	Packages (Designator)																								
	Program	Self-Read/Write			Data RAM (B)	Data EE (B)	Voltage Range		8-bit ADC	10-bit ADC	12-bit ADC	ADC ^c	Comparators	DAC (5b/8b/9b/10b)	HQ I/O (mA)	Op Amp	PRG/SlopeComp	ZCD	CTMU	PWM (10b/16b)*	COP (10b PWM)	ECOP (10b PWM)	PSMC (16b PWM) ^k	CWG/COG	I/O*	DSM	8-/16-bit Timer	HLT	AngTMR	SMT	Temp. Indicator	CLC	Hardware Multiply	MatAcc	CRC/SCAN	WWDT	Resets	PLVD	EUSART/AUSART	I ^e C/SPI	USB 2.0 Device	mTouch® Channels	LCD Segments	PPS	IDLE/PMD	DOZE				
28-Pin (Cont.)	PIC16F1778 ^g	R	28	25	EMR	28 KB 16 Kw	RW	2K	HEF	1.8–5.5V	32 MHz	32 MHz, 31 kHz	-	17	-	-	6	3/0/0/3	100	3	3	✓	-	3/3	3	-	-	3	5/3	✓	-	-	✓	-	-	-	-	POR/ PBOR/ LPBOR	-	1/0	1	-	17	-	✓	-	\$1.57	SDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (MX)		
	PIC18F25J10	R	28	21	PIC18	32 KB 16 Kw	RW	1K	-	2–3.6V	40 MHz	32 kHz	-	10	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BOR	-	1/0	1	-	10	-	-	-	\$1.58	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)					
	PIC18F25K22 ^g	R	28	25	PIC18	32 KB 16 Kw	RW	1536	256	1.8–5.5V	64 MHz	16 MHz, 31 kHz	-	17	-	-	2	-	-	-	-	-	✓	-	2	3	-	-	-	0/4	-	-	-	-	✓	-	-	-	-	PBOR	✓	2/0	2	-	17	-	-	-	\$1.62	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML)
	PIC18F24J11	R	28	21	PIC18	16 KB 8 Kw	RW	3800	-	2–3.6V	48 MHz	8 MHz, 31 kHz	-	10	-	-	2	-	-	-	-	-	✓	-	-	2	-	-	-	0/3	-	-	-	-	✓	-	-	-	-	BOR	SW ^h	2/0	2	-	10	-	-	-	\$1.65	SPDIP (SP), SOIC (SO), QFN (ML)
	PIC18F24K50 ^g	R	28	25	PIC18	16 KB 8 Kw	RW	2K	256	1.8–5.5V	48 MHz	48 MHz	-	14	-	-	2	-	-	-	-	-	✓	-	1	1	-	-	-	2/2	-	-	-	-	✓	-	-	-	-	BOR	-	1/0	1	✓	14	-	-	-	\$1.65	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML)
	PIC18F26K20 ^g	R	28	25	PIC18	64 KB 32 Kw	RW	3936	1K	1.8–3.6V	64 MHz	16 MHz, 31 kHz	-	11	-	-	2	-	-	-	-	-	-	1	1	-	-	-	0/3	-	-	-	-	✓	-	-	-	-	PBOR	✓	1/0	1	-	11	-	-	-	\$1.65	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML)	
	PIC18F25K50 ^g	R	28	25	PIC18	16 KB 16 Kw	RW	2K	256	1.8–5.5V	48 MHz	48 MHz	-	14	-	-	2	-	-	-	-	-	✓	-	1	1	-	-	-	2/2	-	-	-	-	✓	-	-	-	-	BOR	-	1/0	1	✓	14	-	-	-	\$1.76	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML)
	PIC18F25J11	R	28	21	PIC18	32 KB 16 Kw	RW	3800	-	2–3.6V	48 MHz	8 MHz, 31 kHz	-	10	-	-	2	-	-	-	-	-	✓	-	-	2	-	-	-	0/3	-	-	-	-	✓	-	-	-	-	BOR	SW ^h	2/0	2	-	10	-	-	-	\$1.79	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)
	PIC18F24J50	R	28	22	PIC18	16 KB 8 Kw	RW	3800	-	2–3.6V	48 MHz	8 MHz, 31 kHz	-	10	-	-	2	-	-	-	-	-	✓	-	-	2	-	-	-	2/3	-	-	-	-	✓	-	-	-	-	BOR	SW ^h	2/0	2	✓	10	-	-	-	\$1.86	SPDIP (SP), SOIC (SO), QFN (ML)
	PIC18F26K22 ^g	R	28	25	PIC18	64 KB 32 Kw	RW	3896	1K	1.8–5.5V	64 MHz	16 MHz, 31 kHz	-	17	-	-	2	-	-	-	-	-	✓	-	2	3	-	-	-	3/4	-	-	-	-	✓	-	-	-	-	PBOR	✓	2/0	2	-	17	-	-	-	\$1.92	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML)
	PIC18F25K80 ^g	R	28	24	PIC18	32 KB 16 Kw	RW	3648	1K	1.8–5.5V	64 MHz	8 MHz, 31 kHz	-	8	-	-	2	-	-	-	-	-	✓	-	4	1	-	-	-	2/3	-	-	-	-	✓	-	-	-	-	PBOR	✓	2/0	1	-	8	-	-	-	\$1.93	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)
	PIC18F25J50	R	28	22	PIC18	32 KB 16 Kw	RW	3800	-	2–3.6V	48 MHz	8 MHz, 31 kHz	-	10	-	-	2	-	-	-	-	-	✓	-	2	-	-	-	-	2/3	-	-	-	-	✓	-	-	-	-	BOR	SW ^h	2/0	2	✓	10	-	-	-	\$2.00	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)
	PIC18F26J11	R	28	21	PIC18	64 KB 32 Kw	RW	3800	-	2–3.6V	48 MHz	8 MHz, 31 kHz	-	10	-	-	2	-	-	-	-	-	✓	-	2	-	-	-	-	2/3	-	-	-	-	✓	-	-	-	-	BOR	SW ^h	2/0	2	-	10	-	-	-	\$2.07	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)
	PIC18F26K80 ^g	R	28	24	PIC18	64 KB 32 Kw	RW	3648	1K	1.8–5.5V	64 MHz	8 MHz, 31 kHz	-	8	-	-	2	-	-	-	-	-	✓	-	4	1	-	-	-	2/3	-	-	-	-	✓	-	-	-	-	PBOR	✓	2/0	1	-	8	-	-	-	\$2.21	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)
	PIC18F26J13	R	28	23	PIC18	64 KB 32 Kw	RW	3808	-	2–3.6V	48 MHz	8 MHz, 31 kHz	-	10	-	-	3	-	-	-	-	-	✓	-	7	3	-	-	-	4/4	-	-	-	-	✓	-	-	-	-	BOR	✓	2/0	2	-	10	-	-	-	\$2.24	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)
	PIC18F26J50	R	28	22	PIC18	64 KB 32 Kw	RW	3800	-	2–3.6V	48 MHz	8 MHz, 31 kHz	-	10	-	-	2	-	-	-	-	-	✓	-	2	-	-	-	-	2/3	-	-	-	-	✓	-	-	-	-	BOR	SW ^h	2/0	2	✓	10	-	-	-	\$2.28	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)
	PIC18F26J53	R	28	22	PIC18	64 KB 32 Kw	RW	3808	-	2–3.6V	48 MHz	8 MHz, 31 kHz	-	10	-	-	3	-	-	-	-	-	✓	-	7	3	-	-	-	4/4	-	-	-	-	✓	-	-	-	-	BOR	✓	2/0	2	✓	10	-	-	-	\$2.45	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)
	PIC18F27J13	R	28	23	PIC18	128 KB 64 Kw	RW	3808	-	2–3.6V	48 MHz	8 MHz, 31 kHz	-	10	-	-	3	-	-	-	-	-	✓	-	7	3	-	-	-	4/4	-	-	-	-	✓	-	-	-	-	BOR	✓	2/0	2	-	10	-	-	-	\$2.48	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)
	PIC18F27J53	R	28	22	PIC18	128 KB 64 Kw	RW	3808	-	2–3.6V	48 MHz	8 MHz, 31 kHz	-	10	-	-	3	-	-	-	-	-	✓	-	7	3	-	-	-	4/4	-	-	-	-	✓	-	-	-	-	BOR	✓	2/0	2	✓	10	-	-	-	\$2.69	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)

Products sorted by pin count followed by pricing.

^f Pricing subject to change; please contact your Microchip representative for most current pricing.^g Software PLVD implemented via ADC.^{*} Usable as a General Purpose Timer.^h eXtreme Low Power variants available.

Product		Released (R) / Not Released (NR)		Memory	Operating Speed	Intelligent Analog				Waveform Control			Timing and Measurements		Logic and Math		Safety and Monitoring		Comm.		Human Interface	Low Power and System Flexibility	Packages (Designator)																											
		Pins	Total I/O			Core	Self-Read/Write	Data RAM (B)	Data EEPROM (B)	Voltage Range	Maximum Speed	Internal Oscillator	8-bit ADC	10-bit ADC	12-bit ADC	ADC ^c	Comparators	DAC (5b/8b/9b/10b)	HC I/O (mA)	Op Amp	PRG/SlopeComp	ZCD	CTMU	PW/M (10b/16b)*	CCP (10b PWM)	ECFC (10b PWM)	PSMC (16b PWM) ^x	CWG/COG	NCO*	DSM	8-/16-bit Timer	HT	Ang/TMR	SMT	Temp. Indicator	CLC	Hardware Multiply	MacACC	CRC/SCAN	WWDT	Resets	PLVD	EUART/AUSART	I ^c /SPI	USB 2.0 Device	mTouch [®] Channels	LCD Segments	PPS	IDLE/PMD	DOZE
		Program	Core	Self-Read/Write	Data RAM (B)	Data EEPROM (B)	Voltage Range	Maximum Speed	Internal Oscillator	8-bit ADC	10-bit ADC	12-bit ADC	ADC ^c	Comparators	DAC (5b/8b/9b/10b)	HC I/O (mA)	Op Amp	PRG/SlopeComp	ZCD	CTMU	PW/M (10b/16b)*	CCP (10b PWM)	ECFC (10b PWM)	PSMC (16b PWM) ^x	CWG/COG	NCO*	DSM	8-/16-bit Timer	HT	Ang/TMR	SMT	Temp. Indicator	CLC	Hardware Multiply	MacACC	CRC/SCAN	WWDT	Resets	PLVD	EUART/AUSART	I ^c /SPI	USB 2.0 Device	mTouch [®] Channels	LCD Segments	PPS	IDLE/PMD	DOZE			
40/44/48-Pin	PIC16F15375 ^d	NR	40	36	EMR	14 KB 8 Kw	RW	1K	-	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	35	-	-	2	1/0/0/0	-	-	-	✓	-	4/0	2	-	-	1/0	1	-	1/2	✓	-	-	✓	4	-	-	✓	✓	✓	call for pricing	PDIP (P), TQFP (PT), 8x8 QFN (ML), 5x5 UQFN (MV)							
	PIC16F15376 ^d	NR	40	36	EMR	28 KB 16 Kw	RW	2K	-	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	35	-	-	2	1/0/0/0	-	-	-	✓	-	4/0	2	-	-	1/0	1	-	1/2	✓	-	-	✓	4	-	-	✓	✓	✓	call for pricing	PDIP (P), TQFP (PT), 8x8 QFN (ML), 5x5 UQFN (MV)							
	PIC18F45K40 ^d	NR	40	36	PIC18	32 KB 16 Kw	RW	2K	256	1.8-5.5V	64 MHz	64 MHz, 31 kHz	-	35	-	✓	2	1/0/0/0	-	-	-	✓	-	2/0	2	-	-	1/0	-	1	4/3	✓	-	-	✓	-	✓	✓	✓	✓	call for pricing	TQFP (PT), QFN (ML), PDIP (P), 5x5 UQFN (MV)								
	PIC18F46K40 ^d	NR	40	36	PIC18	64 KB 32 Kw	RW	4K	1K	1.8-5.5V	64 MHz	64 MHz, 31 kHz	-	35	-	✓	2	1/0/0/0	-	-	-	✓	-	2/0	2	-	-	1/0	-	1	4/3	✓	-	-	✓	-	✓	✓	call for pricing	TQFP (PT), QFN (ML), PDIP (P), 5x5 UQFN (MV)										
	PIC18F47K40 ^d	NR	40	36	PIC18	128 KB 64 Kw	RW	4K	1K	1.8-5.5V	64 MHz	64 MHz, 31 kHz	-	35	-	✓	2	1/0/0/0	-	-	-	✓	-	2/0	2	-	-	1/0	-	1	4/3	✓	-	-	✓	-	✓	✓	call for pricing	TQFP (PT), QFN (ML), PDIP (P), 5x5 UQFN (MV)										
	PIC16F15385 ^d	NR	48	44	EMR	14 KB 8 Kw	RW	1K	-	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	43	-	-	2	1/0/0/0	-	-	-	✓	-	4/0	2	-	-	1/0	1	-	1/2	✓	-	-	✓	4	-	-	✓	✓	✓	call for pricing	TQFP (PT), QFN (ML), PDIP (P), 5x5 UQFN (MV)							
	PIC16F15386 ^d	NR	48	44	EMR	28 KB 16 Kw	RW	2K	-	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	43	-	-	2	1/0/0/0	-	-	-	✓	-	4/0	2	-	-	1/0	1	-	1/2	✓	-	-	✓	4	-	-	✓	✓	✓	call for pricing	TQFP (PT), QFN (ML), PDIP (P), 5x5 UQFN (MV)							
	PIC16F59	R	40	32	BL	3 KB 2 Kw	-	134	-	2-5.5V	20 MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.85	PDIP (P), TQFP (PT)												
	PIC16LF1567 ^d	R	40	36	EMR	14 KB 8 Kw	RW	1K	HEF	1.8-3.6V	32 MHz	16 MHz	-	2x24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.98	PDIP (P), 5x5 UQFN (MV), TQFP (PT), QFN (ML)											
	PIC16LF1904 ^d	R	40	36	EMR	7 KB 4 Kw	RW	256	-	1.8-3.6V	20 MHz	16 MHz	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$1.19	PDIP (P), TQFP (PT), 5x5 UQFN (MV)												
	PIC16LF1907 ^d	R	40	36	EMR	14 KB 8 Kw	RW	512	-	1.8-3.6V	20 MHz	16 MHz	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$1.25	PDIP (P), TQFP (PT), 5x5 UQFN (MV)												
	PIC16F18875 ^d	R	40	36	EMR	14 KB 8 Kw	RW	1K	256	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	35	-	✓	2	1/0/0/0	-	-	-	✓	-	2/0	5	-	-	3/0	1	1	4/3	✓	-	2	✓	4	-	✓	✓	POR/LPBOR	-	1/0	2	-	2x24	-	-	-	\$1.27	PDIP (P), TQFP (PT), QFN (MO), 5x5 UQFN (MV)
	PIC16F1517 ^d	R	40	36	EMR	14 KB 8 Kw	RW	512	HEF	1.8-5.5V	20 MHz	16 MHz	-	28	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	\$1.32	PDIP (P), TQFP (PT), 5x5 UQFN (MV)										
	PIC16F18876 ^d	NR	40	36	EMR	28 KB 16 Kw	RW	2K	256	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	35	-	✓	2	1/0/0/0	-	-	-	✓	-	2/0	5	-	-	3/0	1	1	4/3	✓	-	2	✓	4	-	✓	✓	POR/LPBOR	-	1/0	2	-	-	-	-	\$1.36	PDIP (P), TQFP (PT), QFN (MO), 5x5 UQFN (MV)	
	PIC16F1717 ^d	R	40	36	EMR	14 KB 8 Kw	RW	1K	HEF	1.8-5.5V	32 MHz	16 MHz	-	28	-	-	2	1/1/0/0	-	2	-	✓	-	2/0	2	-	-	0/1	1	-	4/1	-	-	✓	4	-	-	✓	✓	✓	call for pricing	TQFP (P), TQFP (PT), 5x5 UQFN (MV)								
	PIC16F1519 ^d	R	40	36	EMR	28 KB 16 Kw	RW	1K	HEF	1.8-5.5V	20 MHz	16 MHz	-	28	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	\$1.37	PDIP (P), TQFP (PT), QFN (MO), 5x5 UQFN (MV)											
	PIC16F724 ^d	R	40	36	MR	7 KB 4 Kw	RW	192	-	1.8-5.5V	20 MHz	16 MHz	14	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	\$1.40	PDIP (P), TQFP (PT), 8x8 QFN (ML), 5x5 UQFN (MV)											
	PIC16F1719 ^d	R	40	36	EMR	28 KB 16 Kw	RW	2K	HEF	1.8-5.5V	32 MHz	16 MHz	-	28	-	-	2	1/1/0/0	-	2	-	✓	-	2/0	2	-	-	0/1	1	-	4/1	-	-	✓	4	-	-	✓	✓	✓	call for pricing	TQFP (P), TQFP (PT), 5x5 UQFN (MV)								
	PIC16F1934 ^d	R	40	36	EMR	7 KB 4 Kw	RW	256	256	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	14	-	-	2	-	-	-	-	-	-	2	3	-	-	-	-	-	-	-	-	-	-	-	-	\$1.47	PDIP (P), TQFP (PT), 8x8 QFN (ML), 5x5 UQFN (MV)											
	PIC18F43K20 ^d	R	40	36	PIC18	8 KB 4 Kw	RW	512	256	1.8-3.6V	64 MHz	16 MHz, 31 kHz	-	14	-	-	2	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	\$1.47	PDIP (P), TQFP (PT), 8x8 QFN (ML), 5x5 UQFN (MV)												
	PIC16F18877 ^d	NR	40	36	EMR	56 KB 32 Kw	RW	4K	256	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	35	-	✓	2	1/0/0/0	-	-	-	✓	-	2/0	5	-	-	3/0	1	1	4/3	✓	-	2	✓	4	-	✓	✓	POR/LPBOR	-	1/0	2	-	-	-	-	\$1.53	PDIP (P), TQFP (PT), QFN (MO), 5x5 UQFN (MV)	
	PIC16F1784 ^d	R	40	36	EMR	7 KB 4 Kw	RW	512	256	1.8-5.5V	32 MHz	32 MHz	-	-	14	-	4	0/1/0/0	-	3	-	-	-	-	3	-	3	-	-	-	-	-	-	-	-	-	-	\$1.54	PDIP (P), TQFP (PT), 8x8 QFN (ML), 5x5 UQFN (MV)											
	PIC16F1937 ^d	R	40	36	EMR	14 KB 8 Kw	RW	512	256	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	14	-	-	2	-	-	-	-	-	-	2	3	-	-	-	-	-	-	-	-	-	-	-	\$1.54	PDIP (P), TQFP (PT), 8x8 QFN (ML), 5x5 UQFN (MV)												

Products sorted by pin count followed by pricing.

† Pricing subject to change; please contact your Microchip representative for most current pricing.

◊ Software PLVD implemented via ADC.

* Usable as a General Purpose Timer.

‡ Extreme Low Power variants available.

8-BIT PIC® MICROCONTROLLERS

Product	Released (R) / Not Released (NR)		Core	Memory			Voltage Range	Maximum Speed	Operating Speed		Intelligent Analog			Waveform Control		Timing and Measurements		Logic and Math		Safety and Monitoring		Comm.		Human Interface		Low Power and System Flexibility		Packages (Designator)																				
	Pins	Total I/O		Self-Read/Write	Data RAM (B)	Data EEPROM (B)			B-bit ADC	10-bit ADC	12-bit ADC	ADC ^C	Comparators	DAC (5b/8b/9b/10b)	HC I/O (mA)	Op Amp	PRG/SlopeComp	ZCD	CTMU	PWM (10b/16b)*	CCP (10b PWM)	ECCP (10b PWM)	PSIMC (16b PWM)*	CW/G/COG	NCO*	DSM	B-/16-bit Timer	HLT	AngTMR	SMT	Temp. Indicator	CLC	Hardware Multiply	MatAcc	CRC/SCAN	WWDT	Resets	PLVD	EUUART/AUSART	I ^C /SPI	USB 2.0 Device	mTouch® Channels	LCD Segments	PPS	IDLE/PMD	DOZE		
40/44/48Pin (Cont.)	PIC18F44K20 	R	40	36	PIC18	16 KB 8 Kw	RW	768	256	1.8-3.6V	64 MHz	16 MHz, 31 kHz	-	14	-	-	2	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	\$1.54	PDIP (P), TQFP (PT), 8x8 QFN (ML), 5x5 UQFN (MV)										
	PIC16F1787 	R	40	36	EMR	14 KB 8 Kw	RW	1K	256	1.8-5.5V	32 MHz	32 MHz	-	-	14	-	4	0/1/0/0	-	3	-	-	-	-	3	-	3	-	-	-	-	-	-	-	-	-	\$1.61	PDIP (P), TQFP (PT), 8x8 QFN (ML), 5x5 UQFN (MV)										
	PIC16F1939 	R	40	36	EMR	28 KB 16 Kw	RW	1K	256	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	14	-	-	2	-	-	-	-	-	2	3	-	-	-	-	4/1	-	-	-	-	-	-	-	\$1.61	PDIP (P), TQFP (PT), 8x8 QFN (ML), 5x5 UQFN (MV)										
	PIC18F45K20 	R	40	36	PIC18	32 KB 16 Kw	RW	1536	256	1.8-3.6V	64 MHz	16 MHz, 31 kHz	-	14	-	-	2	-	-	-	-	1	1	-	-	-	-	1/3	-	-	-	-	-	-	-	-	\$1.61	PDIP (P), TQFP (PT), 8x8 QFN (ML), 5x5 UQFN (MV)										
	PIC18F44J10	R	40	32	PIC18	16 KB 8 Kw	RW	1K	-	2-3.6V	40 MHz	31 kHz	-	13	-	-	2	-	-	-	-	1	1	-	-	-	-	1/2	-	-	-	-	-	-	-	-	\$1.67	PDIP (P), TOFP (PT), QFN (ML)										
	PIC18F43K22 	R	40	36	PIC18	8 KB 4 Kw	RW	512	256	1.8-5.5V	64 MHz	16 MHz, 31 kHz	-	28	-	-	2	-	-	-	-	1	1	-	-	-	-	1/3	-	-	-	-	-	-	-	-	\$1.68	PDIP (P), TQFP (PT), 8x8 QFN (ML), 5x5 UQFN (MV)										
	PIC18F1789 	R	40	36	EMR	28 KB 16 KW	RW	2K	256	1.8-5.5V	32 MHz	32 MHz	-	-	14	-	4	3/1/0/0	-	3	-	-	-	-	3	-	4	-	-	-	2/1	-	-	-	-	-	-	-	\$1.68	SPDIP (SP), SOIC (SO), SSOP (SS), 6x6 QFN (ML), 4x4 UQFN (MV)								
	PIC18F44K22 	R	40	36	PIC18	16 KB 8 Kw	RW	768	256	1.8-5.5V	64 MHz	16 MHz, 31 kHz	-	28	-	-	2	-	-	-	-	1	1	-	-	-	-	1/3	-	-	-	-	-	-	-	-	\$1.75	PDIP (P), TQFP (PT), 8x8 QFN (ML), 5x5 UQFN (MV)										
	PIC16F887	R	40	36	MR	14 KB 8 Kw	RW	368	256	2-5.5V	20 MHz	8 MHz, 31 kHz	-	14	-	-	2	-	-	-	-	1	1	-	-	-	-	2/1	-	-	-	-	-	-	-	-	\$1.78	PDIP (P), TOFP (PT), 8x8 QFN (ML)										
	PIC18F45J10	R	40	32	PIC18	32 KB 16 Kw	RW	1K	-	2-3.6V	40 MHz	31 kHz	-	13	-	-	2	-	-	-	-	1	1	-	-	-	-	1/2	-	-	-	-	-	-	-	-	\$1.81	PDIP (P), TQFP (PT), QFN (ML)										
	PIC18F46K20 	R	40	36	PIC18	64 KB 32 Kw	RW	3936	1024	1.8-3.6V	64 MHz	16 MHz, 31 kHz	-	14	-	-	2	-	-	-	-	1	1	-	-	-	-	1/3	-	-	-	-	-	-	-	-	\$1.82	PDIP (P), TOFP (PT), 8x8 QFN (ML)										
	PIC16F1777 	R	40	36	EMR	14 KB 8 Kw	RW	1K	HEF	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	28	-	-	8	4/0/0/4	100	4	4	✓	-	4/4	4	-	4/0	-	4	5/3	✓	-	-	✓	4	-	-	POR/ PBOR/ LPBOR	-	1/0	1	-	28	-	✓	-	\$1.83	PDIP (P), TOFP (PT), 5x5 UQFN (MV)
	PIC18F45K22 	R	40	36	PIC18	32 KB 16 Kw	RW	1536	256	1.8-5.5V	64 MHz	16 MHz, 31 kHz	-	28	-	-	2	-	-	-	-	2	2	-	-	-	-	3/4	-	-	-	-	-	-	-	-	\$1.89	PDIP (P), TQFP (PT), 8x8 QFN (ML), 5x5 UQFN (MV)										
	PIC16F1779 	R	40	36	EMR	28 KB 16 Kw	RW	2K	HEF	1.8-5.5V	32 MHz	32 MHz, 31 kHz	-	28	-	-	8	4/0/0/4	100	4	4	✓	-	4/4	4	-	4/0	-	4	5/3	✓	-	-	✓	4	-	-	POR/ PBOR/ LPBOR	-	1/0	1	-	28	-	✓	-	\$1.92	PDIP (P), TQFP (PT), 5x5 UQFN (MV)
	PIC18F44J11 	R	40	34	PIC18	16 KB 8 Kw	RW	3800	-	2-3.6V	48 MHz	8 MHz, 31 kHz	-	13	-	-	2	-	-	-	-	2	-	-	-	-	-	2/3	-	-	-	-	-	-	-	-	\$1.95	TOFP (PT), QFN (ML)										
	PIC18F45K50 	R	40	36	PIC18	32KB 16 Kw	RW	2K	256	1.8-5.5V	48 MHz	48 MHz	-	25	-	-	2	-	-	-	-	1	1	-	-	-	-	2/2	-	-	-	-	-	-	-	-	\$1.99	PDIP (P), TQFP (PT), 5x5 UQFN (MV)										

Products sorted by pin count followed by pricing.

† Pricing subject to change; please contact your Microchip representative for most current pricing.

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* Usable as a General Purpose Timer.

‡ eXtreme Low Power variants available.

Product	Released (R) / Not Released (NR)	Pins Total I/O	Core	Memory			Operating Speed	Intelligent Analog				Waveform Control			Timing and Measurements		Logic and Math		Safety and Monitoring		Comm.	Human Interface	Low Power and System Flexibility	5 ku Pricing ^f	Packages (Designator)																								
				Program	Self-Read/Write	Data RAM (B)		8-bit ADC	10-bit ADC	12-bit ADC	ADC ^c	Comparators	DAC (5b/8b/9b/10b)	HC I/O (mA)	Op Amp	PRG/SlopeComp	ZCD	CTMU	PWM (10b/16b)*	CCP (10b PWM)	ECCP (10b PWM)	PSIMC (16b PWM)*	CW/G/COG	NCO*	DSM	8-/16-bit Timer	HLT	Angl/MTR	SMT	Temp. Indicator	CLC	Hardware Multiply	MatAcc	CRC/SCAN	WWDT	mTouch® Channels	LCD Segments	PPS	IDLE/PMD	DOZE									
				Voltage Range	Maximum Speed	Internal Oscillator																																											
40/44/48 Pin (Cont.)	PIC18F45J11	R	40	34	PIC18	32 KB 16 Kw	RW	3800	-	2–3.6V	48 MHz	8 MHz, 31 kHz	-	13	-	2	-	-	-	✓	-	-	2	-	-	-	-	2/3	-	-	-	-	BOR	SW ^d	2/0	2	-	13	-	-	\$2.09	TQFP (PT), QFN (ML)							
	PIC18F44J50	R	40	34	PIC18	16 KB 8 Kw	RW	3800	-	2–3.6V	48 MHz	8 MHz, 31 kHz	-	13	-	2	-	-	-	✓	-	-	2	-	-	-	-	2/3	-	-	-	-	BOR	SW ^d	2/0	2	✓	13	-	-	\$2.16	TQFP (PT), QFN (ML)							
	PIC18F45K80 ^d	R	40	35	PIC18	32 KB 16 Kw	RW	3648	1024	1.8–5.5V	64 MHz	8 MHz, 31 kHz	-	11	-	2	-	-	-	-	✓	-	4	1	-	-	-	2/3	-	-	-	-	BOR	SW ^d	2/0	1	-	11	-	-	\$2.17	PDIP (P), TQFP (PT), QFN (ML)							
	PIC18F46K22 ^d	R	40	36	PIC18	64 KB 32 Kw	RW	3896	1024	1.8–5.5V	64 MHz	16 MHz, 31 kHz	-	28	-	2	-	-	-	-	✓	-	2	2	-	-	-	3/4	-	-	-	-	✓	-	-	-	-	PBOR	✓	2/0	2	-	28	-	-	\$2.17	PDIP (P), TQFP (PT), 8x8 QFN (ML), 5x5 UQFN (MV)		
	PIC18F45J50	R	40	34	PIC18	32 KB 16 Kw	RW	3800	-	2–3.6V	48 MHz	8 MHz, 31 kHz	-	13	-	2	-	-	-	-	✓	-	-	2	-	-	-	-	2/3	-	-	-	-	BOR	SW ^d	2/0	2	✓	13	-	-	\$2.30	TQFP (PT), QFN (ML)						
	PIC18F46J11	R	40	34	PIC18	64 KB 32 Kw	RW	3800	-	2–3.6V	48 MHz	8 MHz, 31 kHz	-	13	-	2	-	-	-	-	✓	-	-	2	-	-	-	-	2/3	-	-	-	-	BOR	SW ^d	2/0	2	✓	13	-	-	\$2.37	PDIP (P), TQFP (PT), QFN (ML)						
	PIC18F46K80 ^d	R	44	35	PIC18	64 KB 32 Kw	RW	3648	1024	1.8–5.5V	64 MHz	8 MHz, 31 kHz	-	11	-	2	-	-	-	-	✓	-	4	1	-	-	-	2/3	-	-	-	-	✓	-	-	-	-	PBOR	✓	2/0	1	-	11	-	-	\$2.45	PDIP (P), TQFP (PT), QFN (ML)		
	PIC18F46J13	R	44	34	PIC18	64 KB 32 Kw	RW	3808	-	2–3.6V	48 MHz	8 MHz, 31 kHz	-	13	-	3	-	-	-	-	✓	-	7	3	-	-	-	4/4	-	-	-	-	✓	-	-	-	-	BOR	✓	2/0	2	-	13	-	-	\$2.52	TQFP (PT), QFN (ML)		
	PIC18F46J53 ^d	R	44	33	PIC18	64 KB 32 Kw	RW	3808	-	2–3.6V	48 MHz	8 MHz, 31 kHz	-	13	-	3	-	-	-	-	✓	-	7	3	-	-	-	4/4	-	-	-	-	✓	-	-	-	-	BOR	✓	2/0	2	✓	13	-	-	\$2.73	TQFP (PT), QFN (ML)		
	PIC18F47J13	R	44	34	PIC18	128 KB 64 Kw	RW	3808	-	2–3.6V	48 MHz	8 MHz, 31 kHz	-	13	-	3	-	-	-	-	✓	-	7	3	-	-	-	4/4	-	-	-	-	✓	-	-	-	-	BOR	✓	2/0	2	-	13	-	-	\$2.76	TQFP (PT), QFN (ML)		
	PIC18F47J53	R	44	33	PIC18	128 KB 64 Kw	RW	3808	-	2–3.6V	48 MHz	8 MHz, 31 kHz	-	13	-	3	-	-	-	-	✓	-	7	3	-	-	-	4/4	-	-	-	-	✓	-	-	-	-	BOR	✓	2/0	2	✓	13	-	-	\$2.97	TQFP (PT), QFN (ML)		
64-Pin	PIC18F65K40 ^d	NR	64	59	PIC18	32 KB 16 Kw	RW	2K	1K	1.8–5.5V	64 MHz	64 MHz, 31 kHz	-	47	-	3	1/0/0/0	-	-	✓	-	2/0	5	-	1/0	-	1	5/4	✓	-	2	✓	-	✓	✓	POR/PBOR/LPBOR	✓	5/0	2	-	47	-	✓	✓	call for pricing	TQFP (PT), QFN (MR)			
	PIC18F66K40 ^d	NR	64	59	PIC18	64 KB 32 Kw	RW	4K	1K	1.8–5.5V	64 MHz	64 MHz, 31 kHz	-	47	-	3	1/0/0/0	-	-	✓	-	2/0	5	-	1/0	-	1	5/4	✓	-	2	✓	-	✓	✓	POR/PBOR/LPBOR	✓	5/0	2	-	47	-	✓	✓	call for pricing	TQFP (PT), QFN (MR)			
	PIC18F67K40 ^d	NR	64	59	PIC18	128 KB 64 Kw	RW	4K	1K	1.8–5.5V	64 MHz	64 MHz, 31 kHz	-	47	-	3	1/0/0/0	-	-	✓	-	2/0	5	-	1/0	-	1	5/4	✓	-	2	✓	-	✓	✓	POR/PBOR/LPBOR	✓	5/0	2	-	47	-	✓	✓	call for pricing	TQFP (PT), QFN (MR)			
	PIC16F1526 ^d	R	64	54	EMR	14 KB 8 Kw	RW	768	HEF	1.8–5.5V	20 MHz	16 MHz	-	30	-	-	-	-	-	-	-	-	10	-	-	-	-	6/3	-	-	-	-	✓	-	-	-	-	PBOR	SW ^d	2/0	2	-	30	-	-	\$1.47	TQFP (PT), QFN (MR)		
	PIC16F1527 ^d	R	64	54	EMR	28 KB 16 Kw	RW	1536	HEF	1.8–5.5V	20 MHz	16 MHz	-	30	-	-	-	-	-	-	-	-	10	-	-	-	-	6/3	-	-	-	-	✓	-	-	-	-	PBOR	SW ^d	2/0	2	-	30	-	-	\$1.54	TQFP (PT), QFN (MR)		
	PIC16F1946 ^d	R	64	53	EMR	14 KB 8 Kw	RW	512	256	1.8–5.5V	32 MHz	32 MHz, 31 kHz	-	17	-	3	-	-	-	-	-	-	2	3	-	-	-	4/1	-	-	✓	-	-	-	-	BOR	SW ^d	2/0	2	-	17	184	-	-	\$1.75	TQFP (PT), QFN (MR)			
	PIC16F1947 ^d	R	64	53	EMR	28 KB 16 Kw	RW	1K	256	1.8–5.5V	32 MHz	32 MHz, 31 kHz	-	17	-	3	-	-	-	-	-	-	2	3	-	-	-	4/1	-	-	✓	-	-	-	-	BOR	SW ^d	2/0	2	-	17	184	-	-	\$1.82	TQFP (PT), QFN (MR)			
	PIC18F63J11	R	64	54	PIC18	8 KB 4 Kw	RW	1K	-	2–3.6V	40 MHz	8 MHz, 31 kHz	-	12	-	2	-	-	-	-	-	-	2	-	-	-	-	1/3	-	-	-	-	✓	-	-	-	-	PBOR	SW ^d	1/1	1	-	12	-	-	\$2.20	TQFP (PT)		
	PIC18F65J10	R	64	50	PIC18	32 KB 16 Kw	RW	2K	-	2–3.6V	40 MHz	31 kHz	-	11	-	2	-	-	-	-	-	2	3	-	-	-	2/3	-	-	-	-	✓	-	-	-	-	BOR	✓	2/0	2	-	11	-	-	\$2.25	TQFP (PT)			
	PIC18F64J11	R	64	54	PIC18	16 KB 8 Kw	RW	1K	-	2–3.6V	40 MHz	8 MHz, 31 kHz	-	12	-	2	-	-	-	-	-	2	-	-	-	-	1/3	-	-	-	-	✓	-	-	-	-	BOR	SW ^d	1/1	1	-	12	-	-	\$2.27	TQFP (PT)			
	PIC18F63J90	R	64	51	PIC18	8 KB 4 Kw	RW	1K	-	2–3.6V	40 MHz	8 MHz, 31 kHz	-	12	-	2	-	-	-	-	-	2	-	-	-	-	1/3	-	-	-	-	✓	-	-	-	-	BOR	✓	1/1	1	-	12	132	-	-	\$2.35	TQFP (PT)		
	PIC18F65J11	R	64	54	PIC18	32 KB 16 Kw	RW	2K	-	2–3.6V	40 MHz	8 MHz, 31 kHz	-	12	-	2	-	-	-	-	-	2	-	-	-	-	1/3	-	-	-	-	✓	-	-	-	-	BOR	SW ^d	1/1	1	-	12	-	-	\$2.37	TQFP (PT)			
	PIC18F65J94	R	64	51	PIC18	32 KB 16 Kw	RW	4K	-	2–3.6V	64 MHz	64 MHz	-	16	16	-	3	-	-	-	-	✓	✓	7	3	-	-	-	4/4	-	-	-	-	✓	-	-	-	-	BOR	-	0/4	2	✓	24	224	-	-	\$2.38	QFN (MR), TQFP (PT)
	PIC18F65K22 ^d	R	64	53	PIC18	32 KB 16 Kw	RW	2K	1024	1.8–5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	-	-	16	-	3	-	-	-	-	✓	-	5	3	-	-	-	4/4	-	-	-	-	✓	-	-	-	-	✓	2/0	2	-	16	-	-	\$2.39	TQFP (PT), QFN (MR)		

Products sorted by pin count followed by pricing.

† Pricing subject to change; please contact your Microchip representative for most current pricing.

◊ Software PLVD implemented via ADC.

* Usable as a General Purpose Timer.

□ eXtreme Low Power variants available.

8-BIT PIC® MICROCONTROLLERS

Product	Released (R) / Not Released (NR)		Pins Total I/O	Core	Memory			Voltage Range	Operating Speed	Intelligent Analog				Waveform Control			Timing and Measurements		Logic and Math		Safety and Monitoring		Comm.		Human Interface		Low Power and System Flexibility		Packages (Designator)																		
	Total	I/O			Program	Self-Read/Write	Data RAM (B)			8-bit ADC	10-bit ADC	12-bit ADC	ADC ^c	Comparators	DAC (5b/8b/9b/10b)	HQ I/O (mA)	Op Amp	PRG/Slope/Comp	ZCD	CTMU	PWM (10b/16b)*	COP (10b PWM)	ECP (10b PWM)	PSMC (16b PWM)*	CWG/COG	NCO*	DSM	S/16-bit Timer	HLT	AnglIMR	SMT	Temp. Indicator	CLC	Hardware Multiply	MatAcc	CRC/SCAN	WWDT	Plwd	PLVD	EUART/AUSART	PC/SPI	USB 2.0 Device	mTouch® Channels	LCD Segments	PPS	IDLE/PMD	DOZE
	Total	I/O			Program	Self-Read/Write	Data RAM (B)			8-bit ADC	10-bit ADC	12-bit ADC	ADC ^c	Comparators	DAC (5b/8b/9b/10b)	HQ I/O (mA)	Op Amp	PRG/Slope/Comp	ZCD	CTMU	PWM (10b/16b)*	COP (10b PWM)	ECP (10b PWM)	PSMC (16b PWM)*	CWG/COG	NCO*	DSM	S/16-bit Timer	HLT	AnglIMR	SMT	Temp. Indicator	CLC	Hardware Multiply	MatAcc	CRC/SCAN	WWDT	Plwd	PLVD	EUART/AUSART	PC/SPI	USB 2.0 Device	mTouch® Channels	LCD Segments	PPS	IDLE/PMD	DOZE
PIC18F64J90	R	64	51	PIC18	16 KB 8 Kw	RW	1K	-	2-3.6V	40 MHz	8 MHz, 31 kHz	-	12	-	2	-	-	-	-	-	2	-	-	-	-	-	1/3	-	-	-	-	-	✓	1/1	1	-	12	132	-	-	\$2.41	TQFP (PT)					
PIC18F66J10	R	64	50	PIC18	64 KB 32 Kw	RW	2K	-	2-3.6V	40 MHz	31 kHz	-	11	-	2	-	-	-	-	-	2	3	-	-	-	-	-	2/3	-	-	-	-	-	✓	2/0	2	-	11	-	-	-	\$2.49	TQFP (PT)				
PIC18F65J90	R	64	50	PIC18	32 KB 16 Kw	RW	2K	-	2-3.6V	40 MHz	8 MHz, 31 kHz	-	12	-	2	-	-	-	-	-	2	-	-	-	-	-	1/3	-	-	-	-	-	✓	1/1	1	-	12	132	-	-	\$2.52	TQFP (PT)					
PIC18F65K90 ^{MP}	R	64	53	PIC18	32 KB 16 Kw	RW	2K	1024	1.8-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	-	16	-	3	-	-	-	-	✓	5	3	-	-	-	-	4/4	-	-	-	-	-	✓	2/0	2	✓	8	-	-	-	\$2.53	TQFP (PT), QFN (MR)					
PIC18F65J50	R	64	49	PIC18	32 KB 16 Kw	RW	3904	-	2-3.6V	48 MHz	8 MHz, 31 kHz	-	8	-	2	-	-	-	-	-	2	3	-	-	-	-	-	2/3	-	-	-	-	-	✓	2/0	2	✓	24	224	-	-	\$2.63	TQFP (PT)				
PIC18F66J11	R	64	50	PIC18	64 KB 32 Kw	RW	3904	-	2-3.6V	48 MHz	8 MHz, 31 kHz	-	11	-	2	-	-	-	-	-	2	3	-	-	-	-	-	2/3	-	-	-	-	-	✓	2/0	2	-	11	-	-	-	\$2.63	TQFP (PT)				
PIC18F66J94	R	64	51	PIC18	64 KB 32 Kw	RW	4K	-	2-3.6V	64 MHz	64 MHz	-	16	16	3	-	-	-	-	✓	✓	7	3	-	-	-	-	4/4	-	-	-	-	-	✓	4/0	2	✓	24	224	-	-	\$2.69	QFN (MR), TQFP (PT)				
PIC18F66J93	R	64	51	PIC18	64 KB 32 Kw	RW	3900	-	2-3.6V	48 MHz	8 MHz, 31 kHz	-	12	-	2	-	-	-	-	✓	2	-	-	-	-	-	1/3	-	-	-	-	-	✓	1/1	1	-	12	132	-	-	\$2.70	TQFP (PT)					
PIC18F65K80 ^{MP}	R	64	54	PIC18	32 KB 16 Kw	RW	3648	1K	1.8-5.5V	64 MHz	8 MHz, 31 kHz	-	11	-	2	-	-	-	-	✓	4	1	-	-	-	-	2/3	-	-	-	-	-	✓	2/0	1	-	11	-	-	-	\$2.70	TQFP (PT), QFN (MR)					
PIC18F66K22 ^{MP}	R	64	53	PIC18	64 KB 32 Kw	RW	4K	1K	1.8-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	-	16	-	3	-	-	-	-	✓	7	3	-	-	-	-	6/5	-	-	-	-	-	✓	2/0	2	-	16	-	-	-	\$2.70	TQFP (PT), QFN (MR)					
PIC18F67J10	R	64	50	PIC18	128 KB 64 Kw	RW	3936	-	2-3.6V	40 MHz	31 kHz	-	11	-	2	-	-	-	-	-	2	3	-	-	-	-	-	2/3	-	-	-	-	-	✓	2/0	2	-	11	-	-	-	\$2.77	TQFP (PT)				
PIC18F66K90 ^{MP}	R	64	53	PIC18	64 KB 32 Kw	RW	4K	1K	1.8-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	-	16	-	3	-	-	-	-	✓	7	3	-	-	-	-	6/5	-	-	-	-	-	✓	2/0	2	-	16	132	-	-	\$2.84	TQFP (PT), QFN (MR)					
PIC18F66J50	R	64	49	PIC18	64 KB 32 Kw	RW	3904	-	2-3.6V	48 MHz	8 MHz, 31 kHz	-	8	-	2	-	-	-	-	-	2	3	-	-	-	-	-	2/3	-	-	-	-	-	✓	2/0	2	✓	8	-	-	-	\$2.90	TQFP (PT)				
PIC18F67J11	R	64	50	PIC18	128 KB 64 Kw	RW	3904	-	2-3.6V	48 MHz	8 MHz, 31 kHz	-	11	-	2	-	-	-	-	-	2	3	-	-	-	-	-	2/3	-	-	-	-	-	✓	2/0	2	-	11	-	-	-	\$2.93	TQFP (PT)				
PIC18F67J94	R	64	51	PIC18	128 KB 64 Kw	RW	4K	-	2-3.6V	64 MHz	64 MHz	-	16	16	3	-	-	-	-	✓	✓	7	3	-	-	-	-	4/4	-	-	-	-	-	✓	4/0	2	✓	24	224	-	-	\$2.93	QFN (MR), TQFP (PT)				
PIC18F67K22 ^{MP}	R	64	53	PIC18	128 KB 64 Kw	RW	4K	1K	1.8-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	-	16	-	3	-	-	-	-	✓	7	3	-	-	-	-	6/5	-	-	-	-	-	✓	2/0	2	-	16	-	-	-	\$2.94	TQFP (PT), QFN (MR)					
PIC18F66K80 ^{MP}	R	64	54	PIC18	64 KB 32 Kw	RW	3648	1K	1.8-5.5V	64 MHz	8 MHz, 31 kHz	-	11	-	2	-	-	-	-	✓	4	1	-	-	-	-	2/3	-	-	-	-	-	✓	2/0	1	-	11	-	-	-	\$2.98	TQFP (PT), QFN (MR)					
PIC18F67J93	R	64	51	PIC18	128 KB 64 Kw	RW	3900	-	2-3.6V	48 MHz	8 MHz, 31 kHz	-	12	-	2	-	-	-	-	✓	2	-	-	-	-	-	1/3	-	-	-	-	-	✓	1/1	1	-	12	132	-	-	\$3.00	TQFP (PT)					
PIC18F67K90 ^{MP}	R	64	53	PIC18	128 KB 64 Kw	RW	4K	1K	1.8-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	-	16	-	3	-	-	-	-	✓	7	3	-	-	-	-	6/5	-	-	-	-	-	✓	2/0	2	-	16	132	-	-	\$3.08	TQFP (PT), QFN (MR)					
PIC18F67J50	R	64	49	PIC18	128 KB 64 Kw	RW	3904	-	2-3.6V	48 MHz	8 MHz, 31 kHz	-	8	-	2	-	-	-	-	-	2	3	-	-	-	-	-	2/3	-	-	-	-	-	✓	2/0	2	✓	8	-	-	-	\$3.19	TQFP (PT)				
PIC18F83J11	R	80	70	PIC18	8 KB 4 Kw	RW	1K	-	2-3.6V	40 MHz	8 MHz, 31 kHz	-	12	-	2	-	-	-	-	-	2	-	-	-	-	-	1/3	-	-	-	-	-	✓	BOR	SW0	1/1	1	-	12	-	-	-	\$2.46	TQFP (PT)			
PIC18F85J10	R	80	66	PIC18	32 KB 16 Kw	RW	2K	-	2-3.6V	40 MHz	31 kHz	-	15	-	2	-	-	-	-	-	2	3	-	-	-	-	-	2/3	-	-	-	-	-	✓	BOR	✓	2/0	2	-	15	-	-	-	\$2.49	TQFP (PT)		
PIC18F84J11	R	80	70	PIC18	16 KB 8 Kw	RW	1K	-	2-3.6V	40 MHz	8 MHz, 31 kHz	-	12	-	2	-	-	-	-	-	2	-	-	-	-	-	1/3	-	-	-	-	-	✓	BOR	SW0	1/1	1	-	12	-	-	-	\$2.52	TQFP (PT)			
PIC18F83J90	R	80	66	PIC18	8 KB 4 Kw	RW	1K	-	2-3.6V	40 MHz	8 MHz, 31 kHz	-	12	-	2	-	-	-	-	-	2	-	-	-	-	-	1/3	-	-	-	-	-	✓	BOR	✓	1/1	1	-	12	192	-	-	\$2.60	TQFP (PT)			
PIC18F85J11	R	80	70	PIC18	32 KB 16 Kw	RW	2K	-	2-3.6V	40 MHz	8 MHz, 31 kHz	-	12	-	2	-	-	-	-	-	2	-	-	-	-	-	1/3	-	-	-	-	-	✓	BOR	SW0	1/1	1	-	12	-	-	-	\$2.63	TQFP (PT)			
PIC18F85J94	R	80	67	PIC18	32 KB 16 Kw	RW	4K	-	2-3.6V	64 MHz	64 MHz	-	24	24	3	-	-	-	-	✓	✓	7	3	-	-	-	-	4/4	-	-	-	-	-	✓	BOR	-	4/0	2	✓	24	352	-	-	\$2.65	TQFP (PT)		
PIC18F85K22 ^{MP}	R	80	69	PIC18	32 KB 16 Kw	RW	2K	1K	1.8-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	-	24	-	3	-	-	-	-	✓	-	5	3	-	-	-	-	4/4	-	-	-	-	-	✓	BOR	✓	2/0	2	-	24	-	-	-	\$2.66	TQFP (PT)		

Products sorted by pin count followed by pricing.

† Pricing subject to change; please contact your Microchip representative for most current pricing.

◊ Software PLVD implemented via ADC.

* Usable as a General Purpose Timer.

MP eXtreme Low Power variants available.

Product		8-BIT PIC® MICROCONTROLLERS										Packages (Designator)																																				
		Released (R) / Not Released (NR)		Pins		Memory		Operating Speed		Intelligent Analog			Waveform Control		Timing and Measurements		Logic and Math		Safety and Monitoring		Comm.		Human Interface		Low Power and System Flexibility																							
		Total	I/O	Core	Program	Self-Read/Write	Data RAM (B)	Data EEPROM (B)	Voltage Range	Maximum Speed	Internal Oscillator	8-bit ADC	10-bit ADC	12-bit ADC	ADC*	Comparators	DAC (5b/8b/9b/10b)	HC I/O (mA)	Op Amp	PRG/Slope/Comp	ZCD	CTMU	PWM (10b/16b)*	CCP (10b PWM)	ECPP (10b PWM)	PSMC (16b PWM)**	CWG/COG	NCO*	DSM	8-/16-bit Timer	HLT	Ang/TMR	SMT	Temp. Indicator	CLC	Hardware Multiply	MatAcc	GRC/SCAN	WWDN	Resets	PWD	EUSART/AUSART	I _C /SPI	USB 2.0 Device	mTouch® Channels	LCD Segments	PPS	IDLE/PMD
80-Pin (Cont.)	PIC18F84J90	R	80	66	PIC18	16 KB 8 Kw	RW	1K	-	2-3.6V	40 MHz	8 MHz, 31 kHz	-	12	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$2.67	TQFP (PT)											
	PIC18F86J10	R	80	66	PIC18	64 KB 32 Kw	RW	2K	-	2-3.6V	40 MHz	31 kHz	-	15	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$2.74	TQFP (PT)												
	PIC18F85J90	R	80	66	PIC18	32 KB 16 Kw	RW	2K	-	2-3.6V	40 MHz	8 MHz, 31 kHz	-	12	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$2.77	TQFP (PT), LQFP (PL)												
	PIC18F85K90 	R	80	69	PIC18	32 KB 16 Kw	RW	2K	1K	1.8-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	-	24	-	3	-	-	-	-	✓	-	5	3	-	-	-	4/4	-	-	-	-	✓	-	-	BOR	✓	2/0	2	-	15	-	-	\$2.80	TQFP (PT)			
	PIC18F85J50	R	80	65	PIC18	32 KB 16 Kw	RW	3904	-	2-3.6V	48 MHz	8 MHz, 31 kHz	-	12	-	-	2	-	-	-	-	-	2	3	-	-	-	2/3	-	-	-	-	✓	-	-	BOR	✓	2/0	2	✓	12	-	-	\$2.90	TQFP (PT)			
	PIC18F86J11	R	80	66	PIC18	64 KB 32 Kw	RW	3904	-	2-3.6V	48 MHz	8 MHz, 31 kHz	-	15	-	-	2	-	-	-	-	-	2	3	-	-	-	2/3	-	-	-	-	✓	-	-	BOR	✓	2/0	2	-	15	-	-	\$2.90	TQFP (PT)			
	PIC18F86J94	R	80	67	PIC18	64 KB 32 Kw	RW	4K	-	2-3.6V	64 MHz	64 MHz	-	24	24	-	3	-	-	-	-	✓	7	3	-	-	-	4/4	-	-	-	-	✓	-	-	BOR	-	4/0	2	✓	24	352	-	-	\$2.95	TQFP (PT)		
	PIC18F86J93	R	80	67	PIC18	64 KB 32 Kw	RW	3900	-	2-3.6V	48 MHz	8 MHz, 31 kHz	-	12	-	2	-	-	-	-	✓	-	2	-	-	-	1/3	-	-	-	-	✓	-	-	BOR	✓	1/1	1	-	12	192	-	-	\$2.97	TQFP (PT)			
	PIC18F86K22 	R	80	69	PIC18	64 KB 32 Kw	RW	4K	1K	1.8-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	-	24	-	3	-	-	-	-	✓	-	7	3	-	-	-	6/5	-	-	-	-	✓	-	-	BOR	✓	2/0	2	-	24	-	-	\$2.97	TQFP (PT)			
	PIC18F87J10	R	80	66	PIC18	128 KB 64 Kw	RW	3936	-	2-3.6V	40 MHz	31 kHz	-	15	-	-	2	-	-	-	-	-	2	3	-	-	-	2/3	-	-	-	-	✓	-	-	BOR	✓	2/0	2	-	15	-	-	\$3.02	TQFP (PT), LQFP (PL)			
	PIC18F86K90 	R	80	69	PIC18	64 KB 32 Kw	RW	4K	1K	1.8-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	-	24	-	3	-	-	-	-	✓	-	7	3	-	-	-	6/5	-	-	-	-	✓	-	-	BOR	✓	2/0	2	-	24	192	-	-	\$3.11	TQFP (PT)		
	PIC18F86J50	R	80	65	PIC18	64 KB 32 Kw	RW	3904	-	2-3.6V	48 MHz	8 MHz, 31 kHz	-	12	-	-	2	-	-	-	-	-	2	3	-	-	-	2/3	-	-	-	-	✓	-	-	BOR	✓	2/0	2	✓	12	-	-	\$3.15	TQFP (PT)			
	PIC18F87J11	R	80	66	PIC18	128 KB 64 Kw	RW	3904	-	2-3.6V	48 MHz	8 MHz, 31 kHz	-	15	-	-	2	-	-	-	-	-	2	3	-	-	-	2/3	-	-	-	-	✓	-	-	BOR	✓	2/0	2	-	15	-	-	\$3.19	TQFP (PT)			
	PIC18F87J94	R	80	67	PIC18	128 KB 64 Kw	RW	4K	-	2-3.6V	64 MHz	64 MHz	-	24	24	-	3	-	-	-	-	✓	7	3	-	-	-	4/4	-	-	-	-	✓	-	-	BOR	-	4/0	2	✓	24	352	-	-	\$3.19	TQFP (PT)		
	PIC18F87K22 	R	80	69	PIC18	128 KB 64 Kw	RW	4K	1K	1.8-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	-	24	-	3	-	-	-	-	✓	-	7	3	-	-	-	6/5	-	-	-	-	✓	-	-	BOR	✓	2/0	2	-	24	-	-	\$3.21	TQFP (PT)			
	PIC18F87J93	R	80	67	PIC18	128 KB 64 Kw	RW	3900	-	2-3.6V	48 MHz	8 MHz, 31 kHz	-	12	-	2	-	-	-	-	✓	-	2	-	-	-	1/3	-	-	-	-	✓	-	-	BOR	✓	1/1	1	-	12	192	-	-	\$3.26	TQFP (PT)			
	PIC18F87K90 	R	80	69	PIC18	128 KB 64 Kw	RW	4K	1K	1.8-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	-	24	-	3	-	-	-	-	✓	-	7	3	-	-	-	6/5	-	-	-	-	✓	-	-	BOR	✓	2/0	2	-	24	192	-	-	\$3.35	TQFP (PT)		
	PIC18F87J50	R	80	65	PIC18	128 KB 64 Kw	RW	3904	-	2-3.6V	48 MHz	8 MHz, 31 kHz	-	12	-	-	2	-	-	-	-	-	2	3	-	-	-	2/3	-	-	-	-	✓	-	-	BOR	✓	2/0	2	✓	12	-	-	\$3.44	TQFP (PT)			
	PIC18F86J60	R	80	55	PIC18	64 KB 32 Kw	RW	3808	-	2-3.6V	42 MHz	31 kHz	-	15	-	-	2	-	-	-	-	-	2	3	-	-	-	2/3	-	-	-	-	✓	-	-	BOR	✓	2/0	1	-	15	-	-	\$3.63	TQFP (PT)			
	PIC18F87J60	R	80	55	PIC18	128 KB 64 Kw	RW	3808	-	2-3.6V	42 MHz	32 kHz, 31 kHz	-	15	-	-	2	-	-	-	-	-	2	3	-	-	-	2/3	-	-	-	-	✓	-	-	BOR	✓	2/0	1	-	15	-	-	\$3.92	TQFP (PT)			
	PIC18F86J72	R	80	51	PIC18	64 KB 32 Kw	RW	3923	-	2-3.6V	48 MHz	8 MHz, 31 kHz	-	12	-	2	-	-	-	-	✓	-	2	-	-	-	1/3	-	-	-	-	✓	-	-	BOR	✓	1/1	1	-	12	132	-	-	\$4.12	TQFP (PT)			
	PIC18F87J72	R	80	51	PIC18	128 KB 64 Kw	RW	3923	-	2-3.6V	48 MHz	8 MHz, 31 kHz	-	12	-	2	-	-	-	-	✓	-	2	-	-	-	1/3	-	-	-	-	✓	-	-	BOR	✓	1/1	1	-	12	132	-	-	\$4.35	TQFP (PT)			
100-Pin	PIC18F95J94	R	100	85	PIC18	32 KB 16 Kw	RW	4K	-	2-3.6V	64 MHz	64 MHz	-	24	24	-	3	-	-	-	-	✓	✓	7	3	-	-	-	4/4	-	-	-	-	✓	-	-	BOR	-	4/0	2	✓	24	480	-	-	\$2.83	TQFP (PT/PF)	
	PIC18F96J94	R	100	85	PIC18	64 KB 32 Kw	RW	4K	-	2-3.6V	64 MHz	64 MHz	-	24	24	-	3	-	-	-	-	✓	✓	7	3	-	-	-	4/4	-	-	-	-	✓	-	-	BOR	-	4/0	2	✓	24	480	-	-	\$3.14	TQFP (PT/PF)	
	PIC18F97J94	R	100	85	PIC18	128 KB 64 Kw	RW	4K	-	2-3.6V	64 MHz	64 MHz	-	24	24	-	3	-	-	-	-	✓	✓	7	3	-	-	-	4/4	-	-	-	-	✓	-	-	BOR	-	4/0	2	✓	24	480	-	-	\$3.37	TQFP (PT/PF)	
	PIC18F96J60	R	100	70	PIC18	64 KB 32 Kw	RW	3808	-	2-3.6V	42 MHz	31 kHz	-	16	-	-	2	-	-	-	-	-	2	3	-	-	-	2/3	-	-	-	-	✓	-	-	BOR	✓	2/0	2	-	16	-	-	\$3.84	TQFP (PT)			
	PIC18F97J60	R	64-100	70	PIC18	128 KB 64 Kw	RW	3808	-	2-3.6V	42 MHz	31 kHz	-	16	-	-	2	-	-	-	-	-	2	3	-	-	-	2/3	-	-	-	-	✓	-	-	BOR	✓	2/0	2	-	16	-	-	\$4.13	TQFP (PT), LQFP (PL)			

Products sorted by pin count followed by pricing.

† Pricing subject to change; please contact your Microchip representative for most current pricing.

◊ Software PLVD implemented via ADC.

* Usable as a General Purpose Timer.

‡ eXtreme Low Power variants available.

16-BIT PIC® MICROCONTROLLERS (PIC24F)

Product	Released (R) Not Released (NR)	I/O Pins	Core	Memory				Voltage Range	Maximum MIPS	Operating Speed	Analog Sensing & Measurement				Communication				Monitors	System Mgmt Features	Packages (Designator)						
				Program (KB)	Data RAM (B)	EEPROM	DMA #Ch				Internal Oscillator	Charge Time Measurement Unit	ADC	16-bit ADC (diff ch)	Comparators	LCD Segments	Graphics Controller	Output Compare/PWM	Input Capture	16-bit Timer ^a							
14-Pin	PIC24F04KL100	R	12	PIC24	4	512	AN1095 ⁽¹⁾	-	1.8V-3.6V	16	8 MHz, 32 kHz	-	-	-	1	-	-	2	2	2	1 UART, 1 SPI/PC (MSSP)	-	-	-	\$1.06	BOR, HLVD, POR, PWRT, WDT, XLP	PDIP (P), TSSOP (ST)
	PIC24F04KA200	R	12	PIC24	4	512	AN1095 ⁽¹⁾	-	1.8V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 7 ch 10-bit	-	2	-	-	1	1	3	1 UART, 1 SPI, 1 I²C	-	-	-	\$1.16	BOR, POR, WDT, Deep Sleep, XLP	SPDIP (SP), TSSOP (ST)
	PIC24F08KL200	R	12	PIC24	8	512	AN1095 ⁽¹⁾	-	1.8V-3.6V	16	8 MHz, 32 kHz	-	1 ADC, 7 ch 10-bit	-	1	-	-	2	2	2	1 UART, 1 SPI/PC (MSSP)	-	-	-	\$1.25	BOR, HLVD, POR, PWRT, WDT, XLP	PDIP (P), TSSOP (ST)
20-Pin	PIC24F08KM101	R	18	PIC24	8	1024	512	-	1.8V-5.5V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 1100/500 kbps	-	1	-	-	5	5	11	1 UART, 1 SPI/PC (MSSP)	-	-	-	\$1.08	BOR, HLVD, POR, WDT, OST, XLP	PDIP (P), SOIC (SO)
	PIC24F04KL101	R	17	PIC24	4	512	AN1095 ⁽¹⁾	-	1.8V-3.6V	16	8 MHz, 32 kHz	-	-	-	1	-	-	2	2	2	1 UART, 1 SPI/PC (MSSP)	-	-	-	\$1.15	BOR, HLVD, POR, PWRT, WDT, XLP	PDIP (P), SOIC (SO), SSOP (SS), 5 x 5 QFN (MQ)
	PIC24F04KA201	R	18	PIC24	4	512	AN1095 ⁽¹⁾	-	1.8V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 9 ch 10-bit	-	2	-	-	1	1	3	1 UART, 1 SPI, 1 I²C	-	-	-	\$1.25	BOR, POR, WDT, Deep Sleep, XLP	PDIP (P), SOIC (SO), SSOP (SS), QFN (MQL)
	PIC24F08KL201	R	17	PIC24	8	512	AN1095 ⁽¹⁾	-	1.8V-3.6V	16	8 MHz, 32 kHz	-	1 ADC, 12 ch 10-bit	-	1	-	-	2	2	2	1 UART, 1 SPI/PC (MSSP)	-	-	-	\$1.30	BOR, HLVD, POR, PWRT, WDT, XLP	PDIP (P), SOIC (SO), SSOP (SS), 5 x 5 QFN (MQ)
	PIC24F08KL301	R	18	PIC24	8	1024	256	-	1.8V-3.6V	16	8 MHz, 32 kHz	-	-	-	2	-	-	6	3	2	2 UART, 2 SPI/PC (MSSP)	-	-	-	\$1.27	BOR, HLVD, POR, PWRT, WDT, XLP	PDIP (P), SOIC (SO), SSOP (SS), 5 x 5 QFN (MQ)
	PIC24F08KL401	R	18	PIC24	8	1024	512	-	1.8V-3.6V	16	8 MHz, 32 kHz	-	1 ADC, 12 ch 10-bit	-	2	-	-	6	3	2	2 UART, 2 SPI/PC (MSSP)	-	-	-	\$1.36	BOR, HLVD, POR, PWRT, WDT, XLP	PDIP (P), SOIC (SO), SSOP (SS), 5 x 5 QFN (MQ)
	PIC24F16KL401	R	18	PIC24	16	1024	512	-	1.8V-3.6V	16	8 MHz, 32 kHz	-	1 ADC, 12 ch 10-bit	-	2	-	-	6	3	2	2 UART, 2 SPI/PC (MSSP)	-	-	-	\$1.43	BOR, HLVD, POR, PWRT, WDT, XLP	PDIP (P), SOIC (SO), SSOP (SS), 5 x 5 QFN (MQ)
	PIC24F08KA101	R	18	PIC24	8	1536	512	-	1.8V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 9 ch 10-bit	-	2	-	-	1	1	3	2 UART, 1 SPI, 1 I²C	-	-	-	\$1.44	BOR, POR, WDT, Deep Sleep, XLP	PDIP (P), SOIC (SO), SSOP (SS), QFN (MQL)
	PIC24F16KA101	R	18	PIC24	16	1536	512	-	1.8V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 9 ch 10-bit	-	2	-	-	1	1	3	2 UART, 1 SPI, 1 I²C	-	-	-	\$1.51	BOR, POR, WDT, Deep Sleep, XLP	PDIP (P), SOIC (SO), SSOP (SS), QFN (MQL)
	PIC24FJ16MC101	R	15	PIC24	16	1024	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	1 ADC, 4 ch 10-bit	-	3	-	-	8	3	3	1 UART, 1 SPI, 1 I²C	-	-	-	\$1.57	BOR, POR, WDT	PDIP (P), SOIC (SO), SSOP (SS), QFN (MQL)
	PIC24FJ32MC101	R	15	PIC24	32	2048	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10-bit	-	3	-	-	8	3	5	1 UART, 1 SPI, 1 I²C	-	-	-	\$1.68	BOR, POR, WDT	PDIP (P), SOIC (SO), SSOP (SS), QFN (MQL)
28-Pin	PIC24F16KA301	R	18	PIC24	16	2048	512	-	1.8V-5.5V	16	8 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kbps	-	3	-	-	3	3	5	2 UART, 2 SPI, 2 I²C	-	-	-	\$1.86	PWRT, HLVD, POR, OST, WDT	SPDIP (SP), SSOP (SS), SOIC (SO)
	PIC24F32KA301	R	18	PIC24	32	2048	512	-	1.8V-5.5V	16	8 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kbps	-	3	-	-	3	3	5	2 UART, 2 SPI, 2 I²C	-	-	-	\$2.00	PWRT, HLVD, POR, OST, WDT	SPDIP (SP), SSOP (SS), SOIC (SO)
	PIC24F08KL302	R	24	PIC24	8	1024	256	-	1.8V-3.6V	16	8 MHz, 32 kHz	-	-	-	2	-	-	6	3	2	2 UART, 2 SPI/PC (MSSP)	-	-	-	\$1.32	BOR, HLVD, POR, PWRT, WDT, XLP	SPDIP (SP), SOIC (SO), SSOP (SS), 5 x 5 QFN (MQ), 6 x 6 QFN (ML)
	PIC24F08KL402	R	24	PIC24	8	1024	512	-	1.8V-3.6V	16	8 MHz, 32 kHz	-	1 ADC, 12 ch 10-bit	-	2	-	-	6	3	2	2 UART, 2 SPI/PC (MSSP)	-	-	-	\$1.40	BOR, HLVD, POR, PWRT, WDT, XLP	SPDIP (SP), SOIC (SO), SSOP (SS), 5 x 5 QFN (MQ), 6 x 6 QFN (ML)
	PIC24F16KL402	R	24	PIC24	16	1024	512	-	1.8V-3.6V	16	8 MHz, 32 kHz	-	1 ADC, 12 ch 10-bit	-	2	-	-	6	3	2	2 UART, 2 SPI/PC (MSSP)	-	-	-	\$1.47	BOR, HLVD, POR, PWRT, WDT, XLP	SPDIP (SP), SOIC (SO), SSOP (SS), 5 x 5 QFN (MQ), 6 x 6 QFN (ML)
	PIC24F08KA102	R	24	PIC24	8	1536	512	-	1.8V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 9 ch 10-bit	-	2	-	-	1	1	3	2 UART, 1 SPI, 1 I²C	-	-	-	\$1.51	BOR, POR, WDT, Deep Sleep, XLP	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)
	PIC24F16KA102	R	24	PIC24	16	1536	512	-	1.8V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 9 ch 10-bit	-	2	-	-	1	1	3	2 UART, 1 SPI, 1 I²C	-	-	-	\$1.58	BOR, POR, WDT, Deep Sleep, XLP	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)
	PIC24FJ16MC102	R	21	PIC24	16	2048	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	1 ADC, 8 ch 10-bit	-	3	-	-	8	3	5	1 UART, 1 SPI, 1 I²C	-	-	-	\$1.68	BOR, POR, WDT	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)
	PIC24FJ16GA002	R	21	PIC24	16	4096	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	-	1 ADC, 10 ch 10-bit	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I²C	-	-	-	\$1.74	BOR, LVD, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)
	PIC24FJ32MC102	R	21	PIC24	32	2048	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	1 ADC, 8 ch 10-bit	-	3	-	-	8	3	5	1 UART, 1 SPI, 1 I²C	-	-	-	\$1.76	BOR, POR, WDT	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)
	PIC24F08KM102	R	24	PIC24	8	1024	512	-	1.8V-5.5V	16	8 MHz, 32 kHz	✓	1 ADC, 8 ch 10-/12-bit, 1100/500 kbps	-	1	-	-	5	5	11	1 UART, 1 SPI/PC (MSSP)	-	-	-	\$1.75	BOR, HLVD, POR, PWRT, OST, XLP	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)
	PIC24F16KM102	R	24	PIC24	16	1024	512	-	1.8V-5.5V	16	8 MHz, 32 kHz	✓	1 ADC, 19 ch 10-/12-bit, 1100/500 kbps	-	1	-	-	5	5	11	1 UART, 1 SPI/PC (MSSP)	-	-	-	\$1.82	BOR, HLVD, POR, PWRT, OST, XLP	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)
	PIC24F08KM202	R	24	PIC24	8	2048	512	-	1.8V-5.5V	16	8 MHz, 32 kHz	✓	1 ADC, 19 ch 10-/12-bit, 1100/500 kbps	-	3	-	-	5	5	11	2 UART, 2 SPI/PC (MSSP)	-	-	-	\$1.82	BOR, HLVD, POR, PWRT, OST, XLP	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)
	PIC24F16KM202	R	24	PIC24	16	2048	512	-	1.8V-5.5V	16	8 MHz, 32 kHz	✓	1 ADC, 19 ch 10-/12-bit, 1100/500 kbps	-	3	-	-	5	5	11	2 UART, 2 SPI/PC (MSSP)	-	-	-	\$1.89	BOR, HLVD, POR, PWRT, OST, XLP	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)
	PIC24FJ32GA002	R	21	PIC24	32	8192	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	-	1 ADC, 10 ch 10-bit	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I²C	-	-	-	\$2.06	BOR, LVD, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)

* Parts available with High Temperature Options (150°C).

Note 1: See Application Note "AN1095: Emulating Data EEPROM".

2: Two 16-bit timers can be concatenated to form a 32-bit timer.

Products sorted by pin count followed by pricing.

† Pricing subject to change; please contact your Microchip representative for most current pricing.

◊ Software PLVD implemented via ADC.

* Usable as a General Purpose Timer.

‡ eXtreme Low Power variants available.

16-BIT PIC® MICROCONTROLLERS (PIC24F)																														
Product	Released (R) Not Released (NR)	I/O Pins	Core	Memory				Voltage Range	Maximum MIPS	Operating Speed	Analog Sensing & Measurement						Communication				Monitors		System Mgmt. Features	Packages (Designator)						
				Program (KB)	Data RAM (B)	EEPROM	DMA #Ch				Charge Time Measurement Unit		ADC		16-bit ADC (diff ch)		Comparators		LCD Segments		Graphics Controller		Output Compare/PWM		Digital Communication		Hardware Crypto			
																								PMP	RTCC/GRC	PPS	5 Ku Pricing†			
28-Pin (Cont.)	PIC24F16KA302	R	24	PIC24	16	2048	512	-	1.8V-5.5V	16	8 MHz, 32 kHz	✓	1 ADC, 10 ch 10-/12-bit, 1100/500 kspss	-	3	-	-	3	3	5	2 UART, 2 SPI, 2 I ^C	-	-	-	✓	-	\$2.06	PWR, HLVD, POR, OST, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)	
	PIC24F32KA302	R	24	PIC24	32	2048	512	-	1.8V-5.5V	16	8 MHz, 32 kHz	✓	1 ADC, 10 ch 10-/12-bit, 1100/500 kspss	-	3	-	-	3	3	5	2 UART, 2 SPI, 2 I ^C	-	-	-	✓	-	\$2.20	PWR, HLVD, POR, OST, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)	
	PIC24FJ32GA102	R	21	PIC24	32	8192	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 10 ch 10-bit	-	3	-	-	5	5	5	2 UART, 2 SPI, 2 I ^C	-	-	✓	✓	✓	\$2.23	BOR, LVD, POR, WDT, Deep Sleep, XLP	SPDIP (SP), SOIC (SO), QFN (ML)	
	PIC24FJ32GB002	R	19	PIC24	32	8192	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 9 ch 10-bit	-	3	-	-	5	5	5	2 UART, 2 SPI, 2 I ^C	✓	-	✓	✓	✓	\$2.44	BOR, LVD, POR, WDT, Deep Sleep, XLP	SPDIP (SP), SOIC (SO), QFN (ML)	
	PIC24FJ64GA002	R	21	PIC24	64	8192	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	-	1 ADC, 10 ch 10-bit	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I ^C	-	-	✓	✓	✓	\$2.48	BOR, LVD, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)	
	PIC24FJ64GA202	R	21	PIC24	64	8192	AN1095 ⁽¹⁾	6	2.0V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 10 ch 10-/12-bit, 1100/500 kspss	-	3	-	-	6	6	5	4 UART, 3 SPI, 2 I ^C	-	✓	-	✓	✓	\$2.51	BOR, HLVD, POR, WDT, OST, XLP	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)	
	PIC24FJ64GA102	R	21	PIC24	64	8192	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 10 ch 10-bit	-	3	-	-	5	5	5	2 UART, 2 SPI, 2 I ^C	-	-	✓	✓	✓	\$2.65	BOR, LVD, POR, WDT, Deep Sleep, XLP	SPDIP (SP), SOIC (SO), QFN (ML)	
	PIC24FJ128GA202	R	21	PIC24	128	8192	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 10 ch 10-/12-bit, 1100/500 kspss	-	3	-	-	6	6	5	4 UART, 3 SPI, 2 I ^C	-	✓	-	✓	✓	\$2.76	BOR, HLVD, POR, WDT, OST, XLP	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)	
	PIC24FJ64GB202	R	20	PIC24	64	8192	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 9 ch 10-bit	-	3	-	-	5	5	5	2 UART, 2 SPI, 2 I ^C	✓	✓	-	✓	✓	\$2.77	BOR, HLVD, POR, WDT, OST, XLP	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)	
	PIC24FJ64GB002	R	19	PIC24	64	8192	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 9 ch 10-bit	-	3	-	-	5	5	5	2 UART, 2 SPI, 2 I ^C	✓	-	✓	✓	✓	\$2.86	BOR, LVD, POR, WDT, Deep Sleep, XLP	SPDIP (SP), SOIC (SO), QFN (ML)	
44-Pin	PIC24FJ128GB202	R	20	PIC24	128	8192	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kspss	-	3	-	-	6	6	5	4 UART, 3 SPI, 2 I ^C	✓	✓	-	✓	✓	\$2.97	BOR, HLVD, POR, WDT, OST, XLP	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)	
	PIC24FJ16GA004	R	35	PIC24	16	4096	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	-	1 ADC, 13 ch 10-bit	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I ^C	-	-	✓	✓	✓	\$1.93	BOR, LVD, POR, WDT	TQFP (PT), QFN (ML)	
	PIC24FJ32MC104	R	35	PIC24	32	2048	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	1 ADC, 14 ch 10-bit	-	3	-	-	8	3	5	1 UART, 1 SPI, 1 I ^C	-	-	-	✓	✓	\$2.02	BOR, POR, WDT	TQFP (PT), TLA, QFN (ML)	
	PIC24F16KM104	R	38	PIC24	16	1024	512	-	1.8V-5.5V	16	8 MHz, 32 kHz	✓	1 ADC, 22 ch 10-/12-bit, 1100/500 kspss	-	1	-	-	5	5	11	1 UART, 1 SPI/I ^C (MSSP)	-	-	-	✓	-	\$2.06	BOR, HLVD, POR, WDT, OST, XLP	TQFP (PT), QFN (ML), UQFN (MV)	
	PIC24F08KM204	R	38	PIC24	8	2048	512	-	1.8V-5.5V	16	8 MHz, 32 kHz	✓	1 ADC, 22 ch 10-/12-bit, 1100/500 kspss	-	3	-	-	5	5	11	2 UART, 2 SPI/I ^C (MSSP)	-	-	-	✓	-	\$2.06	BOR, HLVD, POR, WDT, OST, XLP	TQFP (PT), QFN (ML), UQFN (MV)	
	PIC24F16KM204	R	38	PIC24	16	2048	512	-	1.8V-5.5V	16	8 MHz, 32 kHz	✓	1 ADC, 22 ch 10-/12-bit, 1100/500 kspss	-	3	-	-	5	5	11	2 UART, 2 SPI/I ^C (MSSP)	-	-	-	✓	-	\$2.13	BOR, HLVD, POR, WDT, OST, XLP	TQFP (PT), QFN (ML), UQFN (MV)	
	PIC24FJ32GA004	R	35	PIC24	32	8192	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	-	1 ADC, 13 ch 10-bit	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I ^C	-	-	✓	✓	✓	\$2.30	BOR, LVD, POR, WDT	TQFP (PT), QFN (ML)	
	PIC24F16KA304	R	38	PIC24	16	2048	512	-	1.8V-5.5V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 1100/500 kspss	-	3	-	-	3	3	5	2 UART, 2 SPI, 2 I ^C	-	-	-	✓	-	\$2.30	PWR, HLVD, POR, OST, WDT	TQFP (PT), QFN (ML), UQFN (MV)	
	PIC24FJ32GA104	R	35	PIC24	32	8192	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 13 ch 10-bit	-	3	-	-	5	5	5	2 UART, 2 SPI, 2 I ^C	-	-	✓	✓	✓	\$2.44	BOR, LVD, POR, WDT, Deep Sleep, XLP	TQFP (PT), QFN (ML)	
	PIC24F32KA304	R	38	PIC24	32	2048	512	-	1.8V-5.5V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 1100/500 kspss	-	3	-	-	3	3	5	2 UART, 2 SPI, 2 I ^C	-	-	-	✓	-	\$2.44	BOR, HLVD, POR, OST, WDT	TQFP (PT), QFN (ML), UQFN (MV)	
44-Pin	PIC24FJ32GB004	R	33	PIC24	32	8192	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 13 ch 10-bit	-	3	-	-	5	5	5	2 UART, 2 SPI, 2 I ^C	✓	-	✓	✓	✓	\$2.65	BOR, LVD, POR, WDT, Deep Sleep, XLP	TQFP (PT), QFN (ML)	
	PIC24FJ64GA004	R	35	PIC24	64	8192	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	-	1 ADC, 13 ch 10-bit	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I ^C	-	-	✓	✓	✓	\$2.72	BOR, LVD, POR, WDT	TQFP (PT), QFN (ML)	
	PIC24FJ64GA204	R	35	PIC24	64	8192	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 13 ch 10-/12-bit, 1100/500 kspss	-	3	-	-	6	6	5	4 UART, 3 SPI/ 2 I ^C	-	✓	✓	✓	✓	\$2.72	BOR, HLVD, POR, WDT, OST, XLP	TQFP (PT), QFN (ML)	
	PIC24FJ64GA104	R	35	PIC24	64	8192	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 13 ch 10-bit	-	3	-	-	5	5	5	2 UART, 2 SPI, 2 I ^C	-	-	✓	✓	✓	\$2.86	BOR, LVD, POR, WDT, Deep Sleep, XLP	TQFP (PT), QFN (ML)	
	PIC24FJ64GB204	R	34	PIC24	64	8192	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 12 ch 10-/12-bit, 1100/500 kspss	-	3	-	-	6	6	5	4 UART, 3 SPI/ 2 I ^C	✓	✓	✓	✓	✓	\$2.93	BOR, HLVD, POR, WDT, OST, XLP	TQFP (PT), QFN (ML)	
	PIC24FJ128GA204	R	35	PIC24	128	8192	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 13 ch 10-/12-bit, 1100/500 kspss	-	3	-	-	6	6	5	4 UART, 3 SPI/ 2 I ^C	-	✓	✓	✓	✓	\$2.97	BOR, HLVD, POR, WDT, OST, XLP	TQFP (PT), QFN (ML)	
	PIC24FJ64GB004	R	33	PIC24	64	8192	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 13 ch 10-bit	-	3	-	-	5	5	5	2 UART, 2 SPI, 2 I ^C	✓	-	✓	✓	✓	\$3.07	BOR, LVD, POR, WDT, Deep Sleep, XLP	TQFP (PT), QFN (ML)	
	PIC24FJ128GB204	R	34	PIC24	128	8192	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 12 ch 10-/12-bit, 1100/500 kspss	-	3	-	-	6	6	5	4 UART, 3 SPI/ 2 I ^C	✓	✓	✓	✓	✓	\$3.18	BOR, HLVD, POR, WDT, OST, XLP	TQFP (PT), QFN (ML)	

* Parts available with High Temperature Options (150°C).

Note 1: See Application Note "AN1095: Emulating Data EEPROM".

Note 2: Two 16-bit timers can be concatenated to form a 32-bit timer.

Products sorted by pin count followed by pricing.

† Pricing subject to change; please contact your Microchip representative for most current pricing.

◊ Software PLVD implemented via ADC.

* Integrated Temperature Indicator: Reference Application Note AN1333 for implementation.

‡ eXtreme Low Power variants available.

Product		16-BIT PIC® MICROCONTROLLERS (PIC24F)												Monitors		Packages (Designator)													
		Memory		Operating Speed		Analog Sensing & Measurement				Communication																			
		Program (KB)	Data RAM (B)	EEROM	DMA #Ch	Voltage Range	Maximum MIPS	Internal Oscillator	Charge Time Measurement Unit	ADC	16-bit ADC (diff ch)	Comparators	LCD Segments	Graphics Controller	Output Compare/PWM	Input Capture	16-bit Timer ⁽²⁾	PMP	RTCC/CRC	PPS	\$1 Ku Pricing ⁽¹⁾	System Mgmt. Features							
64-Pin	PIC24FJ64GA306	R	53	PIC24	64	8192	AN1095 ⁽¹⁾	6	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 1100/500 kbps	-	3	240	-	7	7	5	4 UART, 2 SPI, 2 I ² C	-	-	✓	✓	\$2.77	BOR, LVD, POR, WDT, XLP, Deep Sleep	TQFP (PT), QFN (MR)	
	PIC24FJ128GA606	R	53	PIC24	128	32768	AN1095 ⁽¹⁾	8	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 500/200 kbps	-	3	-	-	6	6	5	6 UART, 3 SPI, 3 I ² C	-	-	EPMP	✓	✓	\$2.80	BOR, LVD, POR, WDT, TQFP (PT), QFN (ML)	
	PIC24FJ256GA606	R	53	PIC24	256	32768	AN1095 ⁽¹⁾	8	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 500/200 kbps	-	3	-	-	6	6	5	6 UART, 3 SPI, 3 I ² C	-	-	EPMP	✓	✓	\$2.88	BOR, LVD, POR, WDT, TQFP (PT), QFN (ML)	
	PIC24FJ128GB606	R	53	PIC24	128	32768	AN1095 ⁽¹⁾	8	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 500/200 kbps	-	3	-	-	6	6	5	6 UART, 3 SPI, 3 I ² C	1	-	EPMP	✓	✓	\$2.94	BOR, LVD, POR, WDT, TQFP (PT), QFN (ML)	
	PIC24FJ512GA606	R	53	PIC24	512	32768	AN1095 ⁽¹⁾	8	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 500/200 kbps	-	3	-	-	6	6	5	6 UART, 3 SPI, 3 I ² C	-	-	EPMP	✓	✓	\$2.98	BOR, LVD, POR, WDT, TQFP (PT), QFN (ML)	
	PIC24FJ128GA306	R	53	PIC24	128	8192	AN1095 ⁽¹⁾	6	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 1100/500 kbps	-	3	240	-	7	7	5	4 UART, 2 SPI, 2 I ² C	-	-	✓	✓	✓	\$3.00	BOR, LVD, POR, WDT, XLP, Deep Sleep	TQFP (PT), QFN (MR)
	PIC24FJ64GA006	R	53	PIC24	64	8192	AN1095 ⁽¹⁾	-	2V–3.6V	16	8 MHz, 32 kHz	-	1 ADC, 16 ch 10-bit	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I ² C	-	-	✓	✓	-	\$3.05	BOR, POR, WDT	TQFP (PT)
	PIC24FJ256GB606	R	53	PIC24	256	32768	AN1095 ⁽¹⁾	8	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 500/200 kbps	-	3	-	-	6	6	5	6 UART, 3 SPI, 3 I ² C	1	-	EPMP	✓	✓	\$3.02	BOR, LVD, POR, WDT, TQFP (PT), QFN (ML)	
	PIC24FJ1024GA606	R	53	PIC24	1024	32768	AN1095 ⁽¹⁾	8	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 500/200 kbps	-	3	-	-	6	6	5	6 UART, 3 SPI, 3 I ² C	-	-	EPMP	✓	✓	\$3.11	BOR, LVD, POR, WDT, TQFP (PT), QFN (ML)	
	PIC24FJ512GB606	R	53	PIC24	512	32768	AN1095 ⁽¹⁾	8	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 500/200 kbps	-	3	-	-	6	6	5	6 UART, 3 SPI, 3 I ² C	1	-	EPMP	✓	✓	\$3.12	BOR, LVD, POR, WDT, TQFP (PT), QFN (ML)	
	PIC24FJ64GA406	R	53	PIC24	64	8192	AN1095 ⁽¹⁾	6	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 500/200 kbps	-	3	248	-	-	6	31	6 UART, 4 SPI, 3 I ² C	-	✓	✓	✓	✓	\$3.14	BOR, LVD, POR, WDT, XLP, V _{BAT}	TQFP (PT), QFN (ML)
	PIC24FJ1024GB606	R	53	PIC24	1024	32768	AN1095 ⁽¹⁾	8	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 500/200 kbps	-	3	-	-	6	6	5	6 UART, 3 SPI, 3 I ² C	1	-	EPMP	✓	✓	\$3.25	BOR, LVD, POR, WDT, TQFP (PT), QFN (ML)	
	PIC24FJ128GA406	R	53	PIC24	128	16384	AN1095 ⁽¹⁾	6	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 500/200 kbps	-	3	248	-	-	6	31	6 UART, 4 SPI, 3 I ² C	-	✓	✓	✓	✓	\$3.28	BOR, LVD, POR, WDT, XLP, V _{BAT}	TQFP (PT), QFN (ML)
	PIC24FJ64GA106	R	53	PIC24	64	16384	AN1095 ⁽¹⁾	-	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C	-	-	✓	✓	✓	\$3.32	BOR, LVD, POR, WDT, TQFP (PT), QFN (MR)	
	PIC24FJ64GB406	R	52	PIC24	64	8192	AN1095 ⁽¹⁾	6	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 500/200 kbps	-	3	248	-	-	6	31	6 UART, 4 SPI, 3 I ² C	✓	✓	✓	✓	✓	\$3.35	BOR, LVD, POR, WDT, XLP, V _{BAT}	TQFP (PT), QFN (ML)
	PIC24FJ128GA006	R	53	PIC24	128	8192	AN1095 ⁽¹⁾	-	2V–3.6V	16	8 MHz, 32 kHz	-	1 ADC, 16 ch 10-bit	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I ² C	-	-	✓	✓	-	\$3.35	BOR, POR, WDT	TQFP (PT)
	PIC24FJ256GA406	R	53	PIC24	256	16384	AN1095 ⁽¹⁾	6	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 500/200 kbps	-	3	248	-	-	6	31	6 UART, 4 SPI, 3 I ² C	-	✓	✓	✓	✓	\$3.44	BOR, LVD, POR, WDT, XLP, V _{BAT}	TQFP (PT), QFN (ML)
	PIC24FJ128GB406	R	52	PIC24	128	16384	AN1095 ⁽¹⁾	6	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 500/200 kbps	-	3	248	-	-	6	31	6 UART, 4 SPI, 3 I ² C	✓	✓	✓	✓	✓	\$3.49	BOR, LVD, POR, WDT, XLP, V _{BAT}	TQFP (PT), QFN (ML)
	PIC24FJ128GA106	R	53	PIC24	128	16384	AN1095 ⁽¹⁾	-	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C	-	-	✓	✓	✓	\$3.56	BOR, LVD, POR, WDT, TQFP (PT), QFN (MR)	
	PIC24FJ64GC006	R	48	PIC24	64	8192	AN1095 ⁽¹⁾	6	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 30 ch 10-/12-bit, 1100/500 kbps	2	3	248	-	9	9	5	4 UART, 2 SPI, 2 I ² C	✓	-	✓	✓	✓	\$3.63	BOR, HLVD, POR, WDT, OST, XLP, V _{BAT}	QFN (MR), TQFP (PT)
	PIC24FJ64GB106	R	52	PIC24	64	16384	AN1095 ⁽¹⁾	-	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C	✓	-	✓	✓	✓	\$3.64	BOR, LVD, POR, WDT, TQFP (PT), QFN (MR)	
	PIC24FJ256GB406	R	52	PIC24	256	16384	AN1095 ⁽¹⁾	6	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 500/200 kbps	-	3	248	-	-	6	31	6 UART, 4 SPI, 3 I ² C	✓	✓	✓	✓	✓	\$3.65	BOR, LVD, POR, WDT, XLP, V _{BAT}	TQFP (PT), QFN (ML)
	PIC24FJ128GC006	R	48	PIC24	128	8192	AN1095 ⁽¹⁾	6	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 30 ch 10-/12-bit, 1100/500 kbps	2	3	248	-	9	9	5	4 UART, 2 SPI, 2 I ² C	✓	-	✓	✓	✓	\$3.85	BOR, HLVD, POR, WDT, OST, XLP, V _{BAT}	QFN (MR), TQFP (PT)
	PIC24FJ128GB106	R	52	PIC24	128	16384	AN1095 ⁽¹⁾	-	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C	✓	-	✓	✓	✓	\$3.93	BOR, LVD, POR, WDT, TQFP (PT), QFN (MR)	
	PIC24FJ256GA106	R	53	PIC24	256	16384	AN1095 ⁽¹⁾	-	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C	-	-	✓	✓	✓	\$3.98	BOR, LVD, POR, WDT, TQFP (PT), QFN (MR)	
	PIC24FJ128GB206	R	52	PIC24	128	98304	AN1095 ⁽¹⁾	-	2.2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C	✓	-	✓	✓	✓	\$4.30	BOR, LVD, POR, WDT, TQFP (PT), QFN (MR)	
	PIC24FJ128DA106	R	52	PIC24	128	24576	AN1095 ⁽¹⁾	-	2.2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	✓	9	9	5	4 UART, 3 SPI, 3 I ² C	✓	-	-	✓	✓	\$4.34	BOR, LVD, POR, WDT, TQFP (PT), QFN (MR)	
	PIC24FJ256GB106	R	52	PIC24	256	16384	AN1095 ⁽¹⁾	-	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C	✓	-	✓	✓	✓	\$4.35	BOR, LVD, POR, WDT, TQFP (PT), QFN (MR)	

* Parts available with High Temperature Options (150°C).

Note 1: See Application Note "AN1095: Emulating Data EEPROM".

2: Two 16-bit timers can be concatenated to form a 32-bit timer.

Products sorted by pin count followed by pricing.

† Pricing subject to change; please contact your Microchip representative for most current pricing.

16-BIT PIC® MICROCONTROLLERS (PIC24F)																													
Product		Released (R) Not Released (NR)	I/O Pins	Core	Memory				Operating Speed		Analog Sensing & Measurement				Communication				Monitors	System Mgmt. Features	Packages (Designator)								
					Program (KB)	Data RAM (B)	EEPROM	DMA #Ch			Voltage Range	Maximum MIPS	Internal Oscillator	Charge Time Measurement Unit	ADC	16-bit ADC (diff ch)	Comparators	LCD Segments	Graphics Controller	Output Compare/PWM	Input Capture	16-bit Timer ⁽²⁾	Digital Communication	USB 2.0 (Peripheral, Host, OTG)	Hardware Crypto	PMP	RTCC/CRC	PPS	5 ku Pricing [†]
64-Pin (Cont.)	PIC24FJ256GB206	R	52	PIC24	256	98304	AN1095 ⁽¹⁾	-	2.2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I²C	✓	-	✓	✓	✓	\$4.65	BOR, LVD, POR, WDT	TQFP (PT), QFN (MR)
	PIC24FJ256DA106	R	52	PIC24	256	24576	AN1095 ⁽¹⁾	-	2.2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	✓	9	9	5	4 UART, 3 SPI, 3 I²C	✓	-	✓	✓	\$4.69	BOR, LVD, POR, WDT	TQFP (PT), QFN (MR)	
	PIC24FJ128DA206	R	52	PIC24	128	98304	AN1095 ⁽¹⁾	-	2.2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	✓	9	9	5	4 UART, 3 SPI, 3 I²C	✓	-	✓	✓	\$4.76	BOR, LVD, POR, WDT	TQFP (PT), QFN (MR)	
	PIC24FJ256DA206	R	52	PIC24	256	98304	AN1095 ⁽¹⁾	-	2.2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	✓	9	9	5	4 UART, 3 SPI, 3 I²C	✓	-	✓	✓	\$5.11	BOR, LVD, POR, WDT	TQFP (PT), QFN (MR)	
80-Pin	PIC24FJ64GA308 ⁽²⁾	R	69	PIC24	64	8192	AN1095 ⁽¹⁾	6	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 1100/500 kbps	-	3	368	-	7	7	5	4 UART, 2 SPI, 2 I²C	-	-	✓	✓	✓	\$2.98	BOR, LVD, POR, WDT, XLP, Deep Sleep	TQFP (PT)
	PIC24FJ128GA308 ⁽²⁾	R	69	PIC24	128	8192	AN1095 ⁽¹⁾	6	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 1100/500 kbps	-	3	368	-	7	7	5	4 UART, 2 SPI, 2 I²C	-	-	✓	✓	✓	\$3.23	BOR, LVD, POR, WDT, XLP, Deep Sleep	TQFP (PT)
	PIC24FJ64GA008	R	69	PIC24	64	8192	AN1095 ⁽¹⁾	-	2V–3.6V	16	8 MHz, 32 kHz	-	1 ADC, 16 ch 10-bit	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I²C	-	-	✓	✓	-	\$3.30	BOR, POR, WDT	TQFP (PT)
	PIC24FJ64GA108	R	69	PIC24	64	16384	AN1095 ⁽¹⁾	-	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I²C	-	-	✓	✓	✓	\$3.58	BOR, LVD, POR, WDT	TQFP (PT)
	PIC24FJ128GA008	R	69	PIC24	128	8192	AN1095 ⁽¹⁾	-	2V–3.6V	16	8 MHz, 32 kHz	-	1 ADC, 16 ch 10-bit	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I²C	-	-	✓	✓	-	\$3.60	BOR, POR, WDT	TQFP (PT)
	PIC24FJ128GA108	R	69	PIC24	128	16384	AN1095 ⁽¹⁾	-	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I²C	-	-	✓	✓	✓	\$3.82	BOR, LVD, POR, WDT	TQFP (PT)
	PIC24FJ64GB108	R	68	PIC24	64	16384	AN1095 ⁽¹⁾	-	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I²C	✓	-	✓	✓	✓	\$3.91	BOR, LVD, POR, WDT	TQFP (PT)
	PIC24FJ128GB108	R	68	PIC24	128	16384	AN1095 ⁽¹⁾	-	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I²C	✓	-	✓	✓	✓	\$4.20	BOR, LVD, POR, WDT	TQFP (PT)
	PIC24FJ256GA108	R	69	PIC24	256	16384	AN1095 ⁽¹⁾	-	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I²C	-	-	✓	✓	✓	\$4.24	BOR, LVD, POR, WDT	TQFP (PT)
	PIC24FJ256GB108	R	68	PIC24	256	16384	AN1095 ⁽¹⁾	-	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I²C	✓	-	✓	✓	✓	\$4.62	BOR, LVD, POR, WDT	TQFP (PT)
100-Pin	PIC24FJ128GA610	R	85	PIC24	128	32768	AN1095 ⁽¹⁾	8	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 500/200 kbps	-	3	-	-	6	6	5	6 UART, 3 SPI, 3 I²C	-	-	EPMP	✓	✓	\$2.97	BOR, LVD, POR, WDT	TQFP (PT), TFBGA (BG)
	PIC24FJ256GA610	R	85	PIC24	256	32768	AN1095 ⁽¹⁾	8	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 500/200 kbps	-	3	-	-	6	6	5	6 UART, 3 SPI, 3 I²C	-	-	EPMP	✓	✓	\$3.05	BOR, LVD, POR, WDT	TQFP (PT), TFBGA (BG)
	PIC24FJ128GB610	R	85	PIC24	128	32768	AN1095 ⁽¹⁾	8	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 500/200 kbps	-	3	-	-	6	6	5	6 UART, 3 SPI, 3 I²C	1	-	EPMP	✓	✓	\$3.11	BOR, LVD, POR, WDT	TQFP (PT), TFBGA (BG)
	PIC24FJ512GA610	R	85	PIC24	512	32768	AN1095 ⁽¹⁾	8	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 500/200 kbps	-	3	-	-	6	6	5	6 UART, 3 SPI, 3 I²C	-	-	EPMP	✓	✓	\$3.16	BOR, LVD, POR, WDT	TQFP (PT), TFBGA (BG)
	PIC24FJ64GA310 ⁽²⁾	R	85	PIC24	64	8192	AN1095 ⁽¹⁾	6	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 1100/500 kbps	-	3	480	-	7	7	5	4 UART, 2 SPI, 2 I²C	-	-	✓	✓	✓	\$3.16	BOR, LVD, POR, WDT, Deep Sleep	TQFP (PT), BGA121 (BG)
	PIC24FJ256GB610	R	85	PIC24	256	32768	AN1095 ⁽¹⁾	8	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 500/200 kbps	-	3	-	-	6	6	5	6 UART, 3 SPI, 3 I²C	1	-	EPMP	✓	✓	\$3.19	BOR, LVD, POR, WDT	TQFP (PT), TFBGA (BG)
	PIC24FJ1024GA610	R	85	PIC24	1024	32768	AN1095 ⁽¹⁾	8	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 500/200 kbps	-	3	-	-	6	6	5	6 UART, 3 SPI, 3 I²C	-	-	EPMP	✓	✓	\$3.28	BOR, LVD, POR, WDT	TQFP (PT), TFBGA (BG)
	PIC24FJ512GB610	R	85	PIC24	512	32768	AN1095 ⁽¹⁾	8	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 500/200 kbps	-	3	-	-	6	6	5	6 UART, 3 SPI, 3 I²C	1	-	EPMP	✓	✓	\$3.30	BOR, LVD, POR, WDT	TQFP (PT), TFBGA (BG)
	PIC24FJ1024GB610	R	85	PIC24	1024	32768	AN1095 ⁽¹⁾	8	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 500/200 kbps	-	3	-	-	6	6	5	6 UART, 3 SPI, 3 I²C	1	-	EPMP	✓	✓	\$3.42	BOR, LVD, POR, WDT	TQFP (PT), TFBGA (BG)
	PIC24FJ128GA310 ⁽²⁾	R	85	PIC24	128	8192	AN1095 ⁽¹⁾	6	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 1100/500 kbps	-	3	480	-	7	7	5	4 UART, 2 SPI, 2 I²C	-	-	✓	✓	✓	\$3.42	BOR, LVD, POR, WDT, Deep Sleep	TQFP (PT), BGA121 (BG)
	PIC24FJ64GA410 ⁽²⁾	R	85	PIC24	64	8192	AN1095 ⁽¹⁾	6	2V–3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 500/200 kbps	-	3	480	-	-	6	31	6 UART, 4 SPI, 3 I²C	-	✓	✓	✓	✓	\$3.51	BOR, LVD, POR, WDT, XLP, V _{bat}	TQFP (PT)
	PIC24FJ64GA010	R	85	PIC24	64	8192	AN1095 ⁽¹⁾	-	2V–3.6V	16	8 MHz, 32 kHz	-	1 ADC, 16 ch 10-bit	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I²C	-	-	✓	✓	-	\$3.51	BOR, POR, WDT	TQFP (PT)

* Parts available with High Temperature Options (150°C).

Note 1: See Application Note "AN1095: Emulating Data EEPROM".

2: Two 16-bit timers can be concatenated to form a 32-bit timer.

Product		Released (R) Not Released (NR)		I/O Pins	Core	Memory			Voltage Range	Operating Speed		Analog Sensing & Measurement			Communication			Monitors		System Mgmt. Features	Packages (Designator)								
		Program (KB)	Data RAM (B)			EEPROM	DMA #Ch	Maximum MIPS		Internal Oscillator	Charge Time Measurement Unit	ADC	16-bit ADC (diff ch)	Comparators	LCD Segments	Graphics Controller	Output Compare/PWM	Input Capture	16-bit Timer ²⁾	Digital Communication	USB 2.0 (Peripheral, Host, DTC)	Hardware Crypto	PMP	RTCC/CRC	PPS	5 Ku Pricing [†]			
100-Pin (Cont.)	PIC24FJ128GA410	R	85	PIC24	128	16384	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 500/200 kspss	-	3	480	-	-	6	31	6 UART, 4 SPI, 3 I ² C	-	✓	✓	✓	✓	\$3.65	BOR, LVD, POR, WDT, XLP, V _{BAT}	TQFP (PT)
	PIC24FJ64GB410	R	84	PIC24	64	8192	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 500/200 kspss	-	3	480	-	-	6	31	6 UART, 4 SPI, 3 I ² C	✓	✓	✓	✓	✓	\$3.72	BOR, LVD, POR, WDT, XLP, V _{BAT}	TQFP (PT)
	PIC24FJ64GA110	R	85	PIC24	64	16384	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C	-	-	✓	✓	✓	\$3.79	BOR, LVD, POR, WDT, TQFP (PT), BGA121 (BG)	
	PIC24FJ64GC010	R	80	PIC24	64	8192	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 50 ch 10-/12-bit, 1100/500 kspss	2	3	472	-	9	9	5	4 UART, 2 SPI, 2 I ² C,	✓	-	✓	✓	✓	\$3.79	BOR, HLV, POR, WDT, OST, XLP, V _{BAT}	TQFP (PT), BGA (BG)
	PIC24FJ128GA010	R	85	PIC24	128	8192	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	-	1 ADC, 16 ch 10-bit	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I ² C	-	-	✓	✓	-	\$3.81	BOR, POR, WDT	TQFP (PT)
	PIC24FH256GA410	R	85	PIC24	256	16384	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 500/200 kspss	-	3	480	-	-	6	31	6 UART, 4 SPI, 3 I ² C	-	✓	✓	✓	✓	\$3.82	BOR, LVD, POR, WDT, XLP, V _{BAT}	TQFP (PT)
	PIC24FJ128GB410	R	84	PIC24	128	16384	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 500/200 kspss	-	3	480	-	-	6	31	6 UART, 4 SPI, 3 I ² C	✓	✓	✓	✓	✓	\$3.86	BOR, LVD, POR, WDT, XLP, V _{BAT}	TQFP (PT)
	PIC24FJ128GC010	R	80	PIC24	128	8192	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 50 ch 10-/12-bit, 1100/500 kspss	2	3	472	-	9	9	5	4 UART, 2 SPI, 2 I ² C,	✓	-	✓	✓	✓	\$4.02	BOR, HLV, POR, WDT, OST, XLP, V _{BAT}	TQFP (PT), BGA (BG)
	PIC24FJ256GB410	R	84	PIC24	256	16384	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 500/200 kspss	-	3	480	-	-	6	31	6 UART, 4 SPI, 3 I ² C	✓	✓	✓	✓	✓	\$4.03	BOR, LVD, POR, WDT, XLP, V _{BAT}	TQFP (PT)
	PIC24FJ128GA110	R	85	PIC24	128	16384	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C	-	-	✓	✓	✓	\$4.03	BOR, LVD, POR, WDT, TQFP (PT), BGA121 (BG)	
	PIC24FJ64GB110	R	84	PIC24	64	16384	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C	✓	-	✓	✓	✓	\$4.12	BOR, LVD, POR, WDT, TQFP (PT), BGA121 (BG)	
	PIC24FJ128GB110	R	84	PIC24	128	16384	AN1095 ⁽¹⁾	-	2V-3.6V	16	16 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C	✓	-	✓	✓	✓	\$4.41	BOR, LVD, POR, WDT, TQFP (PT), BGA121 (BG)	
	PIC24FJ256GA110	R	85	PIC24	256	16384	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C	-	-	✓	✓	✓	\$4.45	BOR, LVD, POR, WDT, TQFP (PT), BGA121 (BG)	
	PIC24FJ128GB210	R	84	PIC24	128	98304	AN1095 ⁽¹⁾	-	2.2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-bit	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C	✓	-	✓	✓	✓	\$4.79	BOR, LVD, POR, WDT, TQFP (PT), BGA121 (BG)	
	PIC24FJ128DA110	R	84	PIC24	128	24576	AN1095 ⁽¹⁾	-	2.2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-bit	-	3	-	✓	9	9	5	4 UART, 3 SPI, 3 I ² C	✓	-	✓	✓	✓	\$4.83	BOR, LVD, POR, WDT, TQFP (PT), BGA121 (BG)	
	PIC24FJ256GB110	R	84	PIC24	256	16384	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 16 ch 10-bit	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C	✓	-	✓	✓	✓	\$4.83	BOR, LVD, POR, WDT, TQFP (PT), BGA121 (BG)	
	PIC24FJ256GB210	R	84	PIC24	256	98304	AN1095 ⁽¹⁾	-	2.2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-bit	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C	✓	-	✓	✓	✓	\$5.14	BOR, LVD, POR, WDT, TQFP (PT), BGA121 (BG)	
	PIC24FJ256DA110	R	84	PIC24	256	24576	AN1095 ⁽¹⁾	-	2.2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-bit	-	3	-	✓	9	9	5	4 UART, 3 SPI, 3 I ² C	✓	-	✓	✓	✓	\$5.18	BOR, LVD, POR, WDT, TQFP (PT), BGA121 (BG)	
	PIC24FJ128DA210	R	84	PIC24	128	98304	AN1095 ⁽¹⁾	-	2.2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-bit	-	3	-	✓	9	9	5	4 UART, 3 SPI, 3 I ² C	✓	-	✓	✓	✓	\$5.25	BOR, LVD, POR, WDT, TQFP (PT), BGA121 (BG)	
	PIC24FJ256DA210	R	84	PIC24	256	98304	AN1095 ⁽¹⁾	-	2.2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-bit	-	3	-	✓	9	9	5	4 UART, 3 SPI, 3 I ² C	✓	-	✓	✓	✓	\$5.60	BOR, LVD, POR, WDT, TQFP (PT), BGA121 (BG)	
121-Pin	PIC24FJ64GA412	R	102	PIC24	64	8192	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 500/200 kspss	-	3	512	-	-	6	31	6 UART, 4 SPI, 3 I ² C	-	✓	✓	✓	✓	\$3.79	BOR, LVD, POR, WDT, XLP, V _{BAT}	XBGA (BG)
	PIC24FJ128GA412	R	102	PIC24	128	16384	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 500/200 kspss	-	3	512	-	-	6	31	6 UART, 4 SPI, 3 I ² C	-	✓	✓	✓	✓	\$3.93	BOR, LVD, POR, WDT, XLP, V _{BAT}	XBGA (BG)
	PIC24FJ64GB412	R	101	PIC24	64	8192	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 500/200 kspss	-	3	512	-	-	6	31	6 UART, 4 SPI, 3 I ² C	✓	✓	✓	✓	✓	\$4.00	BOR, LVD, POR, WDT, XLP, V _{BAT}	XBGA (BG)
	PIC24FJ256GA412	R	102	PIC24	256	16384	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 500/200 kspss	-	3	512	-	-	6	31	6 UART, 4 SPI, 3 I ² C	-	✓	✓	✓	✓	\$4.10	BOR, LVD, POR, WDT, XLP, V _{BAT}	XBGA (BG)
	PIC24FJ128GB412	R	101	PIC24	128	16384	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 500/200 kspss	-	3	512	-	-	6	31	6 UART, 4 SPI, 3 I ² C	✓	✓	✓	✓	✓	\$4.14	BOR, LVD, POR, WDT, XLP, V _{BAT}	XBGA (BG)
	PIC24FJ256GB412	R	101	PIC24	256	16384	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 500/200 kspss	-	3	512	-	-	6	31	6 UART, 4 SPI, 3 I ² C	✓	✓	✓	✓	✓	\$4.31	BOR, LVD, POR, WDT, XLP, V _{BAT}	XBGA (BG)

* Parts available with High Temperature Options (150°C).

Note 1: See Application Note "AN1095: Emulating Data EEPROM".

2: Two 16-bit timers can be concatenated to form a 32-bit timer.

Products sorted by pin count followed by pricing.

† Pricing subject to change; please contact your Microchip representative for most current pricing.

16-BIT PIC® MICROCONTROLLERS (PIC24H/E)																													
Product		Released (R) Not Released (NR)		I/O Pins		Core		Memory			Voltage Range		Operating Speed		Analog Sensing & Measurement	Communication	Monitors	Packages (Designator)											
								Program (KB)	Data RAM (B)	EEPROM					Charge Time Measurement Unit	ADC	Comparators	Op Amps	Output Compare/PWM	Motor Control PWM Ch.	QEI	Input Capture	16-bit Timer ⁽²⁾	CAN	FS USB OTG	PMP	RTCC/CRC	PPS	
18-Pin	PIC24HJ12GP201	R	13	PIC24	12	1	AN1095 ⁽¹⁾	-	3V–3.6V	40	7.37 MHz, 32 kHz	-	1 ADC, 6 ch 10-/12-bit, 1100/500 kps	-	-	2	-	4	3	1 UART, 1 SPI, 1 I²C	-	-	-	-	✓	\$2.09	PBOR, POR, WDT	PDIP (P), SOIC(SO)	
	PIC24EP32MC202	R	21	PIC24	32	4	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10-/12-bit, 1100/500 kps	1+2*	2	10	6	1	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$1.89	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	PIC24EP32GP202	R	21	PIC24	32	4	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10-/12-bit, 1100/500 kps	1+2*	2	4	-	-	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$1.89	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	PIC24EP64MC202	R	21	PIC24	64	8	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10-/12-bit, 1100/500 kps	1+2*	2	10	6	1	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.45	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	PIC24EP64GP202	R	21	PIC24	64	8	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10-/12-bit, 1100/500 kps	1+2*	2	4	-	-	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.45	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	PIC24EP128MC202	R	21	PIC24	128	16	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10-/12-bit, 1100/500 kps	1+2*	2	10	6	1	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.66	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	PIC24EP128GP202	R	21	PIC24	128	16	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10-/12-bit, 1100/500 kps	1+2*	2	4	-	-	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.66	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	PIC24EP256MC202	R	21	PIC24	256	32	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10-/12-bit, 1100/500 kps	1+2*	2	10	6	1	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$3.14	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	PIC24EP256GP202	R	21	PIC24	256	32	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10-/12-bit, 1100/500 kps	1+2*	2	4	-	-	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$3.14	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	PIC24EP512MC202	R	21	PIC24	512	48	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10-/12-bit, 1100/500 kps	1+2*	2	10	6	1	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$3.50	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	PIC24EP512GP202	R	21	PIC24	512	48	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10-/12-bit, 1100/500 kps	1+2*	2	4	-	-	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$3.50	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
44-Pin	PIC24EP32MC204	R	35	PIC24	32	4	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kps	1+3*	3	10	6	1	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.03	PBOR, POR, WDT	QFN (ML), TQFP (PT)
	PIC24EP32GP204	R	35	PIC24	32	4	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kps	1+3*	3	4	-	-	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.03	PBOR, POR, WDT	QFN (ML), TQFP (PT)
	PIC24EP64MC204	R	35	PIC24	64	8	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kps	1+3*	3	10	6	1	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.59	PBOR, POR, WDT	QFN (ML), TQFP (PT)
	PIC24EP64GP204	R	35	PIC24	64	8	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kps	1+3*	3	4	-	-	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.59	PBOR, POR, WDT	QFN (ML), TQFP (PT)
	PIC24EP128MC204	R	35	PIC24	128	16	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kps	1+3*	3	10	6	1	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.80	PBOR, POR, WDT	QFN (ML), TQFP (PT)
	PIC24EP128GP204	R	35	PIC24	128	16	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kps	1+3*	3	4	-	-	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.80	PBOR, POR, WDT	QFN (ML), TQFP (PT)
	PIC24EP256MC204	R	35	PIC24	256	32	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kps	1+3*	3	10	6	1	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$3.28	PBOR, POR, WDT	QFN (ML), TQFP (PT)
	PIC24EP256GP204	R	35	PIC24	256	32	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kps	1+3*	3	4	-	-	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$3.28	PBOR, POR, WDT	QFN (ML), TQFP (PT)
	PIC24EP512MC204	R	35	PIC24	512	48	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kps	1+3*	3	10	6	1	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$3.64	PBOR, POR, WDT	QFN (ML), TQFP (PT)
	PIC24EP512GP204	R	35	PIC24	512	48	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kps	1+3*	3	4	-	-	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$3.64	PBOR, POR, WDT	QFN (ML), TQFP (PT)
64-Pin	PIC24EP64MC206	R	53	PIC24	64	8	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 1100/500 kps	1+3*	3	10	6	1	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.73	PBOR, POR, WDT	QFN (MR), TQFP (PT)
	PIC24EP64GP206	R	53	PIC24	64	8	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 1100/500 kps	1+3*	3	4	-	-	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.73	PBOR, POR, WDT	QFN (MR), TQFP (PT)
	PIC24EP128MC206	R	53	PIC24	128	16	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 1100/500 kps	1+3*	3	10	6	1	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.94	PBOR, POR, WDT	QFN (MR), TQFP (PT)

* Parts available with High Temperature Options (150°C).

† Op amp configured as comparator.

Note 1: See Application Note "AN1095: Emulating Data EEPROM".

2: Two 16-bit timers can be concatenated to form a 32-bit timer.

Products sorted by pin count followed by pricing.

† Pricing subject to change; please contact your Microchip representative for most current pricing.

16-BIT PIC® MICROCONTROLLERS (PIC24H/E)																																	
Product		Released (R) Not Released (NR)		I/O Pins		Core		Memory			Program (KB)		Data RAM (B)		EEPROM		DMA #Ch		Voltage Range		Operating Speed		Analog Sensing & Measurement				Communication				Monitors		Packages (Designator)
64-Pin (Cont.)	PIC24EP128GP206	R	53	PIC24	128	16	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 16 ch 10/12-bit, 1100/500 ksp	1+3*	3	4	–	–	4	5	2 UART, 2 SPI, 1 I ² C	–	–	–	✓	✓	\$2.94	PBOR, POR, WDT	QFN (MR), TQFP (PT)				
	PIC24EP256MC206	R	53	PIC24	256	32	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 16 ch 10/12-bit, 1100/500 ksp	1+3*	3	10	6	1	4	5	2 UART, 2 SPI, 1 I ² C	–	–	–	✓	✓	\$3.42	PBOR, POR, WDT	QFN (MR), TQFP (PT)				
	PIC24EP256GP206	R	53	PIC24	256	32	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 16 ch 10/12-bit, 1100/500 ksp	1+3*	3	4	–	–	4	5	2 UART, 2 SPI, 1 I ² C	–	–	–	✓	✓	\$3.42	PBOR, POR, WDT	QFN (MR), TQFP (PT)				
	PIC24EP512MC206	R	53	PIC24	512	48	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 16 ch 10/12-bit, 1100/500 ksp	1+3*	3	10	6	1	4	5	2 UART, 2 SPI, 1 I ² C	–	–	–	✓	✓	\$3.78	PBOR, POR, WDT	QFN (MR), TQFP (PT)				
	PIC24EP512GP206	R	53	PIC24	512	48	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 16 ch 10/12-bit, 1100/500 ksp	1+3*	3	4	–	–	4	5	2 UART, 2 SPI, 1 I ² C	–	–	–	✓	✓	\$3.78	PBOR, POR, WDT	QFN (MR), TQFP (PT)				
	PIC24EP512GP806	R	53	PIC24	536	52	AN1095 ⁽¹⁾	15	3V–3.6V	70	7.37 MHz, 32 kHz	✓	2 ADC, 24 ch 10/12-bit, 1100/500 ksp	3	–	16	–	–	16	9	4 UART, 2 SPI, 2 I ² C	2	–	✓	✓	✓	\$5.60	PBOR, POR, WDT	QFN (MR), TQFP (PT)				
100-Pin	PIC24HJ64GP210A	R	85	PIC24	64	8	AN1095 ⁽¹⁾	8	3V–3.6V	40	7.37 MHz, 32 kHz	–	1 ADC, 32 ch 10/12-bit, 1100/500 ksp	–	–	8	–	–	8	9	2 UART, 2 SPI, 2 I ² C	–	–	–	–	–	\$3.88	PBOR, POR, WDT	TQFP (PT, PF)				
	PIC24HJ64GP510A	R	85	PIC24	64	8	AN1095 ⁽¹⁾	8	3V–3.6V	40	7.37 MHz, 32 kHz	–	1 ADC, 32 ch 10/12-bit, 1100/500 ksp	–	–	8	–	–	8	9	2 UART, 2 SPI, 2 I ² C	–	–	–	–	–	\$3.88	PBOR, POR, WDT	TQFP (PT, PF)				
	PIC24HJ128GP210A	R	85	PIC24	128	8	AN1095 ⁽¹⁾	8	3V–3.6V	40	7.37 MHz, 32 kHz	–	1 ADC, 32 ch 10/12-bit, 1100/500 ksp	–	–	8	–	–	8	9	2 UART, 2 SPI, 2 I ² C	–	–	–	–	–	\$3.88	PBOR, POR, WDT	TQFP (PT, PF)				
	PIC24HJ128GP310A	R	85	PIC24	128	16	AN1095 ⁽¹⁾	8	3V–3.6V	40	7.37 MHz, 32 kHz	–	1 ADC, 32 ch 10/12-bit, 1100/500 ksp	–	–	8	–	–	8	9	2 UART, 2 SPI, 2 I ² C	–	–	–	–	–	\$3.88	PBOR, POR, WDT	TQFP (PT, PF)				
	PIC24HJ128GP510A	R	85	PIC24	128	8	AN1095 ⁽¹⁾	8	3V–3.6V	40	7.37 MHz, 32 kHz	–	1 ADC, 32 ch 10/12-bit, 1100/500 ksp	–	–	8	–	–	8	9	2 UART, 2 SPI, 2 I ² C	–	–	–	–	–	\$3.88	PBOR, POR, WDT	TQFP (PT, PF)				
	PIC24HJ256GP210A	R	85	PIC24	256	16	AN1095 ⁽¹⁾	8	3V–3.6V	40	7.37 MHz, 32 kHz	–	1 ADC, 32 ch 10/12-bit, 1100/500 ksp	–	–	8	–	–	8	9	2 UART, 2 SPI, 2 I ² C	–	–	–	–	–	\$3.88	PBOR, POR, WDT	TQFP (PT, PF)				
	PIC24HJ256GP610A	R	85	PIC24	256	16	AN1095 ⁽¹⁾	8	3V–3.6V	40	7.37 MHz, 32 kHz	–	2 ADC, 32 ch 10/12-bit, 1100/500 ksp	–	–	8	–	–	8	9	2 UART, 2 SPI, 2 I ² C	2	–	–	–	–	\$3.88	PBOR, POR, WDT	TQFP (PT, PF)				
	PIC24EP512GU810	R	85	PIC24	280	28	AN1095 ⁽¹⁾	15	3V–3.6V	60	7.37 MHz, 32 kHz	–	2 ADC, 32 ch 10/12-bit, 1100/500 ksp	3	–	16	–	–	16	9	4 UART, 4 SPI, 2 I ² C	2	✓	✓	✓	✓	\$5.70	PBOR, POR, WDT	TQFP (PT, PF)				
144-Pin	PIC24EP512GU810	R	85	PIC24	536	52	AN1095 ⁽¹⁾	15	3V–3.6V	60	7.37 MHz, 32 kHz	–	2 ADC, 32 ch 10/12-bit, 1100/500 ksp	3	–	16	–	–	16	9	4 UART, 4 SPI, 2 I ² C	2	✓	✓	✓	✓	\$5.37	PBOR, POR, WDT	TQFP (PT, PF)				
	PIC24EP256GP814	R	122	PIC24	280	28	AN1095 ⁽¹⁾	15	3V–3.6V	60	7.37 MHz, 32 kHz	–	2 ADC, 32 ch 10/12-bit, 1100/500 ksp	3	–	16	–	–	16	9	4 UART, 4 SPI, 2 I ² C	2	✓	✓	✓	✓	\$6.31	PBOR, POR, WDT	TQFP (PH), LQFP (PL)				
	PIC24EP512GU814	R	122	PIC24	536	28	AN1095 ⁽¹⁾	15	3V–3.6V	60	7.37 MHz, 32 kHz	–	2 ADC, 32 ch 10/12-bit, 1100/500 ksp	3	–	16	–	–	16	9	4 UART, 4 SPI, 2 I ² C	2	✓	✓	✓	✓	\$6.99	PBOR, POR, WDT	TQFP (PH), LQFP (PL)				

* Parts available with High Temperature Options (150°C).

† Op amp configured as comparator.

Note 1: See Application Note "AN1095: Emulating Data EEPROM".

2: Two 16-bit timers can be concatenated to form a 32-bit timer.

dsPIC33 DSC GENERAL PURPOSE AND MOTOR CONTROL FAMILY

Product		Released (R) Not Released (NR)		I/O Pins		Core		Memory			Program (KB)		Data RAM (B)		EEPROM		DMA #Ch		Voltage Range		Operating Speed		Analog Sensing & Measurement				Communication				Monitors		Packages (Designator)
20-Pin	dsPIC33FJ16GP101*	R	13	dsPIC® DSC	16	1	AN1095 ⁽¹⁾	–	3V–3.6V	16	7.37 MHz, 32 kHz	✓	1 ADC, 4 ch 10-bit	–	3	–	2	3	–	–	3	1 UART, 1 SPI, 1 I ² C	–	–	–	✓	✓	\$1.57	BOR, POR, WDT	PDIP (P), SOIC (SO), SSOP (SS)			
	dsPIC33FJ16MC101*	R	15	dsPIC DSC	16	1	AN1095 ⁽¹⁾	–	3V–3.6V	16	7.37 MHz, 32 kHz	✓	1 ADC, 4 ch 10-bit	–	3	–	2	3	6	–	3	1 UART, 1 SPI, 1 I ² C	–	–	–	✓	✓	\$1.57	BOR, POR, WDT	PDIP (P), SOIC (SO), SSOP (SS)			
	dsPIC33FJ32GP101*	R	13	dsPIC DSC	32	2	AN1095 ⁽¹⁾	–	3V–3.6V	16	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10/12-bit, 1100/500 ksp	–	3	–	2	3	–	–	5	1 UART, 1 SPI, 1 I ² C	–	–	–	✓	✓	\$1.68	BOR, POR, WDT	PDIP (P), SOIC (SO), SSOP (SS)			
	dsPIC33FJ32MC101*	R	15	dsPIC DSC	32	2	AN1095 ⁽¹⁾	–	3V–3.6V	16	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10/12-bit, 1100/500 ksp	–	3	–	2	3	6	–	5	1 UART, 1 SPI, 1 I ² C	–	–	–	✓	✓	\$1.68	BOR, POR, WDT	PDIP (P), SOIC (SO), SSOP (SS)			

* Parts available with High Temperature Options (150°C).

† Op amp configured as comparator.

Note 1: See Application Note "AN1095: Emulating Data EEPROM".

2: Two 16-bit timers can be concatenated to form a 32-bit timer.

Products sorted by pin count followed by pricing.

† Pricing subject to change; please contact your Microchip representative for most current pricing.

dsPIC33 DSC GENERAL PURPOSE AND MOTOR CONTROL FAMILY																																			
Product		Released (R) Not Released (NR)		I/O Pins		Core		Memory				Voltage Range		Operating Speed		Analog Sensing & Measurement				Digital Communication		CAN		PMP		RTCC/CRC		PPS		Monitors		System Mgmt. Features		Packages (Designator)	
28Pin	dsPIC33FJ16GP102*	R	21	dsPIC® DSC	16	1	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10-bit	-	3	-	2	3	-	3	1 UART, 1 SPI, 1 I²C	-	-	-	✓	✓	\$1.68	BOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MQL)						
	dsPIC33FJ16MC102*	R	21	dsPIC DSC	16	1	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓		-	3	-	2	3	6	-	3	1 UART, 1 SPI, 1 I²C	-	-	-	✓	✓	\$1.68	BOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MQL)					
	dsPIC33FJ32GP102*	R	21	dsPIC DSC	32	2	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	1 ADC, 8 ch 10/12-bit, 1100/500 kspss	-	3	-	2	3	-	-	5	1 UART, 1 SPI, 1 I²C	-	-	-	✓	✓	\$1.73	BOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MQL)					
	dsPIC33FJ32MC102*	R	21	dsPIC DSC	32	2	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓		-	3	-	2	3	6	-	5	1 UART, 1 SPI, 1 I²C	-	-	-	✓	✓	\$1.73	BOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)					
	dsPIC33EV32GM002*	R	21	dsPIC DSC	32	4	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓	1 ADC, 11 ch 10/12-bit, 1100/500 kspss	1x7-bit	4	3	4	4	6	-	5	2 UART, 2 SPI, 1 I²C	-	-	-	-	✓	\$2.09	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MN)					
	dsPIC33EP32GP502*	R	21	dsPIC DSC	32	4	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓		-	1 + 2 [†]	2	4	4	-	-	5	2 UART, 2 SPI, 1 I²C	1	-	-	✓	✓	\$2.10	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)					
	dsPIC33EP32MC502*	R	21	dsPIC DSC	32	4	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10/12-bit, 1100/500 kspss	-	1 + 2 [†]	2	4	4	6	1	5	2 UART, 2 SPI, 1 I²C	1	-	-	✓	✓	\$2.10	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)					
	dsPIC33EV32GM102*	R	32	dsPIC DSC	32	4	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓		1x7-bit	4	3	4	4	6	-	5	2 UART, 2 SPI, 1 I²C	1	-	-	-	✓	\$2.30	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MN)					
	dsPIC33EP64MC202*	R	21	dsPIC DSC	64	8	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10/12-bit, 1100/500 kspss	-	1 + 2 [†]	2	4	4	6	1	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.45	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)					
	dsPIC33EV64GM002*	R	21	dsPIC DSC	64	8	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓		1x7-bit	4	3	4	4	6	-	5	2 UART, 2 SPI, 1 I²C	-	-	-	-	✓	\$2.65	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MM)					
	dsPIC33EP64GP502*	R	21	dsPIC DSC	64	8	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10/12-bit, 1100/500 kspss	-	1 + 2 [†]	2	4	4	-	-	5	2 UART, 2 SPI, 1 I²C	1	-	-	✓	✓	\$2.66	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)					
	dsPIC33EP64MC502*	R	21	dsPIC DSC	64	8	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓		-	1 + 2 [†]	2	4	4	6	1	5	2 UART, 2 SPI, 1 I²C	1	-	-	✓	✓	\$2.66	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)					
	dsPIC33EP128MC202*	R	21	dsPIC DSC	128	16	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10/12-bit, 1100/500 kspss	-	1 + 2 [†]	2	4	4	6	1	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.66	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)					
	dsPIC33EV64GM102*	R	21	dsPIC DSC	64	8	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓		1x7-bit	4	3	4	4	6	-	5	2 UART, 2 SPI, 1 I²C	1	-	-	-	✓	\$2.86	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MM)					
	dsPIC33EV128GM002*	R	21	dsPIC DSC	128	8	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓	1 ADC, 11 ch 10/12-bit, 1100/500 kspss	1x7-bit	4	3	4	4	6	-	5	2 UART, 2 SPI, 1 I²C	-	-	-	-	✓	\$2.86	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MM)					
	dsPIC33EP128GP502*	R	21	dsPIC DSC	128	16	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓		-	1 + 2 [†]	2	4	4	-	-	5	2 UART, 2 SPI, 1 I²C	1	-	-	✓	✓	\$2.87	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)					
	dsPIC33EP128MC502*	R	21	dsPIC DSC	128	16	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10/12-bit, 1100/500 kspss	-	1 + 2 [†]	2	4	4	6	1	5	2 UART, 2 SPI, 1 I²C	1	-	-	✓	✓	\$2.87	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)					
	dsPIC33EV128GM102*	R	21	dsPIC DSC	128	8	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓		1x7-bit	4	3	4	4	6	-	5	2 UART, 2 SPI, 1 I²C	1	-	-	-	✓	\$3.07	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MM)					
	dsPIC33EP256MC202*	R	21	dsPIC DSC	256	32	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10/12-bit, 1100/500 kspss	-	1 + 2 [†]	2	4	4	6	1	5	2 UART, 2 SPI, 1 I²C	1	-	-	✓	✓	\$3.14	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)					
	dsPIC33EV256GM002*	R	21	dsPIC DSC	256	16	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓		1x7-bit	4	3	4	4	6	-	5	2 UART, 2 SPI, 1 I²C	-	-	-	-	✓	\$3.28	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MM)					
	dsPIC33EP256GP502*	R	21	dsPIC DSC	256	32	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10/12-bit, 1100/500 kspss	-	1 + 2 [†]	2	4	4	-	-	5	2 UART, 2 SPI, 1 I²C	1	-	-	✓	✓	\$3.35	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)					
	dsPIC33EP256MC502*	R	21	dsPIC DSC	256	32	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓		-	1 + 2 [†]	2	4	4	6	1	5	2 UART, 2 SPI, 1 I²C	1	-	-	✓	✓	\$3.35	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)					
	dsPIC33FJ64GP802	R	21	dsPIC DSC	64	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	✓	1 ADC, 13 ch 12-bit	4x16-bit	1	2	4	4	-	-	5	2 UART, 2 SPI, 1 I²C	1	-	-	✓	✓	\$3.42	BOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN-S (MM)					
	dsPIC33EV256GM102*	R	21	dsPIC DSC	256	16	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓	1 ADC, 11 ch 10/12-bit, 1100/500 kspss	1x7-bit	4	3	4	4	6	-	5	2 UART, 2 SPI, 1 I²C	1	-	-	-	✓	\$3.49	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MM)					
	dsPIC33EP512MC202*	R	21	dsPIC DSC	512	48	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10/12-bit, 1100/500 kspss	-	1 + 2 [†]	2	4	4	6	1	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$3.50	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)					
	dsPIC33EP512GP502*	R	21	dsPIC DSC	512	48	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10/12-bit, 1100/500 kspss	-	1 + 2 [†]	2	4	4	-	-	5	2 UART, 2 SPI, 1 I²C	1	-	-	✓	✓	\$3.71	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)					
	dsPIC33EP512MC502*	R	21	dsPIC DSC	512	48	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 6 ch 10/12-bit, 1100/500 kspss	-	1 + 2 [†]	2	4	4	6	1	5	2 UART, 2 SPI, 1 I²C	1	-	-	✓	✓	\$3.71	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)					
	dsPIC33FJ128GP802	R	21	dsPIC DSC	64	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	✓	1 ADC, 13 ch 12-bit	4x16-bit	1	2	4	4	-	-	5	2 UART, 2 SPI, 1 I²C	1	-	-	✓	✓	\$3.72	BOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN-S (MM)					

* Parts available with High Temperature Options (150°C).

† Op amp configured as comparator.

Note 1: See Application Note "AN1095: Emulating Data EEPROM".

2: Two 16-bit timers can be concatenated to form a 32-bit timer.

Products sorted by pin count followed by pricing.

† Pricing subject to change; please contact your Microchip representative for most current pricing.

dsPIC33 DSC GENERAL PURPOSE AND MOTOR CONTROL FAMILY																													
Product	Released (R) Not Released (NR)	I/O Pins	Core	Memory				Voltage Range	Operating Speed		Analog Sensing & Measurement						Communication				Monitors	System Mgmt. Features	Packages (Designator)						
				Program (KB)	Data RAM (B)	EEPROM	DMA #Ch		Maximum Speed MHz	Internal Oscillator	ADC	DAC	Comparators	Op Amps	Output Compare/PWM	Input Capture	Motor Control PWM Ch	QEI	16-bit Timer ⁽²⁾	Digital Communication	CAN	FS USB OTG	PMP	RTCC/CRC	PPS	5 Ku Pricing ⁽¹⁾			
				32	2	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	1 ADC, 14 ch 10-/12-bit, 1100/500 kspS	-	3	-	2	3	-	5	1 UART, 1 SPI, 1 I ² C	-	-	✓	✓	\$2.02	BOR, POR, WDT	TQFP (PT), TLA, QFN (ML)		
44-Pin	dsPIC33FJ32GP104*	R	35	dsPIC® DSC	32	2	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	1 ADC, 14 ch 10-/12-bit, 1100/500 kspS	-	3	-	2	3	6	-	5	1 UART, 1 SPI, 1 I ² C	-	-	✓	✓	\$2.02	BOR, POR, WDT	TQFP (PT), QFN (ML)
	dsPIC33FJ32MC104*	R	35	dsPIC DSC	32	2	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	1 ADC, 14 ch 10-/12-bit, 1100/500 kspS	-	3	-	2	3	6	-	5	1 UART, 1 SPI, 1 I ² C	-	-	✓	✓	\$2.02	BOR, POR, WDT	TQFP (PT), QFN (ML)
	dsPIC33EP32MC204*	R	35	dsPIC DSC	32	4	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kspS	-	1 + 3 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	-	-	✓	✓	\$2.03	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	dsPIC33EV32GM004*	R	35	dsPIC DSC	35	4	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 1100/500 kspS	1x7-bit	5	4	4	4	6	-	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	\$2.23	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	dsPIC33EP32GP504*	R	35	dsPIC DSC	32	4	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kspS	-	1 + 3 [#]	3	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$2.24	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	dsPIC33EP32MC504*	R	35	dsPIC DSC	32	4	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kspS	-	1 + 3 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$2.24	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	dsPIC33EV32GM104*	R	35	dsPIC DSC	32	4	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 1100/500 kspS	-	1 + 3 [#]	3	4	4	6	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$2.44	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	dsPIC33EP64MC204*	R	35	dsPIC DSC	64	8	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kspS	-	1 + 3 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	\$2.59	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	dsPIC33EV64GM004*	R	35	dsPIC DSC	64	8	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 1100/500 kspS	1x7-bit	5	4	4	6	0	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	\$2.79	PBOR, POR, WDT	TQFP (PT), QFN (ML)	
	dsPIC33EP64GP504*	R	35	dsPIC DSC	64	8	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kspS	-	1 + 3 [#]	3	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$2.80	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	dsPIC33EP128MC204*	R	35	dsPIC DSC	128	16	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kspS	-	1 + 3 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	\$2.80	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	dsPIC33EV64GM104*	R	35	dsPIC DSC	64	8	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 1100/500 kspS	1x7-bit	5	4	4	6	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$3.00	PBOR, POR, WDT	TQFP (PT), QFN (ML)	
	dsPIC33EV128GM004*	R	35	dsPIC DSC	128	8	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 1100/500 kspS	1x7-bit	5	4	4	6	-	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	\$3.00	PBOR, POR, WDT	TQFP (PT), QFN (ML)	
	dsPIC33EP128GP504*	R	35	dsPIC DSC	128	16	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kspS	-	1 + 3 [#]	3	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$3.01	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	dsPIC33EP128MC504*	R	35	dsPIC DSC	128	16	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kspS	-	1 + 3 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$3.01	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	dsPIC33EV128GM104*	R	35	dsPIC DSC	128	8	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 1100/500 kspS	1x7-bit	5	4	4	6	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$3.21	PBOR, POR, WDT	TQFP (PT), QFN (ML)	
	dsPIC33EP256MC204*	R	35	dsPIC DSC	256	32	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kspS	-	1 + 3 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	\$3.28	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	dsPIC33EV256GM004*	R	35	dsPIC DSC	256	16	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 1100/500 kspS	1x7-bit	5	4	4	6	-	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	\$3.42	PBOR, POR, WDT	TQFP (PT), QFN (ML)	
	dsPIC33EP256GP504*	R	35	dsPIC DSC	256	32	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kspS	-	1 + 3 [#]	3	4	4	6	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$3.49	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	dsPIC33EP256MC504*	R	35	dsPIC DSC	256	32	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kspS	-	1 + 3 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$3.49	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	dsPIC33EV256GM104*	R	35	dsPIC DSC	256	16	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓	1 ADC, 24 ch 10-/12-bit, 1100/500 kspS	1x7-bit	5	4	4	6	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$3.63	PBOR, POR, WDT	TQFP (PT), QFN (ML)	
	dsPIC33EP512MC204*	R	35	dsPIC DSC	512	48	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kspS	-	1 + 3 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	\$3.64	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	dsPIC33FJ64GP804	R	35	dsPIC DSC	128	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	✓	1 ADC, 13 ch 12-bit	6x16-bit	2	2	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$3.65	BOR, POR, WDT	QFN (ML), TQFP (PT)
	dsPIC33EP128GM304*	R	35	dsPIC DSC	128	16	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	2 ADC, 18 ch 10-/12-bit, 1100/500 kspS	-	1 + 4 [#]	4	8	8	12	2	9	4 UART, 3 SPI, 2 I ² C	-	-	-	✓	\$3.68	BOR, POR, WDT	TQFP (PT), QFN (ML)

* Parts available with High Temperature Options (150°C).

† Op amp configured as comparator.

Note 1: See Application Note "AN1095: Emulating Data EEPROM".

2: Two 16-bit timers can be concatenated to form a 32-bit timer.

dsPIC33 DSC GENERAL PURPOSE AND MOTOR CONTROL FAMILY																														
Product		Released (R) Not Released (NR)	I/O Pins	Core	Memory				Program (KB)	Data RAM (B)	EEPROM	DMA #Ch	Voltage Range	Operating Speed		Analog Sensing & Measurement							Communication					Monitors		Packages (Designator)
					Maximum Speed MIPS	Internal Oscillator	Charge Time Measurement Unit	ADC						DAC	Comparators	Op Amps	Output Compare/PWM	Input Capture	Motor Control PWM Ch	QEI	16-bit Timer ⁽²⁾	Digital Communication	CAN	FS USB OTG	PMP	RTCC/CRC	PPS	5 ku Pricing ⁽¹⁾	System Mgmt. Features	
44-Pin (Cont.)	dsPIC33EP256GM304*	R	35	dsPIC® DSC	256	32	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	2 ADC, 18 ch 10-/12-bit, 1100/500 kbps	✓	1 + 4 [†]	4	8	8	12	2	9	4 UART, 3 SPI, 2 I ² C	-	-	-	✓	\$3.85	BOR, POR, WDT	TQFP (PT), QFN (ML)	
	dsPIC33EP512GP504*	R	35	dsPIC DSC	512	48	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kbps	-	1 + 3 [†]	3	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$3.85	PBOR, POR, WDT	TQFP (PT), QFN (ML)	
	dsPIC33EP512MC504*	R	35	dsPIC DSC	512	48	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 9 ch 10-/12-bit, 1100/500 kbps	-	1 + 3 [†]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$3.85	PBOR, POR, WDT	TQFP (PT), QFN (ML)	
	dsPIC33EP128GM604*	R	35	dsPIC DSC	128	16	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	2 ADC, 18 ch 10-/12-bit, 1100/500 kbps	-	1 + 4 [†]	4	8	8	12	2	9	4 UART, 3 SPI, 2 I ² C	2	-	-	✓	\$3.89	BOR, POR, WDT	TQFP (PT), QFN (ML)	
	dsPIC33FJ128GP804	R	35	dsPIC DSC	128	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	✓	1 ADC, 13 ch 12-bit	6x16-bit	2	2	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$3.96	BOR, POR, WDT	QFN (ML), TQFP (PT)	
	dsPIC33EP256GM604*	R	35	dsPIC DSC	256	32	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	2 ADC, 18 ch 10-/12-bit, 1100/500 kbps	✓	1 + 4 [†]	4	8	8	12	2	9	4 UART, 3 SPI, 2 I ² C	2	-	-	✓	\$4.06	BOR, POR, WDT	TQFP (PT), QFN (ML)	
	dsPIC33EP512GM304*	R	35	dsPIC DSC	512	48	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	2 ADC, 18 ch 10-/12-bit, 1100/500 kbps	-	1 + 4 [†]	4	8	8	12	2	9	4 UART, 3 SPI, 2 I ² C	-	-	-	✓	\$4.06	BOR, POR, WDT	TQFP (PT), QFN (ML)	
64Pin	dsPIC33EV32GM006*	R	53	dsPIC DSC	32	4	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓	1 ADC, 36 ch 10-/12-bit, 1100/500 kbps	1x7-bit	5	4	4	4	6	-	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	\$2.34	PBOR, POR, WDR	TQFP (PT), QFN (ML)	
	dsPIC33EV32GM106*	R	53	dsPIC DSC	32	4	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓	1 ADC, 36 ch 10-/12-bit, 1100/500 kbps	1x7-bit	5	4	4	4	6	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$2.55	PBOR, POR, WDT	TQFP (PT), QFN (ML)	
	dsPIC33EP64MC206*	R	53	dsPIC DSC	64	8	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 1100/500 kbps	-	1 + 3 [†]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	\$2.73	PBOR, POR, WDT	TQFP (PT), QFN (MR)	
	dsPIC33EV64GM006*	R	53	dsPIC DSC	64	8	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓	1 ADC, 36 ch 10-/12-bit, 1100/500 kbps	1x7-bit	5	4	4	4	6	0	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	\$2.93	PBOR, POR, WDT	TQFP (PT), QFN (ML)	
	dsPIC33EP64GP506*	R	53	dsPIC DSC	64	8	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 1100/500 kbps	-	1 + 3 [†]	3	4	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$2.94	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	dsPIC33EP64MC506*	R	53	dsPIC DSC	64	8	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 1100/500 kbps	-	1 + 3 [†]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$2.94	PBOR, POR, WDT	TQFP (PT), QFN (MR)	
	dsPIC33EP128MC206*	R	53	dsPIC DSC	128	16	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 1100/500 kbps	-	1 + 3 [†]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	\$2.94	PBOR, POR, WDT	TQFP (PT), QFN (MR)	
	dsPIC33EV64GM106*	R	53	dsPIC DSC	64	8	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓	1 ADC, 36 ch 10-/12-bit, 1100/500 kbps	1x7-bit	5	4	4	4	6	0	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$3.14	PBOR, POR, WDT	TQFP (PT), QFN (ML)	
	dsPIC33EV128GM006*	R	53	dsPIC DSC	128	8	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓	1 ADC, 36 ch 10-/12-bit, 1100/500 kbps	1x7-bit	5	4	4	4	6	0	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	\$3.14	PBOR, POR, WDT	TQFP (PT), QFN (ML)	
	dsPIC33EP128GP506*	R	53	dsPIC DSC	128	16	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 1100/500 kbps	-	1 + 3 [†]	3	4	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$3.15	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	dsPIC33EP128MC506*	R	53	dsPIC DSC	128	16	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 1100/500 kbps	-	1 + 3 [†]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$3.15	PBOR, POR, WDT	TQFP (PT), QFN (MR)	
	dsPIC33EV128GM106*	R	53	dsPIC DSC	128	8	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓	1 ADC, 36 ch 10-/12-bit, 1100/500 kbps	1x7-bit	5	4	4	4	6	0	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$3.35	PBOR, POR, WDT	TQFP (PT), QFN (ML)	
	dsPIC33EP256MC206*	R	53	dsPIC DSC	256	32	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 1100/500 kbps	-	1 + 3 [†]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	\$3.42	PBOR, POR, WDT	TQFP (PT), QFN (MR)	
	dsPIC33EV256GM006*	R	53	dsPIC DSC	256	16	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓	1 ADC, 36 ch 10-/12-bit, 1100/500 kbps	1x7-bit	5	4	4	4	6	0	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	\$3.56	PBOR, POR, WDT	TQFP (PT), QFN (ML)	
	dsPIC33EP256GP506*	R	53	dsPIC DSC	256	32	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 1100/500 kbps	-	1 + 3 [†]	3	4	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$3.63	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	dsPIC33EP256MC506*	R	53	dsPIC DSC	256	32	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 1100/500 kbps	-	1 + 3 [†]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$3.63	PBOR, POR, WDT	TQFP (PT), QFN (MR)	
	dsPIC33EV256GM106*	R	53	dsPIC DSC	256	16	AN1095 ⁽¹⁾	4	4.5V-5V	70	7.37 MHz, 32 kHz	✓	1 ADC, 36 ch 10-/12-bit, 1100/500 kbps	1x7-bit	5	4	4	4	6	0	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$3.77	PBOR, POR, WDT	TQFP (PT), QFN (ML)	
	dsPIC33EP512MC206*	R	53	dsPIC DSC	512	48	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 1100/500 kbps	-	1 + 3 [†]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	\$3.78	PBOR, POR, WDT	TQFP (PT), QFN (MR)	
	dsPIC33EP128GM306*	R	53	dsPIC DSC	128	16	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	2 ADC, 30 ch 10-/12-bit, 1100/500 kbps	-	1 + 4 [†]	4	8	8	12	2	9	4 UART, 3 SPI, 2 I ² C	-	-	-	✓	\$3.89	PBOR, POR, WDT	TQFP (PT), QFN (MR)	
	dsPIC33EP512GP506*	R	53	dsPIC DSC	512	48	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 1100/500 kbps	-	1 + 3 [†]	3	4	4	6	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$3.99	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	dsPIC33EP512MC506*	R	53	dsPIC DSC	512	48	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	1 ADC, 16 ch 10-/12-bit, 1100/500 kbps	-	1 + 3 [†]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	\$3.99	PBOR, POR, WDT	TQFP (PT), QFN (MR)	

* Parts available with High Temperature Options (150°C).

† Op amp configured as comparator.

Note 1: See Application Note "AN1095: Emulating Data EEPROM".

Note 2: Two 16-bit timers can be concatenated to form a 32-bit timer.

Products sorted by pin count followed by pricing.

† Pricing subject to change; please contact your Microchip representative for most current pricing.

dsPIC33 DSC GENERAL PURPOSE AND MOTOR CONTROL FAMILY																													
Product		Released (R) Not Released (NR)	I/O Pins	Core	Memory				Voltage Range	Maximum Speed MHz ¹⁾	Operating Speed	Analog Sensing & Measurement								Communication				Monitors	System Mgmt. Features	Packages (Designator)			
					Program (KB)	Data RAM (B)	EEPROM	DMA #Ch				ADC	DAC	Comparators	Op Amps	Output Compare/PWM	Input Capture	Motor Control PWM Ch	QEI	16-bit Timer ⁽²⁾	Digital Communication	CAN	FS USB OTG	PMP	RTCC/GRC	PPS	5 Ku Pricing [†]		
64-Pin (Cont.)	dsPIC33EP256GM306*	R	53	dsPIC® DSC	256	32	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	2 ADC, 30 ch 10-/12-bit, 1100/500 ksp/s	-	1 + 4 [‡]	4	8	8	12	2	9	4 UART, 3 SPI, 2 I ² C	-	-	✓	✓	\$4.06	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	dsPIC33EP128GM706*	R	53	dsPIC DSC	128	16	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	2 ADC, 30 ch 10-/12-bit, 1100/500 ksp/s	-	1 + 4 [‡]	4	8	8	12	2	9	4 UART, 3 SPI, 2 I ² C	2	-	✓	✓	\$4.10	BOR, POR, WDT	TQFP (PT), QFN (MR)
	dsPIC33EP256GM706*	R	53	dsPIC DSC	256	32	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	2 ADC, 30 ch 10-/12-bit, 1100/500 ksp/s	-	1 + 4 [‡]	4	8	8	12	2	9	4 UART, 3 SPI, 2 I ² C	2	-	✓	✓	\$4.27	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	dsPIC33EP512GM306*	R	53	dsPIC DSC	512	48	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	2 ADC, 30 ch 10-/12-bit, 1100/500 ksp/s	-	1 + 4 [‡]	4	8	8	12	2	9	4 UART, 3 SPI, 2 I ² C	-	-	✓	✓	\$4.27	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	dsPIC33EP512GM706*	R	53	dsPIC DSC	512	48	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	2 ADC, 30 ch 10-/12-bit, 1100/500 ksp/s	-	1 + 4 [‡]	4	8	8	12	2	9	4 UART, 3 SPI, 2 I ² C	2	-	✓	✓	\$4.48	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	dsPIC33EP512MC806*	R	53	dsPIC DSC	536	52	AN1095 ⁽¹⁾	15	3V-3.6V	70	7.37 MHz, 32 kHz	-	2 ADC, 24 ch 10-/12-bit, 1100/500 ksp/s	-	3	-	16	16	8	2	9	4 UART, 2 SPI, 2 I ² C	2	✓	✓	✓	\$5.22	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	dsPIC33EP512GP806*	R	53	dsPIC DSC	536	52	AN1095 ⁽¹⁾	15	3V-3.6V	70	7.37 MHz, 32 kHz	-	2 ADC, 24 ch 10-/12-bit, 1100/500 ksp/s	-	3	-	16	16	-	-	9	4 UART, 2 SPI, 2 I ² C	2	-	✓	✓	\$5.60	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	dsPIC33EP256MU806*	R	53	dsPIC DSC	512	48	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	-	2 ADC, 24 ch 10-/12-bit, 1100/500 ksp/s	-	3	-	16	16	8	2	9	4 UART, 2 SPI, 2 I ² C	2	-	✓	✓	\$5.60	PBOR, POR, WDT	TQFP (PT), QFN (MR)
100-/121-Pin	dsPIC33FJ64GP310A*	R	85	dsPIC DSC	64	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	1 ADC, 32 ch 10-/12-bit, 1100/500 ksp/s	-	-	-	8	8	-	-	9	2 UART, 2 SPI, 2 I ² C	-	-	-	-	\$3.99	PBOR, POR, WDT	TQFP (PT, PF)
	dsPIC33FJ64MC510A*	R	85	dsPIC DSC	64	8	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	1 ADC, 24 ch 10-/12-bit, 1100/500 ksp/s	-	-	-	8	8	8	1	9	2 UART, 2 SPI, 2 I ² C	1	-	-	-	\$4.33	PBOR, POR, WDT	TQFP (PT, PF)
	dsPIC33FJ128GP310A*	R	85	dsPIC DSC	128	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	1 ADC, 32 ch 10-/12-bit, 1100/500 ksp/s	-	-	-	8	8	-	-	9	2 UART, 2 SPI, 2 I ² C	-	-	-	-	\$4.25	PBOR, POR, WDT	TQFP (PT, PF)
	dsPIC33FJ128MC510A*	R	85	dsPIC DSC	128	8	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	1 ADC, 24 ch 10-/12-bit, 1100/500 ksp/s	-	-	-	8	8	8	1	9	2 UART, 2 SPI, 2 I ² C	1	-	-	-	\$4.59	PBOR, POR, WDT	TQFP (PT, PF)
	dsPIC33FJ64GP710A*	R	85	dsPIC DSC	64	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	2 ADC, 32 ch 10-/12-bit, 1100/500 ksp/s	-	-	-	8	8	-	-	9	2 UART, 2 SPI, 2 I ² C	2	-	-	-	\$4.61	PBOR, POR, WDT	TQFP (PT, PF)
	dsPIC33FJ64MC710A*	R	85	dsPIC DSC	64	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	2 ADC, 24 ch 10-/12-bit, 1100/500 ksp/s	-	-	-	8	8	8	1	9	2 UART, 2 SPI, 2 I ² C	2	-	-	-	\$4.91	PBOR, POR, WDT	TQFP (PT, PF)
	dsPIC33FJ256GP510A*	R	85	dsPIC DSC	256	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	1 ADC, 32 ch 10-/12-bit, 1100/500 ksp/s	-	-	-	8	8	-	-	9	2 UART, 2 SPI, 2 I ² C	1	-	-	-	\$4.66	PBOR, POR, WDT	TQFP (PT, PF)
	dsPIC33FJ128GP710A*	R	85	dsPIC DSC	128	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	2 ADC, 32 ch 10-/12-bit, 1100/500 ksp/s	-	-	-	8	8	-	-	9	2 UART, 2 SPI, 2 I ² C	2	-	-	-	\$4.86	PBOR, POR, WDT	TQFP (PT, PF)
	dsPIC33FJ256MC510A*	R	85	dsPIC DSC	256	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	1 ADC, 16 ch 10-/12-bit, 1100/500 ksp/s	-	-	-	8	8	8	1	9	2 UART, 2 SPI, 2 I ² C	1	-	-	-	\$4.97	PBOR, POR, WDT	TQFP (PT, PF)
	dsPIC33FJ128MC710A*	R	85	dsPIC DSC	128	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	2 ADC, 24 ch 10-/12-bit, 1100/500 ksp/s	-	-	-	8	8	8	1	9	2 UART, 2 SPI, 2 I ² C	2	-	-	-	\$5.18	PBOR, POR, WDT	TQFP (PT, PF)
	dsPIC33FJ256GP710A*	R	85	dsPIC DSC	256	30	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	2 ADC, 32 ch 10-/12-bit, 1100/500 ksp/s	-	-	-	8	8	-	-	9	2 UART, 2 SPI, 2 I ² C	2	-	-	-	\$5.32	PBOR, POR, WDT	TQFP (PT, PF)
	dsPIC33FJ256MC710A*	R	85	dsPIC DSC	256	30	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	2 ADC, 24 ch 10-/12-bit, 1100/500 ksp/s	-	-	-	8	8	8	1	9	2 UART, 2 SPI, 2 I ² C	2	-	-	-	\$5.67	PBOR, POR, WDT	TQFP (PT, PF)
	dsPIC33EP256MU810*	R	83	dsPIC DSC	280	28	AN1095 ⁽¹⁾	15	3V-3.6V	60	7.37 MHz, 32 kHz	-	2 ADC, 32 ch 10-/12-bit, 1100/500 ksp/s	-	3	-	16	16	12	2	9	2 UART, 2 SPI, 2 I ² C	2	✓	✓	✓	\$5.70	PBOR, POR, WDT	TQFP (PT, PF)
	dsPIC33EP512MU810*	R	83	dsPIC DSC	536	52	AN1095 ⁽¹⁾	15	3V-3.6V	60	7.37 MHz, 32 kHz	-	2 ADC, 32 ch 10-/12-bit, 1100/500 ksp/s	-	3	-	16	16	12	2	9	2 UART, 2 SPI, 2 I ² C	2	✓	✓	✓	\$6.37	PBOR, POR, WDT	TQFP (PT, PF)
144-Pin	dsPIC33EP128GM310*	R	85	dsPIC DSC	128	16	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	2 ADC, 49 ch 10-/12-bit, 1100/500 ksp/s	-	1 + 4 [‡]	4	8	8	12	2	9	4 UART, 3 SPI, 2 I ² C	-	-	✓	✓	\$4.24	PBOR, POR, WDT	TQFP (PT, PF), TFBGA (BG)
	dsPIC33EP256GM310*	R	85	dsPIC DSC	256	32	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	2 ADC, 49 ch 10-/12-bit, 1100/500 ksp/s	-	1 + 4 [‡]	4	8	8	12	2	9	4 UART, 3 SPI, 2 I ² C	-	-	✓	✓	\$4.41	PBOR, POR, WDT	TQFP (PT, PF), TFBGA (BG)
	dsPIC33EP128GM710*	R	85	dsPIC DSC	128	16	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	2 ADC, 49 ch 10-/12-bit, 1100/500 ksp/s	-	1 + 4 [‡]	4	8	8	12	2	9	4 UART, 3 SPI, 2 I ² C	2	-	✓	✓	\$4.45	PBOR, POR, WDT	TQFP (PT, PF), TFBGA (BG)
	dsPIC33EP256GM710*	R	85	dsPIC DSC	256	32	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	2 ADC, 49 ch 10-/12-bit, 1100/500 ksp/s	-	1 + 4 [‡]	4	8	8	12	2	9	4 UART, 3 SPI, 2 I ² C	2	-	✓	✓	\$4.62	PBOR, POR, WDT	TQFP (PT, PF), TFBGA (BG)
	dsPIC33EP512GM310*	R	85	dsPIC DSC	512	48	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	2 ADC, 49 ch 10-/12-bit, 1100/500 ksp/s	-	1 + 4 [‡]	4	8	8	12	2	9	4 UART, 3 SPI, 2 I ² C	-	-	✓	✓	\$4.62	PBOR, POR, WDT	TQFP (PT, PF), TFBGA (BG)
	dsPIC33EP512GM710*	R	85	dsPIC DSC	512	48	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	2 ADC, 49 ch 10-/12-bit, 1100/500 ksp/s	-	1 + 4 [‡]	4	8	8	12	2	9	4 UART, 3 SPI, 2 I ² C	2	-	✓	✓	\$4.83	PBOR, POR, WDT	TQFP (PT, PF), TFBGA (BG)
	dsPIC33EP256MU814*	R	122	dsPIC DSC	280	28	AN1095 ⁽¹⁾	15	3V-3.6V	60	7.37 MHz, 32 kHz	-	2 ADC, 32 ch 10-/12-bit, 1100/500 ksp/s	-	3	-	16	16	12	2	9	2 UART, 2 SPI, 2 I ² C	2	✓	✓	✓	\$6.31	PBOR, POR, WDT	TQFP (PH), LQFP (PL)
	dsPIC33EP512MU814*	R	122	dsPIC DSC	536	52	AN1095 ⁽¹⁾	15	3V-3.6V	60	7.37 MHz, 32 kHz	-	2 ADC, 32 ch 10-/12-bit, 1100/500 ksp/s	-	3	-	16	16	12	2	9	2 UART, 2 SPI, 2 I ² C	2	✓	✓	✓	\$6.99	PBOR, POR, WDT	TQFP (PH), LQFP (PL)

* Parts available with High Temperature Options (150°C).

† Op amp configured as comparator.

Note 1: See Application Note "AN1095: Emulating Data EEPROM".

‡ Two 16-bit timers can be concatenated to form a 32-bit timer.

Products sorted by pin count followed by pricing.

† Pricing subject to change; please contact your Microchip representative for most current pricing.

dsPIC33 DSC SMPS AND DIGITAL POWER CONVERSION FAMILY																										
Product		Released (R) Not Released (NR)	Memory				Operating Speed		Analog				Communication				Monitors	System Mgmt. Features	Packages (Designator)							
			I/O Pins	Core	Program (KB)	Data RAM (B)	EEPROM	DMA #ch	Voltage Range	Maximum Speed Msps	Internal Oscillator	ADC	DAC	Comparators	Output Compare/ PWM	Input Capture	Power Supply PWM Cn ⁽¹⁾	QEI	16-bit Timer ⁽²⁾							
18-Pin	dsPIC33FJ06GS001	R	13	dsPIC®	6	256	AN1095 ⁽¹⁾	-	3V-3.6V	40	7.37 MHz, 32 kHz	1 ADC, 6 ch 10-bit, 200 kspss	2 × 10-bit	2	-	-	4	-	2	1 UART, 1 SPI, 1 I ² C	-	-	✓	\$1.61	BOR, POR, WDT	PDIP (P), SOIC (SO), SSOP (SS)
	dsPIC33FJ06GS101A	R	13	dsPIC	6	256	AN1095 ⁽¹⁾	-	3V-3.6V	40	7.37 MHz, 32 kHz	1 ADC, 6 ch 10-bit, 200 kspss	-	-	1	-	4	-	2	1 UART, 1 SPI, 1 I ² C	-	-	✓	\$1.75	BOR, POR, WDT	PDIP (P), SOIC (SO), SSOP (SS)
28-Pin	dsPIC33EP16GS202*	R	21	dsPIC	16	2048	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	2 ADC, 12 ch 12/14-bit, 3250/200 kspss	2 × 12-bit	2	1	1	-	-	3	1 UART, 1 SPI, 1 I ² C	-	-	✓	Call for Pricing	PBOR, POR, WDT, Dual Boot	Call for package information
	dsPIC33EP32GS202*	R	21	dsPIC	32	2048	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	3 ADC, 12 ch 12/14-bit, 3250/200 kspss	4 × 12-bit	2	1	1	-	-	3	1 UART, 1 SPI, 1 I ² C	-	-	✓	Call for Pricing	PBOR, POR, WDT, Dual Boot	Call for package information
	dsPIC33FJ06GS102A	R	21	dsPIC	6	256	AN1095 ⁽¹⁾	-	3V-3.6V	40	7.37 MHz, 32 kHz	1 ADC, 6 ch 10-bit, 200 kspss	-	-	1	-	4	-	2	1 UART, 1 SPI, 1 I ² C	-	-	✓	\$1.95	BOR, POR, WDT	SDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	dsPIC33FJ06GS202A	R	21	dsPIC	6	1024	AN1095 ⁽¹⁾	-	3V-3.6V	40	7.37 MHz, 32 kHz	1 ADC, 6 ch 10-bit, 200 kspss	2 × 10-bit	2	1	1	4	-	2	1 UART, 1 SPI, 1 I ² C	-	-	✓	\$2.06	BOR, POR, WDT	SDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	dsPIC33FJ09GS302	R	21	dsPIC	9	1024	AN1095 ⁽¹⁾	-	3V-3.6V	40	7.37 MHz, 32 kHz	1 ADC, 8 ch 10-bit, 200 kspss	2 × 10-bit	2	1	1	6	-	2	1 UART, 1 SPI, 1 I ² C	-	-	✓	\$2.17	BOR, POR, WDT	SDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	dsPIC33FJ16GS402*	R	21	dsPIC	16	2048	AN1095 ⁽¹⁾	-	3V-3.6V	50	7.37 MHz, 32 kHz	1 ADC, 8 ch 10-bit, 200 kspss	-	-	2	2	6	-	3	1 UART, 1 SPI, 1 I ² C	-	-	✓	\$2.52	BOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MM)
	dsPIC33EP16GS502*	R	21	dsPIC	16	2048	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	5 ADC, 12 ch 12/14-bit, 3250/200 kspss	4 × 12-bit	4	4	4	-	-	5	2 UART, 2 SPI, 2 I ² C	-	-	✓	\$2.58	PBOR, POR, WDT, Dual Boot	SOIC (SO), QFN (MN)
	dsPIC33FJ16GS502*	R	21	dsPIC	16	2048	AN1095 ⁽¹⁾	-	3V-3.6V	50	7.37 MHz, 32 kHz	2 ADC, 8 ch 10-bit, 4000 kspss	4 × 10-bit	4	2	2	8	-	3	1 UART, 1 SPI, 1 I ² C	-	-	✓	\$3.04	BOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MM)
	dsPIC33EP32GS502*	R	21	dsPIC	32	4096	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	5 ADC, 12 ch 12/14-bit, 3250/200 kspss	4 × 12-bit	4	4	4	-	-	5	2 UART, 2 SPI, 2 I ² C	-	-	✓	\$3.07	PBOR, POR, WDT, Dual Boot	SOIC (SO), QFN (MN)
	dsPIC33EP64GS502*	R	21	dsPIC	64	8192	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	5 ADC, 12 ch 12/14-bit, 3250/200 kspss	4 × 12-bit	4	4	4	-	-	5	2 UART, 2 SPI, 2 I ² C	-	-	✓	\$3.57	PBOR, POR, WDT, Dual Boot	SOIC (SO), QFN (MN)
44-Pin	dsPIC33EP16FS504*	R	35	dsPIC	16	2048	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	5 ADC, 12 ch 12/14-bit, 3250/200 kspss	4 × 12-bit	4	4	4	-	-	5	2 UART, 2 SPI, 2 I ² C	-	-	✓	\$2.77	PBOR, POR, WDT, Dual Boot	TQFP (PT), QFN (ML)
	dsPIC33FJ16GS404*	R	35	dsPIC	16	2048	AN1095 ⁽¹⁾	-	3V-3.6V	50	7.37 MHz, 32 kHz	1 ADC, 8 ch 10-bit, 200 kspss	-	-	2	2	6	-	3	1 UART, 1 SPI, 1 I ² C	-	-	✓	\$2.77	BOR, POR, WDT	TQFP (PT), QFN (ML)
	dsPIC33EP32GS504*	R	35	dsPIC	32	4096	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	5 ADC, 12 ch 12/14-bit, 3250/200 kspss	4 × 12-bit	4	4	4	-	-	5	2 UART, 2 SPI, 2 I ² C	-	-	✓	\$3.23	PBOR, POR, WDT, Dual Boot	TQFP (PT), QFN (ML)
	dsPIC33FJ16GS504*	R	35	dsPIC	16	2048	AN1095 ⁽¹⁾	-	3V-3.6V	50	7.37 MHz, 32 kHz	2 ADC, 12 ch 10-bit, 4000 kspss	4 × 10-bit	4	2	2	8	-	3	1 UART, 1 SPI, 1 I ² C	-	-	✓	\$3.42	BOR, POR, WDT	TQFP (PT), QFN (ML)
	dsPIC33EP64GS504*	R	35	dsPIC	64	8192	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	5 ADC, 12 ch 12/14-bit, 3250/200 kspss	4 × 12-bit	4	4	4	-	-	5	2 UART, 2 SPI, 2 I ² C	-	-	✓	\$3.75	PBOR, POR, WDT, Dual Boot	TQFP (PT), QFN (ML)
48-Pin	dsPIC33EP16GS505*	R	35	dsPIC	16	4096	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	5 ADC, 12 ch 12/14-bit, 3250/200 kspss	4 × 12-bit	4	4	4	-	-	5	2 UART, 2 SPI, 2 I ² C	-	-	✓	Call for Pricing	PBOR, POR, WDT, Dual Boot	Call for package information
	dsPIC33EP32GS505*	R	35	dsPIC	32	4096	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	5 ADC, 12 ch 12/14-bit, 3250/200 kspss	4 × 12-bit	4	4	4	-	-	5	2 UART, 2 SPI, 2 I ² C	-	-	✓	Call for Pricing	PBOR, POR, WDT, Dual Boot	Call for package information
	dsPIC33EP64GS505*	R	35	dsPIC	64	8192	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	5 ADC, 12 ch 12/14-bit, 3250/200 kspss	4 × 12-bit	4	4	4	-	-	5	2 UART, 2 SPI, 2 I ² C	-	-	✓	Call for Pricing	PBOR, POR, WDT, Dual Boot	Call for package information
64-Pin	dsPIC33EP16GS506*	R	53	dsPIC	16	2048	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	5 ADC, 12 ch 12/14-bit, 3250/200 kspss	4 × 12-bit	4	4	4	-	-	5	2 UART, 2 SPI, 2 I ² C	-	-	✓	Call for Pricing	PBOR, POR, WDT, Dual Boot	TQFP (PT)
	dsPIC33FJ32GS406	R	58	dsPIC	32	4096	AN1095 ⁽¹⁾	-	3V-3.6V	50	7.37 MHz, 32 kHz	1 ADC, 16 ch 10-bit, 200 kspss	-	-	4	4	12	1	5	2 UART, 2 SPI, 2 I ² C	-	-	-	\$3.07	BOR, POR, WDT	TQFP (PT), QFN (MR)
	dsPIC33FJ64GS406	R	58	dsPIC	64	8192	AN1095 ⁽¹⁾	-	3V-3.6V	50	7.37 MHz, 32 kHz	1 ADC, 16 ch 10-bit, 200 kspss	-	-	4	4	12	1	5	2 UART, 2 SPI, 2 I ² C	-	-	-	\$3.35	BOR, POR, WDT	TQFP (PT), QFN (MR)
	dsPIC33FJ32GS606	R	58	dsPIC	32	4096	AN1095 ⁽¹⁾	-	3V-3.6V	50	7.37 MHz, 32 kHz	2 ADC, 16 ch 10-bit, 4000 kspss	4 × 10-bit	4	4	4	12	2	5	2 UART, 2 SPI, 2 I ² C	-	-	-	\$3.36	BOR, POR, WDT	TQFP (PT), QFN (MR)
	dsPIC33EP32GS506*	R	53	dsPIC	32	4096	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	5 ADC, 12 ch 12/14-bit, 3250/200 kspss	4 × 12-bit	4	4	4	-	-	5	2 UART, 2 SPI, 2 I ² C	-	-	✓	\$3.39	PBOR, POR, WDT, Dual Boot	TQFP (PT)
	dsPIC33FJ64GS606	R	58	dsPIC	64	9216	AN1095 ⁽¹⁾	4	3V-3.6V	50	7.37 MHz, 32 kHz	2 ADC, 16 ch 10-bit, 4000 kspss	4 × 10-bit	4	4	4	12	2	5	2 UART, 2 SPI, 2 I ² C	1	-	-	\$3.81	BOR, POR, WDT	TQFP (PT), QFN (MR)
80-Pin	dsPIC33EP64GS506*	R	53	dsPIC	64	8192	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	5 ADC, 12 ch 12/14-bit, 3250/200 kspss	4 × 12-bit	4	4	4	-	-	5	2 UART, 2 SPI, 2 I ² C	-	-	✓	\$3.93	PBOR, POR, WDT, Dual Boot	TQFP (PT)
	dsPIC33FJ32GS608	R	74	dsPIC	32	4096	AN1095 ⁽¹⁾	-	3V-3.6V	50	7.37 MHz, 32 kHz	2 ADC, 18 ch 10-bit, 4000 kspss	4 × 10-bit	4	4	4	16	2	5	2 UART, 2 SPI, 2 I ² C	-	-	-	\$3.85	BOR, POR, WDT	TQFP (PT)
	dsPIC33FJ64GS608	R	74	dsPIC	64	9216	AN1095 ⁽¹⁾	4	3V-3.6V	50	7.37 MHz, 32 kHz	2 ADC, 18 ch 10-bit, 4000 kspss	4 × 10-bit	4	4	4	16	2	5	2 UART, 2 SPI, 2 I ² C	1	-	-	\$4.34	BOR, POR, WDT	TQFP (PT)
100-Pin	dsPIC33FJ32GS610	R	85	dsPIC	32	4096	AN1095 ⁽¹⁾	-	3V-3.6V	50	7.37 MHz, 32 kHz	2 ADC, 24 ch 10-bit, 4000 kspss	4 × 10-bit	4	4	4	18	2	5	2 UART, 2 SPI, 2 I ² C	-	-	-	\$4.41	BOR, POR, WDT	TQFP (PF, PT)
	dsPIC33FJ64GS610	R	85	dsPIC	64	9216	AN1095 ⁽¹⁾	4	3V-3.6V	50	7.37 MHz, 32 kHz	2 ADC, 24 ch 10-bit, 4000 kspss	4 × 10-bit	4	4	4	18	2	5	2 UART, 2 SPI, 2 I ² C	1	-	-	\$4.89	BOR, POR, WDT	TQFP (PF, PT)

* Parts available with High Temperature Options (150°C).

† 4 Msps devices with 2 ADCs

Note 1: See Application Note "AN1095: Emulating Data EEPROM".**Note 2:** Two 16-bit timers can be concatenated to form a 32-bit timer.

Products sorted by pin count followed by pricing.

† Pricing subject to change; please contact your Microchip representative for most current pricing.

32-BIT PIC32MX MICROCONTROLLERS

Product	Released (R) Not Released (NR)	I/O Pins	Core	Memory				DMA Channels General/Dedicated	Voltage Range	Operating Speed		Charge Time Measurement Unit	ADC 10-bit 1,000 kps	Analog Comparators	Timers 16-/32-bit				Communication				CAN	PMP	RTCC	PPS	5 ku Pricing ^f	Monitors	System Mgmt. Features	Packages (Designator)
				Flash KB + Boot Flash	Data RAM (KB)	EEPROM	Maximum Speed (MHz)			Internal Oscillator	2/2				2/2	2	2	UARTs	FS USB	Ethernet										
28-Pin	PIC32MX110F016B	R	21	PIC32	16 + 3	4	AN1095 ⁱ	4/0	2.3V–3.6V	40	8 MHz, 32 kHz	✓	10 ch	3	5/5/5	5/2	2/2	2	2	–	–	–	✓	✓	✓	\$1.40	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)		
	PIC32MX210F016B	R	19	PIC32	16 + 3	4	AN1095 ⁱ	4/2	2.3V–3.6V	40	8 MHz, 32 kHz	✓	9 ch	3	5/5/5	5/2	2/2	2	2	–	–	–	✓	✓	✓	\$1.51	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)		
	PIC32MX120F032B	R	21	PIC32	32 + 3	8	AN1095 ⁱ	4/0	2.3V–3.6V	50	8 MHz, 32 kHz	✓	10 ch	3	5/5/5	5/2	2/2	2	2	–	–	–	✓	✓	✓	\$1.60	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)		
	PIC32MX220F032B	R	19	PIC32	32 + 3	8	AN1095 ⁱ	4/2	2.3V–3.6V	50	8 MHz, 32 kHz	✓	9 ch	3	5/5/5	5/2	2/2	2	2	–	–	–	✓	✓	✓	\$1.71	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)		
	PIC32MX130F064B	R	21	PIC32	64 + 3	16	AN1095 ⁱ	4/0	2.3V–3.6V	40	8 MHz, 32 kHz	✓	10 ch	3	5/5/5	5/2	2/2	2	2	–	–	–	✓	✓	✓	\$1.81	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)		
	PIC32MX230F064B	R	21	PIC32	256 + 3	16	AN1095 ⁱ	4/0	2.3V–3.6V	50	8 MHz, 32 kHz	✓	10 ch	3	5/5/5	5/2	2/2	2	2	–	–	–	✓	✓	✓	\$2.00	POR, BOR, LVD, WDT	SPDIP (SP), SSOP (SS), QFN (ML)		
	PIC32MX230F064B	R	19	PIC32	64 + 3	16	AN1095 ⁱ	4/2	2.3V–3.6V	40	8 MHz, 32 kHz	✓	9 ch	3	5/5/5	5/2	2/2	2	2	OTG	–	–	✓	✓	✓	\$2.02	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)		
	PIC32MX230F064B	R	19	PIC32	256 + 3	16	AN1095 ⁱ	4/2	2.3V–3.6V	50	8 MHz, 32 kHz	✓	9 ch	3	5/5/5	5/2	2/2	2	2	OTG	–	–	✓	✓	✓	\$2.21	POR, BOR, LVD, WDT	SPDIP (SP), SSOP (ML), VTLA (TL)		
	PIC32MX150F128B	R	21	PIC32	128 + 3	32	AN1095 ⁱ	4/0	2.3V–3.6V	50	8 MHz, 32 kHz	✓	10 ch	3	5/5/5	5/2	2/2	2	2	–	–	–	✓	✓	✓	\$2.31	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)		
	PIC32MX170F256B	R	21	PIC32	256 + 3	64	AN1095 ⁱ	4/0	2.3V–3.6V	50	8 MHz, 32 kHz	✓	10 ch	3	5/5/5	5/2	2/2	2	2	–	–	–	✓	✓	✓	\$2.55	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)		
36-Pin	PIC32MX250F128B	R	19	PIC32	128 + 3	32	AN1095 ⁱ	4/2	2.3V–3.6V	50	8 MHz, 32 kHz	✓	9 ch	3	5/5/5	5/2	2/2	2	2	OTG	–	–	✓	✓	✓	\$2.59	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)		
	PIC32MX270F256B	R	21	PIC32	256 + 3	64	AN1095 ⁱ	4/2	2.3V–3.6V	50	8 MHz, 32 kHz	✓	10 ch	3	5/5/5	5/2	2/2	2	2	OTG	–	–	✓	✓	✓	\$2.76	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)		
	PIC32MX110F016C	R	25	PIC32	16 + 3	4	AN1095 ⁱ	4/0	2.3V–3.6V	40	8 MHz, 32 kHz	✓	12 ch	3	5/5/5	5/2	2/2	2	2	–	–	–	✓	✓	✓	\$1.54	POR, BOR, LVD, WDT	VTLA (TL)		
	PIC32MX210F016C	R	25	PIC32	16 + 3	4	AN1095 ⁱ	4/2	2.3V–3.6V	40	8 MHz, 32 kHz	✓	12 ch	3	5/5/5	5/2	2/2	2	2	Device	–	–	✓	✓	✓	\$1.65	POR, BOR, LVD, WDT	VTLA (TL)		
	PIC32MX120F032C	R	25	PIC32	32 + 3	8	AN1095 ⁱ	4/0	2.3V–3.6V	50	8 MHz, 32 kHz	✓	12 ch	3	5/5/5	5/2	2/2	2	2	–	–	–	✓	✓	✓	\$1.74	POR, BOR, LVD, WDT	VTLA (TL)		
	PIC32MX220F032C	R	25	PIC32	32 + 3	8	AN1095 ⁱ	4/2	2.3V–3.6V	50	8 MHz, 32 kHz	✓	12 ch	3	5/5/5	5/2	2/2	2	2	Device	–	–	✓	✓	✓	\$1.85	POR, BOR, LVD, WDT	VTLA (TL)		
	PIC32MX130F064C	R	25	PIC32	64 + 3	16	AN1095 ⁱ	4/0	2.3V–3.6V	40	8 MHz, 32 kHz	✓	12 ch	3	5/5/5	5/2	2/2	2	2	–	–	–	✓	✓	✓	\$1.97	POR, BOR, LVD, WDT	VTLA (TL)		
	PIC32MX230F064C	R	25	PIC32	64 + 3	16	AN1095 ⁱ	4/2	2.3V–3.6V	40	8 MHz, 32 kHz	✓	12 ch	3	5/5/5	5/2	2/2	2	2	OTG	–	–	✓	✓	✓	\$2.18	POR, BOR, LVD, WDT	VTLA (TL)		
	PIC32MX150F128C	R	25	PIC32	128 + 3	32	AN1095 ⁱ	4/0	2.3V–3.6V	50	8 MHz, 32 kHz	✓	12 ch	3	5/5/5	5/2	2/2	2	2	–	–	–	✓	✓	✓	\$2.45	POR, BOR, LVD, WDT	VTLA (TL)		
	PIC32MX250F128C	R	25	PIC32	128 + 3	32	AN1095 ⁱ	4/2	2.3V–3.6V	50	8 MHz, 32 kHz	✓	12 ch	3	5/5/5	5/2	2/2	2	2	OTG	–	–	✓	✓	✓	\$2.73	POR, BOR, LVD, WDT	VTLA (TL)		
44-Pin	PIC32MX110F016D	R	35	PIC32	16 + 3	4	AN1095 ⁱ	4/0	2.3V–3.6V	40	8 MHz, 32 kHz	✓	13 ch	3	5/5/5	5/2	2/2	2	2	–	–	–	✓	✓	✓	\$1.64	POR, BOR, LVD, WDT	TQFP (PT), QFN (ML), VTLA (TL)		
	PIC32MX210F016D	R	33	PIC32	16 + 3	4	AN1095 ⁱ	4/2	2.3V–3.6V	40	8 MHz, 32 kHz	✓	13 ch	3	5/5/5	5/2	2/2	2	2	Device	–	–	✓	✓	✓	\$1.74	POR, BOR, LVD, WDT	TQFP (PT), QFN (ML), VTLA (TL)		
	PIC32MX120F032D	R	35	PIC32	32 + 3	8	AN1095 ⁱ	4/0	2.3V–3.6V	50	8 MHz, 32 kHz	✓	13 ch	3	5/5/5	5/2	2/2	2	2	–	–	–	✓	✓	✓	\$1.83	POR, BOR, LVD, WDT	TQFP (PT), QFN (ML), VTLA (TL)		
	PIC32MX220F032D	R	33	PIC32	32 + 3	8	AN1095 ⁱ	4/2	2.3V–3.6V	50	8 MHz, 32 kHz	✓	13 ch	3	5/5/5	5/2	2/2	2	2	Device	–	–	✓	✓	✓	\$1.93	POR, BOR, LVD, WDT	TQFP (PT), QFN (ML), VTLA (TL)		
	PIC32MX130F064D	R	35	PIC32	64 + 3	16	AN1095 ⁱ	4/0	2.3V–3.6V	40	8 MHz, 32 kHz	✓	13 ch	3	5/5/5	5/2	2/2	2	2	–	–	–	✓	✓	✓	\$2.02	POR, BOR, LVD, WDT	TQFP (PT), QFN (ML), VTLA (TL)		
	PIC32MX130F064D	R	35	PIC32	256 + 3	16	AN1095 ⁱ	4/2	2.3V–3.6V	40	8 MHz, 32 kHz	✓	13 ch	3	5/5/5	5/2	2/2	2	2	–	–	–	✓	✓	✓	\$2.18	POR, BOR, LVD, WDT	TQFP (PT), QFN (ML), VTLA (TL)		
	PIC32MX230F064D	R	33	PIC32	64 + 3	16	AN1095 ⁱ	4/2	2.3V–3.6V	40	8 MHz, 32 kHz	✓	13 ch	3	5/5/5	5/2	2/2	2	2	OTG	–	–	✓	✓	✓	\$2.23	POR, BOR, LVD, WDT	TQFP (PT), QFN (ML), VTLA (TL)		
	PIC32MX230F064D	R	33	PIC32	256 + 3	16	AN1095 ⁱ	4/2	2.3V–3.6V	50	8 MHz, 32 kHz	✓	13 ch	3	5/5/5	5/2	2/2	2	2	OTC	–	–	✓	✓	✓	\$2.39	POR, BOR, LVD, WDT	TQFP (PT), QFN (ML), VTLA (TL)		
	PIC32MX150F128D	R	35	PIC32	128 + 3	32	AN1095 ⁱ	4/0	2.3V–3.6V	50	8 MHz, 32 kHz	✓	13 ch	3	5/5/5	5/2	2/2	2	2	–	–	–	✓	✓	✓	\$2.52	POR, BOR, LVD, WDT	TQFP (PT), QFN (ML), VTLA (TL)		
	PIC32MX170F256D	R	35	PIC32	256 + 3	64	AN1095 ⁱ	4/0	2.3V–3.6V	50	8 MHz, 32 kHz	✓	13 ch	3	5/5/5	5/2	2/2	2	2	–	–	–	✓	✓	✓	\$2.76	POR, BOR, LVD, WDT	TQFP (PT), QFN (ML), VTLA (TL)		
64-Pin	PIC32MX250F128D	R	33	PIC32	128 + 3	32	AN1095 ⁱ	4/2	2.3V–3.6V	50	8 MHz, 32 kHz	✓	13 ch	3	5/5/5	5/2	2/2	2	2	OTG	–	–	✓	✓	✓	\$2.80	POR, BOR, LVD, WDT	TQFP (PT), QFN (ML), VTLA (TL)		
	PIC32MX270F256D	R	33	PIC32	256 + 3	64	AN1095 ⁱ	4/2	2.3V–3.6V	50	8 MHz, 32 kHz	✓	13 ch	3	5/5/5	5/2	2/2	2	2	OTG	–	–	✓	✓	✓	\$2.97	POR, BOR, LVD, WDT	TQFP (PT), QFN (ML), VTLA (TL)		
	PIC32MX120F064H	R	53	PIC32	64 + 3	8	AN1095 ⁱ	4/0	2.3V–3.6V	50	8 MHz, 32 kHz	✓	28 ch	3	5/5/5	5/2	3/3	2	4	–	–	–	✓	✓	✓	\$2.16	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)		
	PIC32MX130F128H	R	53	PIC32	128 + 3	16	AN1095 ⁱ	4/0	2.3V–3.6V	50	8 MHz, 32 kHz	✓	28 ch	3	5/5/5	5/2	3/3	2	4	–	–	–	✓	✓	✓	\$2.20	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)		
	PIC32MX230F128H	R	49	PIC32	128 + 3	16	AN1095 ⁱ	4/2	2.3V–3.6V	50	8 MHz, 32 kHz	✓	28 ch	3	5/5/5	5/2	3/3	2	4	OTG	–	–	✓	✓	✓	\$2.34	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)		
	PIC32MX330F064H	R	53	PIC32	64 + 12	16	AN1095 ⁱ	4/2	2.3V–3.6V	80	8 MHz, 32 kHz	✓	28 ch	2	5/5/5	5/2	2/2	2	4	–	–	–	✓	✓	✓	\$2.45	POR, BOR, LVD, WDT	TQFP (PT), QFN (RG)		
	PIC32MX530F128H	R	49	PIC32	128 + 3	16	AN1095 ⁱ	4/2	2.3V–3.6V	80	8 MHz, 32 kHz	✓	28 ch	3	5/5/5	5/2	3/3	2	4	OTG	–	1	✓	✓	✓	\$2.48	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)		
	PIC32MX150F256H	R	53	PIC32	256 + 3	32	AN1095 ⁱ	4/0	2.3V–3.6V	80	8 MHz, 32 kHz	✓	28 ch	3	5/5/5	5/2	3/3</													

32-BIT PIC32MX MICROCONTROLLERS																											
Product	Released (R) Not Released (NR)	I/O Pins		Core	Memory			DMA Channels General/Dedicated	Voltage Range	Operating Speed		Charge Time Measurement Unit	Analog			IC/OC/PWM	Communication								Monitors		Packages (Designator)
		Flash KB + Boot Flash	Data RAM (KB)		EEPROM					Maximum Speed (MHz)	Internal Oscillator		ADC 10-bit 1,000 ksp/s	Comparators			Timers 16-/32-bit	SPI/\$	I ² C	UARTs	FS USB	Ethernet	CAN	PMP	RTCC	PPS	
64-Pin (Cont.)	R	53	PIC32	512 + 3	64	AN1095 [‡]	4/0	2.3V-3.6V	50	8 MHz, 32 kHz	✓	28 ch	3	5/5/5	5/2	3/3	2	4	-	-	-	✓	✓	✓	\$3.51	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	R	51	PIC32	128 + 12	16	AN1095 [‡]	0/0	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	2/0	2	2	-	-	-	✓	✓	✓	\$3.57	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	R	51	PIC32	128 + 12	32	AN1095 [‡]	4/6	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	3/0	4	6	OTG	10/100	1	✓	✓	-	\$3.57	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	R	49	PIC32	256 + 12	64	AN1095 [‡]	4/2	2.3V-3.6V	120	8 MHz, 32 kHz	✓	28 ch	2	5/5/5	5/2	2/2	2	4	OTG	-	-	✓	✓	✓	\$3.65	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	R	49	PIC32	512 + 3	64	AN1095 [‡]	4/2	2.3V-3.6V	50	8 MHz, 32 kHz	✓	28 ch	3	5/5/5	5/2	3/3	2	4	OTG	-	-	✓	✓	✓	\$3.65	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	R	51	PIC32	128 + 12	32	AN1095 [‡]	4/0	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	2/0	2	2	-	-	-	✓	✓	-	\$3.77	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	R	49	PIC32	512 + 3	64	AN1095 [‡]	4/4	2.3V-3.6V	50	8 MHz, 32 kHz	✓	28 ch	3	5/5/5	5/2	3/3	2	4	OTG	-	1	✓	✓	✓	\$3.79	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	R	51	PIC32	256 + 12	32	AN1095 [‡]	4/0	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	2/0	2	2	-	-	-	✓	✓	-	\$3.88	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	R	51	PIC32	128 + 12	32	AN1095 [‡]	4/2	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	2/0	2	2	-	-	-	✓	✓	-	\$4.02	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	R	51	PIC32	512 + 12	32	AN1095 [‡]	4/0	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	2/0	2	2	OTG	-	-	✓	✓	-	\$4.06	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	R	51	PIC32	256 + 12	32	AN1095 [‡]	4/2	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	2/0	2	2	OTG	-	-	✓	✓	-	\$4.12	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	R	51	PIC32	512 + 12	32	AN1095 [‡]	4/2	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	2/0	2	2	OTG	-	-	✓	✓	-	\$4.28	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	R	51	PIC32	512 + 12	128	AN1095 [‡]	4/0	2.3V-3.6V	80	8 MHz, 32 kHz	✓	28 ch	2	5/5/5	5/2	2/2	2	4	-	-	-	✓	✓	✓	\$4.33	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	R	49	PIC32	512 + 12	128	AN1095 [‡]	4/2	2.3V-3.6V	120	8 MHz, 32 kHz	✓	28 ch	2	5/5/5	5/2	2/2	2	4	OTG	-	-	✓	✓	✓	\$4.47	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	R	51	PIC32	256 + 12	64	AN1095 [‡]	8/4	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	3/0	4	6	OTG	-	1	✓	✓	-	\$4.96	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	R	51	PIC32	256 + 12	64	AN1095 [‡]	8/4	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	3/0	4	6	OTG	10/100	-	✓	✓	-	\$5.19	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	R	51	PIC32	512 + 12	64	AN1095 [‡]	8/4	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	3/0	4	6	OTG	-	1	✓	✓	-	\$5.42	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	R	51	PIC32	256 + 12	64	AN1095 [‡]	8/8	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	3/0	4	6	OTG	10/100	2	✓	✓	-	\$5.42	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	R	51	PIC32	512 + 12	64	AN1095 [‡]	8/4	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	3/0	4	6	OTG	10/100	-	✓	✓	-	\$5.66	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	R	51	PIC32	512 + 12	64	AN1095 [‡]	8/8	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	3/0	4	6	OTG	10/100	2	✓	✓	-	\$5.88	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	R	51	PIC32	512 + 12	128	AN1095 [‡]	8/4	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	3/0	4	6	OTG	10/100	-	✓	✓	-	\$6.13	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	R	51	PIC32	512 + 12	128	AN1095 [‡]	8/8	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	3/0	4	6	OTG	10/100	2	✓	✓	-	\$6.36	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	R	85	PIC32	128 + 3	16	AN1095 [‡]	4/0	2.3V-3.6V	50	8 MHz, 32 kHz	✓	48 ch	3	5/5/5	5/2	4/4	2	5	-	-	-	✓	✓	✓	\$2.65	POR, BOR, LVD, WDT	TQFP (PT), TQFP (PF)
	R	81	PIC32	128 + 3	16	AN1095 [‡]	4/2	2.3V-3.6V	50	8 MHz, 32 kHz	✓	48 ch	3	5/5/5	5/2	4/4	2	5	OTG	-	-	✓	✓	✓	\$2.79	POR, BOR, LVD, WDT	TQFP (PT), TQFP (PF)
	R	85	PIC32	64 + 12	16	AN1095 [‡]	4/0	2.3V-3.6V	80	8 MHz, 32 kHz	✓	28	2	5/5/5	5/2	2/2	2	5	-	-	-	✓	✓	-	\$2.85	POR, BOR, LVD, WDT	TQFP (PT), PF, VTLA (TL)
	R	81	PIC32	128 + 3	16	AN1095 [‡]	4/4	2.3V-3.6V	50	8 MHz, 32 kHz	✓	48 ch	3	5/5/5	5/2	4/4	2	5	OTG	-	1	✓	✓	✓	\$2.93	POR, BOR, LVD, WDT	TQFP (PT), TQFP (PF)
	R	81	PIC32	64 + 12	16	AN1095 [‡]	4/2	2.3V-3.6V	80	8 MHz, 32 kHz	✓	28	2	5/5/5	5/2	2/2	2	5	OTG	-	-	✓	✓	-	\$2.98	POR, BOR, LVD, WDT	TQFP (PT), PF, VTLA (TL)
	R	85	PIC32	256 + 3	32	AN1095 [‡]	4/0	2.3V-3.6V	50	8 MHz, 32 kHz	✓	48 ch	3	5/5/5	5/2	4/4	2	5	-	-	-	✓	✓	✓	\$3.01	POR, BOR, LVD, WDT	TQFP (PT), TQFP (PF)
	R	81	PIC32	256 + 3	32	AN1095 [‡]	4/2	2.3V-3.6V	50	8 MHz, 32 kHz	✓	48 ch	3	5/5/5	5/2	4/4	2	5	OTG	-	-	✓	✓	✓	\$3.15	POR, BOR, LVD, WDT	TQFP (PT), TQFP (PF)
	R	85	PIC32	128 + 12	32	AN1095 [‡]	4/0	2.3V-3.6V	80	8 MHz, 32 kHz	✓	28 ch	2	5/5/5	5/2	2/2	2	5	-	-	-	✓	✓	✓	\$3.22	POR, BOR, LVD, WDT	TQFP (PT), PF, VTLA (TL)
	R	81	PIC32	256 + 3	32	AN1095 [‡]	4/4	2.3V-3.6V	50	8 MHz, 32 kHz	✓	48 ch	3	5/5/5	5/2	4/4	2	5	OTG	-	1	✓	✓	✓	\$3.29	POR, BOR, LVD, WDT	TQFP (PT), PF, TQFP (PF)
	R	85	PIC32	64 + 12	16	AN1095 [‡]	4/4	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	-	1	✓	✓	-	\$3.35	POR, BOR, LVD, WDT	TQFP (PT), PF, XBGA (BG)
	R	81	PIC32	128 + 12	32	AN1095 [‡]	4/2	2.3V-3.6V	80	8 MHz, 32 kHz	✓	28 ch	2	5/5/5	5/2	2/2	2	5	OTG	-	-	✓	✓	✓	\$3.36	POR, BOR, LVD, WDT	TQFP (PT), PF, VTLA (TL)
	R	85	PIC32	64 + 12	32	AN1095 [‡]	4/4	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	-	1	✓	✓	-	\$3.50	POR, BOR, LVD, WDT	TQFP (PT), PF, XBGA (BG)
	R	85	PIC32	128 + 12	32	AN1095 [‡]	4/4	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	-	1	✓	✓	-	\$3.68	POR, BOR, LVD, WDT	TQFP (PT), PF, XBGA (BG)
	R	85	PIC32	64 + 12	32	AN1095 [‡]	4/4	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	10/100	-	✓	✓	-	\$3.68	POR, BOR, LVD, WDT	TQFP (PT), PF, XBGA (BG)
	R	85	PIC32	128 + 12	32	AN1095 [‡]	4/4	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	10/100	-	✓	✓	-	\$3.86	POR, BOR, LVD, WDT	TQFP (PT), PF, XBGA (BG)
	R	85	PIC32	256 + 12	64	AN1095 [‡]	4/0	2.3V-3.6V	80	8 MHz, 32 kHz	✓	28 ch	2	5/5/5	5/2	2/2	2	5	-	-	-	✓	✓	✓	\$3.93	POR, BOR, LVD, WDT	TQFP (PT), PF, VTLA (TL)
	R	85	PIC32	128 + 12	32	AN1095 [‡]	4/6	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	10/100	1	✓	✓	-	\$3.96	POR, BOR, LVD, WDT	TQFP (PT), PF, XBGA (BG)
	R	85	PIC32	512 + 3	64	AN1095 [‡]	4/0	2.3V-3.6V	50	8 MHz, 32 kHz	✓	48 ch	3	5/5/5	5/2	4/4	2	5	-	-	-	✓	✓	✓	\$3.96	POR, BOR, LVD, WDT	TQFP (PT), TQFP (PF)
	R	81	PIC32	256 + 12	64	AN1095 [‡]	4/2	2.3V-3.6V	120	8 MHz, 32 kHz	✓	28 ch	2	5/5/5	5/2</												

32-BIT PIC32MX MICROCONTROLLERS

Product	Released (R) Not Released (NR)		I/O Pins	Core	Memory		EEPROM	DMA Channels General/Dedicated	Operating Speed	Charge Time Measurement Unit	Analog	IC/OC/PWM	Timers 16-/32-bit		Communication		Monitors	System Mgmt. Features	Packages (Designator)								
					Flash KB + Boot Flash	Data RAM (KB)							SPI/S	PC	UARTs	FS USB											
PIC32MX440F128L	R	85	PIC32	128 + 12	32	AN1095 ⁽¹⁾	4/2	2.3V–3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	2/0	2	OTG	–	–	✓	✓	–	\$4.47	POR, BOR, LVD, WDT	TQFP (PT), XBGA (BG)	
PIC32MX460F256L	R	85	PIC32	256 + 12	32	AN1095 ⁽¹⁾	4/2	2.3V–3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	2/0	2	OTG	–	–	✓	✓	–	\$4.55	POR, BOR, LVD, WDT	TQFP (PT), XBGA (BG)	
PIC32MX460F512L	R	85	PIC32	512 + 12	32	AN1095 ⁽¹⁾	4/2	2.3V–3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	2/0	2	OTG	–	–	✓	✓	–	\$4.69	POR, BOR, LVD, WDT	TQFP (PT), XBGA (BG)	
PIC32MX370F512L	R	83	PIC32	512 + 12	128	AN1095 ⁽¹⁾	4/0	2.3V–3.6V	80	8 MHz, 32 kHz	✓	28 ch	2	5/5/5	5/2	2/2	2	5	–	–	–	✓	✓	✓	\$4.75	POR, BOR, LVD, WDT	TQFP (PT, PF), VTLA (TL)
PIC32MX470F512L	R	81	PIC32	512 + 12	128	AN1095 ⁽¹⁾	4/2	2.3V–3.6V	120	8 MHz, 32 kHz	✓	28 ch	2	5/5/5	5/2	2/2	2	5	OTG	–	–	✓	✓	✓	\$4.89	POR, BOR, LVD, WDT	TQFP (PT, PF), VTLA (TL)
PIC32MX575F256L	R	85	PIC32	256 + 12	64	AN1095 ⁽¹⁾	8/2	2.3V–3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	–	1	✓	✓	–	\$5.43	POR, BOR, LVD, WDT	TQFP (PT, PF), XBGA (BG)
PIC32MX675F256L	R	85	PIC32	256 + 12	64	AN1095 ⁽¹⁾	8/4	2.3V–3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	10/100	–	✓	✓	–	\$5.67	POR, BOR, LVD, WDT	TQFP (PT, PF), XBGA (BG)
PIC32MX575F512L	R	85	PIC32	512 + 12	64	AN1095 ⁽¹⁾	8/4	2.3V–3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	–	1	✓	✓	–	\$5.89	POR, BOR, LVD, WDT	TQFP (PT, PF), XBGA (BG)
PIC32MX775F256L	R	85	PIC32	256 + 12	64	AN1095 ⁽¹⁾	8/8	2.3V–3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	10/100	2	✓	✓	–	\$5.89	POR, BOR, LVD, WDT	TQFP (PT, PF), XBGA (BG)
PIC32MX775F512L	R	85	PIC32	512 + 12	64	AN1095 ⁽¹⁾	8/4	2.3V–3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	10/100	–	✓	✓	–	\$6.13	POR, BOR, LVD, WDT	TQFP (PT, PF), XBGA (BG)
PIC32MX775F512L	R	85	PIC32	512 + 12	64	AN1095 ⁽¹⁾	8/8	2.3V–3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	10/100	2	✓	✓	–	\$6.38	POR, BOR, LVD, WDT	TQFP (PT, PF), XBGA (BG)
PIC32MX695F512L	R	85	PIC32	512 + 12	128	AN1095 ⁽¹⁾	8/4	2.3V–3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	10/100	–	✓	✓	–	\$6.61	POR, BOR, LVD, WDT	TQFP (PT, PF), XBGA (BG)
PIC32MX795F512L	R	85	PIC32	512 + 12	128	AN1095 ⁽¹⁾	8/8	2.3V–3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	10/100	2	✓	✓	–	\$6.83	POR, BOR, LVD, WDT	TQFP (PT, PF), XBGA (BG), VTLA (TL)

Note 1: See Application Note "AN1095: Emulating Data EEPROM".

32-BIT PIC32MZ WITH FLOATING POINT UNIT (FPU) MICROCONTROLLERS

Product	Released (R) Not Released (NR)		I/O Pins	Core	Memory		EEPROM	DMA Channels General/Dedicated	Operating Speed	Analog	IC/OC/PWM	Timers 16-/32-bit		Communication		Monitors	System Mgmt. Features	Packages (Designator)								
					Flash KB + Boot Flash	Data RAM (KB)						SPI/S	PC	UARTs	HS USB											
PIC32MZ0512EFE064	R	46	PIC32	512 + 160	128	AN1095 ⁽¹⁾	8/12	2.1–3.6V	200	8 MHz, 32 kHz	24	2	9/9/9	9/4	4	4	6	OTG	10/100	–	✓	–	–	\$5.74	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
PIC32MZ0512EFF064	R	46	PIC32	512 + 160	128	AN1095 ⁽¹⁾	8/16	2.1–3.6V	200	8 MHz, 32 kHz	24	2	9/9/9	9/4	4	4	6	OTG	10/100	2	✓	–	✓	\$5.88	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
PIC32MZ0512EKF064	R	46	PIC32	512 + 160	128	AN1095 ⁽¹⁾	8/18	2.1–3.6V	200	8 MHz, 32 kHz	24	2	9/9/9	9/4	4	4	6	OTG	10/100	2	✓	✓	–	\$6.02	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
PIC32MZ1024EFE064	R	46	PIC32	1024 + 160	256	AN1095 ⁽¹⁾	8/12	2.1–3.6V	200	8 MHz, 32 kHz	24	2	9/9/9	9/4	4	4	6	OTG	10/100	–	✓	–	✓	\$6.16	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
PIC32MZ1024EFF064	R	46	PIC32	1024 + 160	256	AN1095 ⁽¹⁾	8/16	2.1–3.6V	200	8 MHz, 32 kHz	24	2	9/9/9	9/4	4	4	6	OTG	10/100	2	✓	–	✓	\$6.30	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
PIC32MZ1024EFG064	R	46	PIC32	1024 + 160	512	AN1095 ⁽¹⁾	8/12	2.1–3.6V	200	8 MHz, 32 kHz	24	2	9/9/9	9/4	4	4	6	OTG	10/100	–	✓	–	✓	\$6.68	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
PIC32MZ1024EFH064	R	46	PIC32	1024 + 160	512	AN1095 ⁽¹⁾	8/16	2.1–3.6V	200	8 MHz, 32 kHz	24	2	9/9/9	9/4	4	4	6	OTG	10/100	2	✓	–	✓	\$7.00	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
PIC32MZ1024EKF064	R	46	PIC32	1024 + 160	256	AN1095 ⁽¹⁾	8/18	2.1–3.6V	200	8 MHz, 32 kHz	24	2	9/9/9	9/4	4	4	6	OTG	10/100	2	✓	✓	–	\$6.44	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
PIC32MZ1024EFM064	R	46	PIC32	1024 + 160	512	AN1095 ⁽¹⁾	8/18	2.1–3.6V	200	8 MHz, 32 kHz	24	2	9/9/9	9/4	4	4	6	OTG	10/100	2	✓	✓	✓	\$7.14	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
PIC32MZ2048EFG064	R	46	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/12	2.1–3.6V	200	8 MHz, 32 kHz	24	2	9/9/9	9/4	4	4	6	OTG	10/100	–	✓	–	✓	\$7.70	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
PIC32MZ2048EFH064	R	46	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/16	2.1–3.6V	200	8 MHz, 32 kHz	24	2	9/9/9	9/4	4	4	6	OTG	10/100	2	✓	–	✓	\$7.84	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
PIC32MZ2048EFM064	R	46	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/18	2.1–3.6V	200	8 MHz, 32 kHz	24	2	9/9/9	9/4	4	4	6	OTG	10/100	2	✓	✓	✓	\$7.98	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
PIC32MZ0512EFE100	R	78	PIC32	512 + 160	128	AN1095 ⁽¹⁾	8/12	2.1–3.6V	200	8 MHz, 32 kHz	40	2	9/9/9	9/4	6	5	6	OTG	10/100	–	✓	–	✓	\$6.16	POR, BOR, LVD, WDT	TQFP (PT, PF)
PIC32MZ0512EFF100	R	78	PIC32	512 + 160	128	AN1095 ⁽¹⁾	8/16	2.1–3.6V	200	8 MHz, 32 kHz	40	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	–	✓	\$6.30	POR, BOR, LVD, WDT	TQFP (PT, PF)
PIC32MZ0512EKF100	R	78	PIC32	512 + 160	128	AN1095 ⁽¹⁾	8/18	2.1–3.6V	200	8 MHz, 32 kHz	40	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	✓	✓	\$6.44	POR, BOR, LVD, WDT	TQFP (PT, PF)
PIC32MZ1024EFE100	R	78	PIC32	1024 + 160	256	AN1095 ⁽¹⁾	8/12	2.1–3.6V	200	8 MHz, 32 kHz	40	2	9/9/9	9/4	6	5	6	OTG	10/100	–	✓	–	✓	\$6.58	POR, BOR, LVD, WDT	TQFP (PT, PF)
PIC32MZ1024EFF100	R	78	PIC32	1024 + 160	256	AN1095 ⁽¹⁾	8/16	2.1–3.6V	200	8 MHz, 32 kHz	40	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	–	✓	\$6.72	POR, BOR, LVD, WDT	TQFP (PT, PF)
PIC32MZ1024EFG100	R	78	PIC32	1024 + 160	512	AN1095 ⁽¹⁾	8/12	2.1–3.6V	200	8 MHz, 32 kHz	40	2	9/9/9	9/4	6	5	6	OTG	10/100	–	✓	–	✓	\$7.28	POR, BOR, LVD, WDT	TQFP (PT, PF)
PIC32MZ1024EFH100	R	78	PIC32	1024 + 160	512	AN1095 ⁽¹⁾	8/16	2.1–3.6V	200	8 MHz, 32 kHz	40	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	–	✓	\$7.42	POR, BOR, LVD, WDT	TQFP (PT, PF)
PIC32MZ1024EFK100	R	78	PIC32	1024 + 160	256	AN1095 ⁽¹⁾	8/18	2.1–3.6V	200	8 MHz, 32 kHz	40	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	✓	✓	\$6.86	POR, BOR, LVD, WDT	TQFP (PT, PF)

Note 1: See Application Note "AN1095: Emulating Data EEPROM".

† Pricing subject to change; please contact your Microchip representative for most current pricing.

Products sorted by pin count followed by pricing.

32-BIT PIC32MZ WITH FLOATING POINT UNIT (FPU) MICROCONTROLLERS

Product		Released (R) Not Released (NR)	I/O Pins	Core	Memory			DMA Channels General/Dedicated	Voltage Range	Maximum Speed (MHz)	Operating Speed		Analog		IC/OC/PWM	Times 16-/32-bit		Communication					Monitors			System Mgmt. Features	Packages (Designator)	
					Flash KB + Boot Flash	Data RAM (KB)	EEPROM				ADC 10-bit	Comparators	SPI/I ² S	I ² C	UARTs	HS USB	Ethernet	CAN	SQI	Crypto Engine	EBI	PMP	RTCC	PPS	5 kHz Pricing [†]			
100-Pin	PIC32MZ1024EFM100	R	78	PIC32	1024 + 160	512	AN1095 ⁽¹⁾	8/18	2.1–3.6V	200	8 MHz, 32 kHz	40	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	✓	✓	✓	\$7.56	POR, BOR, LVD, WDT	TQFP (PT, PF)
	PIC32MZ2048EFG100	R	78	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/12	2.1–3.6V	200	8 MHz, 32 kHz	40	2	9/9/9	9/4	6	5	6	OTG	10/100	–	✓	–	✓	✓	\$8.12	POR, BOR, LVD, WDT	TQFP (PT, PF)
	PIC32MZ2048EFH100	R	78	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/16	2.1–3.6V	200	8 MHz, 32 kHz	40	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	–	✓	✓	\$8.26	POR, BOR, LVD, WDT	TQFP (PT, PF)
	PIC32MZ2048EFM100	R	78	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/18	2.1–3.6V	200	8 MHz, 32 kHz	40	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	✓	✓	✓	\$8.40	POR, BOR, LVD, WDT	TQFP (PT, PF)
124-Pin	PIC32MZ0512EFE124	R	97	PIC32	512 + 160	128	AN1095 ⁽¹⁾	8/12	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	–	✓	–	✓	✓	\$6.58	POR, BOR, LVD, WDT	VTLA (TL)
	PIC32MZ0512EFF124	R	97	PIC32	512 + 160	128	AN1095 ⁽¹⁾	8/16	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	–	✓	✓	\$6.72	POR, BOR, LVD, WDT	VTLA (TL)
	PIC32MZ0512EFK124	R	97	PIC32	512 + 160	128	AN1095 ⁽¹⁾	8/18	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	✓	✓	✓	\$6.86	POR, BOR, LVD, WDT	VTLA (TL)
	PIC32MZ1024EFE124	R	97	PIC32	1024 + 160	256	AN1095 ⁽¹⁾	8/12	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	–	✓	–	✓	✓	\$7.00	POR, BOR, LVD, WDT	VTLA (TL)
	PIC32MZ1024EFF124	R	97	PIC32	1024 + 160	256	AN1095 ⁽¹⁾	8/16	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	–	✓	✓	\$7.14	POR, BOR, LVD, WDT	VTLA (TL)
	PIC32MZ1024EFG124	R	97	PIC32	1024 + 160	512	AN1095 ⁽¹⁾	8/12	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	–	✓	–	✓	✓	\$7.70	POR, BOR, LVD, WDT	VTLA (TL)
	PIC32MZ1024EFH124	R	97	PIC32	1024 + 160	512	AN1095 ⁽¹⁾	8/16	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	–	✓	✓	\$7.84	POR, BOR, LVD, WDT	VTLA (TL)
	PIC32MZ1024EFK124	R	97	PIC32	1024 + 160	256	AN1095 ⁽¹⁾	8/18	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	✓	✓	✓	\$7.28	POR, BOR, LVD, WDT	VTLA (TL)
	PIC32MZ1024EFM124	R	97	PIC32	1024 + 160	512	AN1095 ⁽¹⁾	8/18	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	✓	✓	✓	\$7.98	POR, BOR, LVD, WDT	VTLA (TL)
	PIC32MZ2048EFG124	R	97	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/12	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	–	✓	–	✓	✓	\$8.54	POR, BOR, LVD, WDT	VTLA (TL)
	PIC32MZ2048EFH124	R	97	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/16	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	–	✓	✓	\$8.68	POR, BOR, LVD, WDT	VTLA (TL)
	PIC32MZ2048EFM124	R	97	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/18	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	✓	✓	✓	\$8.82	POR, BOR, LVD, WDT	VTLA (TL)
144-Pin	PIC32MZ0512EFE144	R	120	PIC32	512 + 160	128	AN1095 ⁽¹⁾	8/12	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	–	✓	–	✓	✓	\$7.07	POR, BOR, LVD, WDT	TQFP (PH), LQFP (PL)
	PIC32MZ0512EFF144	R	120	PIC32	512 + 160	128	AN1095 ⁽¹⁾	8/16	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	–	✓	✓	\$7.21	POR, BOR, LVD, WDT	TQFP (PH), LQFP (PL)
	PIC32MZ0512EFK144	R	120	PIC32	512 + 160	128	AN1095 ⁽¹⁾	8/18	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	✓	✓	✓	\$7.35	POR, BOR, LVD, WDT	TQFP (PH), LQFP (PL)
	PIC32MZ1024EFE144	R	120	PIC32	1024 + 160	256	AN1095 ⁽¹⁾	8/12	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	–	✓	–	✓	✓	\$7.49	POR, BOR, LVD, WDT	TQFP (PH), LQFP (PL)
	PIC32MZ1024EFF144	R	120	PIC32	1024 + 160	256	AN1095 ⁽¹⁾	8/16	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	–	✓	✓	\$7.63	POR, BOR, LVD, WDT	TQFP (PH), LQFP (PL)
	PIC32MZ1024EFG144	R	120	PIC32	1024 + 160	512	AN1095 ⁽¹⁾	8/12	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	–	✓	–	✓	✓	\$8.19	POR, BOR, LVD, WDT	TQFP (PH), LQFP (PL)
	PIC32MZ1024EFH144	R	120	PIC32	1024 + 160	512	AN1095 ⁽¹⁾	8/16	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	–	✓	✓	\$8.33	POR, BOR, LVD, WDT	TQFP (PH), LQFP (PL)
	PIC32MZ1024EFK144	R	120	PIC32	1024 + 160	256	AN1095 ⁽¹⁾	8/18	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	✓	✓	✓	\$7.77	POR, BOR, LVD, WDT	TQFP (PH), LQFP (PL)
	PIC32MZ1024EFM144	R	120	PIC32	1024 + 160	512	AN1095 ⁽¹⁾	8/18	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	✓	✓	✓	\$8.47	POR, BOR, LVD, WDT	TQFP (PH), LQFP (PL)
	PIC32MZ2048EFG144	R	120	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/12	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	–	✓	–	✓	✓	\$9.03	POR, BOR, LVD, WDT	TQFP (PH), LQFP (PL)
	PIC32MZ2048EFH144	R	120	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/16	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	–	✓	✓	\$9.17	POR, BOR, LVD, WDT	TQFP (PH), LQFP (PL)
	PIC32MZ2048EFM144	R	120	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/18	2.1–3.6V	200	8 MHz, 32 kHz	48	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	✓	✓	✓	\$9.31	POR, BOR, LVD, WDT	TQFP (PH), LQFP (PL)

Note 1: See Application Note "AN1095: Emulating Data EEPROM".

Products sorted by pin count followed by pricing.

[†] Pricing subject to change; please contact your Microchip representative for most current pricing.

THERMAL MANAGEMENT: Temperature Sensors											
Product	Description	# Temps. Monitored	Typical/Max Accuracy (°C)	Temp. Range (°C)	Vcc Range (V)	Typical Supply Current (µA)	Alerts	Resistance Error Correction	Beta Compensation	Packages	
MCP9501/2/3/4	Temperature Switch replacing MAX6501/2/3/4	1	1.0/3.0	-40 to +125	+2.7 to +5.5	25	-	-	-	5-pin SOT-23	
MCP9509/10	Resistor-Programmable Temperature Switch	1	0.5/3.5	-40 to +125	+2.7 to +5.5	30	-	-	-	5-pin SOT-23	
MCP9800/1/2/3	SMBus/I ² C Temperature Sensor	1	0.5/1.0	-55 to +125	+2.7 to +5.5	200	1	-	-	5-pin SOT-23	
MCP9804	SMBus/I ² C Temperature Sensor	1	0.25/1.0	-40 to +125	+2.7 to +5.5	200	1	-	-	8-pin DFN, 8-pin MSOP	
MCP9808	SMBus/I ² C Temperature Sensor	1	0.25/0.5	-40 to +125	+2.7 to +5.5	200	1	-	-	8-pin DFN, 8-pin MSOP	
MCP98244	SMBus/I ² C Temperature Sensor with EEPROM	1	0.5/3.0	-40 to +125	+2.2 to +3.6	100	1	-	-	8-pin TDFN	
MCP9902/3/4	Lower Temperature Multi Temperature Sensors	2/3/4	0.25/1.0	-40 to +125	+3.0 to +3.6	200	1	✓	Automatic	8-pin WDFN, 10-pin VDFN	
TCT75A	SMBus/I ² C Temperature Sensor	1	0.5/3.0	-40 to +125	+2.7 to +5.5	200	1	-	-	8-pin MSOP, 8-pin SOIC 150mil	
MCP9700/01	Linear Active Thermistor IC	1	1.0/4.0	-40 to +150	+2.3 to +5.5	6	-	-	-	3-pin SOT-23, 3-pin TO-92, 5-pin SC-70	
MCP9700/01A	Linear Active Thermistor IC	1	1.0/2.0	-40 to +150	+2.3 to +5.5	6	-	-	-	3-pin SOT-23, 3-pin TO-92, 5-pin SC-70	
EMC1033	SMBus/I ² C Multi Temperature Sensor	3	1.0/3.0	-40 to +125	+3.0 to +3.6	50	2	✓	-	8-pin MSOP	
EMC1043	SMBus/I ² C Multi Temperature Sensor	3	0.5/1.0	-40 to +125	+3.0 to +3.6	105	-	✓	Configurable	8-pin MSOP	
EMC1046	SMBus/I ² C Multi Temp Sensor with Hottest of Zones	6	0.25/1.0	-40 to +125	+3.0 to +3.6	395	-	✓	Automatic	10-pin MSOP	
EMC1047	SMBus/I ² C Multi Temp Sensor with Hottest of Zones	7	0.25/1.0	-40 to +125	+3.0 to +3.6	395	-	✓	Automatic	10-pin MSOP	
EMC1182/3/4	1.8V SMBus/I ² C Multi Temp Sensor	2/3/4	0.25/1.0	-40 to +125	+3.0 to +3.6	-	2	✓	Automatic	8-pin TDFN, 8-pin DFN, 10-pin DFN	
EMC1186/7/8	1.8V SMBus/I ² C Multi Temp Sensor with Shutdown	2/3/4	0.25/1.0	-40 to +125	+3.0 to +3.6	-	1	✓	Automatic	8-pin TDFN, 10-pin DFN	
EMC1412/3/4	SMBus/I ² C Multi Temperature Sensor	2/3/4	0.25/1.0	-40 to +125	+3.0 to +3.6	430	2	✓	Automatic	8-pin TDFN, 8-pin MSOP, 10-pin DFN, 10-pin MSOP	
EMC1422/3/4	SMBus/I ² C Multi Temp Sensor with Shutdown	2/3/4	0.25/1.0	-40 to +125	+3.0 to +3.6	430	1	✓	Automatic	8-pin MSOP, 10-pin MSOP	
EMC1428	SMBus/I ² C Multi Temp Sensor with Hottest of Zones	8	0.25/1.0	-40 to +125	+3.0 to +3.6	450	1	✓	Automatic	16-pin QFN	

THERMAL MANAGEMENT: Sensor Conditioning ICs

Product	Typical Tc Accuracy (%)	Typical Th Accuracy (%)	Operating Temp. Range (°C)	Vcc Range Max (V)	Max Supply Current (µA)	Features	Packages
MCP9600	1	1	-40 to +125	2.7 to 5.5	500	Full integrated thermocouple EMF to temperature converter. Supports thermocouple types K, J, T, N, S, E B and R.	5 x 5 MQFN

THERMAL MANAGEMENT: Fan Controllers

Product	Description	# Fan Drivers	PWM/Linear Control	# External Temp. Inputs	Typical Accuracy	Max. Accuracy	Vcc Range (V)	Interface	Alerts	Fan Speed Lookup Table	Packages
EMC2101	Programmable Fan Controller with Thermal Mgt	1	PWM	2	0.5	1.0	+3.0 to +3.6	SMBus/I ² C	✓	✓	8-pin MSOP, 8-pin SOIC
EMC2300	Programmable Multi-Fan Controller with Thermal Mgt	3	PWM	3	0.25	3.0	+3.0 to +3.6	SMBus/I ² C	✓	✓	16-pin SSOP
EMC2112	Programmable Fan Controller with Thermal Mgt	1	Linear	3	0.25	1.0	+3.3 and +5	SMBus/I ² C	✓	✓	20-pin QFN
EMC2103-1	Programmable Fan Controller with Thermal Mgt	1	PWM	1	0.5	1.0	+3.0 to +3.6	SMBus/I ² C	✓	✓	12-pin QFN
EMC2103-4	Programmable Fan Controller with EEPROM Load	1	PWM	3	0.5	1.0	+3.0 to +3.6	SMBus/I ² C	✓	✓	16-pin QFN
EMC2104	Programmable Multi-Fan Controller with Thermal Mgt	2	PWM	4	0.25	1.0	+3.0 to +3.6	SMBus/I ² C	✓	✓	20-pin QFN
EMC2105	Programmable Fan Controller with Thermal Mgt	1	Linear	4	0.25	1.0	+3.3 and +5	SMBus/I ² C	✓	✓	20-pin QFN
EMC2113	Programmable Fan Controller with Thermal Mgt	1	PWM	3	0.5	1.0	+3.0 to +3.6	SMBus/I ² C	✓	✓	16-pin QFN
EMC2301/2/3/5	Programmable Fan Controller	1 / 2 / 3 / 5	PWM	-	-	-	+3.0 to +3.6	SMBus/I ² C	✓	-	8-pin MSOP, 10-pin MSOP, 12-pin QFN, 16-pin QFN

POWER MANAGEMENT: Switching Regulators

Product	Input Voltage Range (V)	Output Voltage (V)	Operating Temp. Range (°C)	Switching Frequency (kHz)	Output Current (mA)	Features	Packages
Single Output Switching Regulator - Step Down Regulators							
MCP1601/3	2.7 to 5.5	0.9V to VIN	-40 to +85	750	500	UVLO, Auto-Switching, LDO/Overtemperature and Overcurrent Protection	8-pin MSOP
MCP1612	2.7 to 5.5	0.8 to 5.5	-40 to +85	1400	1000	Overall Efficiency > 94%, Soft Start, Overtemperature and Overcurrent Protection	8-pin MSOP, 8-pin (3 x 3) DFN
MCP16311/12	4.4 to 30.0	2.0 to 24.0	-40 to +125	500	1000	PFM/PWM Operation, Enable Function	8-pin MSOP, 8-pin (2 x 3) TDFN
MCP16301	4.0 to 30	2.0 to 15	-40 to +85	500	600	Integrated N-channel, UVLO, Soft Start, Overtemperature Protection	6-pin SOT-23
MIC24046	4.5 to 19	0.7 to 3.3	-40 to +125	400-790	5000	Internal Soft-Start and Thermal Shutdown Protection	20-pin (3 x 3) QFN
MIC24051/53/55	4.5 to 19	Adj.	-40 to +125	600	600/9000/1200	Power Good, Soft Start, Architecture Regulation Scheme	28-pin (5 x 6) QFN
MIC24052/54/56	4.5 to 19	Adj.	-40 to +125	600	600/9000/1200	Power Good, Soft Start, HyperLight Load® mode	28-pin (5 x 6) QFN
MIC26601/MIC26901/MIC26950	4.5 to 28	Adj.	-40 to +125	600	6000/9000/12000	Power Good, Soft Start, Hyper Speed Control® architecture	28-pin (5 x 6) QFN
MIC26603/MIC26903	4.5 to 28	Adj.	-40 to +125	600	6000	Power Good, Soft Start, HyperLight Load mode	28-pin (5 x 6) QFN
MIC27600	4.5 to 36	Adj.	-40 to +125	300	7000	Soft Start, Architecture Regulation Scheme - Hyper Speed Control architecture, Thermal Shutdown	28-pin (5 x 6) QFN
MIC28510	4.5 to 75	Adj.	-40 to +125	100-500	4000	Soft Start, Architecture Regulation Scheme - Hyper Speed Control architecture, Thermal Shutdown	28-pin (5 x 6) QFN
MIC28511/12/13-1	4.6 to 60/70/45	Adj.	-40 to +125	200-680	3000/2000/4000	Power Good, Soft Start, HyperLight Load mode	24-pin (3 x 4) FCQFN
MIC28511/12/13-2	4.6 to 60/70/45	Adj.	-40 to +125	200-680	3000/2000/4000	Power Good, Soft Start, Hyper Speed Control architecture	24-pin (3 x 4) FCQFN
MIC4930	2.7 to 5.5	Adj.	-40 to +125	3300	3000	Power Good, Safe Start, Thermal Shutdown and Current Limit	10-pin (3 x 4) DFN
MIC4950	2.7 to 5.5	Adj.	-40 to +125	3300	5000	Power Good, Safe Start, Thermal Shutdown and Current Limit	8-pin SOIC, 10-pin (3 x 4) DFN

POWER MANAGEMENT: Switching Regulators							
Product	Input Voltage Range (V)	Output Voltage (V)	Operating Temp. Range (°C)	Switching Frequency (kHz)	Output Current (mA)	Features	Packages
Single Output Switching Regulator – Step Up Regulators							
MCP1623/4	0.65 to 6.0	2.0 to 5.5	-40 to +85	500	175	Integrated synchronous boost regulator, 0.65V start-up voltage, soft start, true load disconnect	6-pin SOT-23, 8-pin (2 x 3) DFN
MCP1642B/D	0.65 to 6.0	1.8 to 5.5	-40 to +85	1000	>800	Integrated synchronous boost regulator, 0.65V start-up voltage, soft start, enable, power good output, true load disconnect or input-to-output bypass option	8-pin MSOP, 8-pin (2 x 3) DFN
MCP16251/2	0.82 to 5.5	1.8 to 5.5	-40 to +85	500	250	True load disconnect shutdown (MCP16251)/Input to output bypass shutdown (MCP16252)	6-pin SOT-23, 8-pin (2 x 3) DFN
MCP1640/B/C/D	0.65 to 6	2.0 to 5.5	-40 to +85	500	350	Integrated synchronous boost regulator, 0.65V start-up voltage, soft start, true load disconnect or input-to-output bypass option	6-pin SOT-23, 8-pin (2 x 3) DFN
MCP1643	0.5	0.6 to 5.0	-40 to +85	1000	550	True load disconnect, shutdown	8-pin MSOP, 8-pin (2 x 3) DFN
MCP1663/4	2.4 to 5.5	Up to 32	-40 to +85	500	>375	High-efficiency (up to 92%), fixed-frequency, non-synchronous, 300 mV feedback for LED driving (MCP1664)	5-pin SOT-23, 8-pin (2 x 3) TDFN
MCP1661/2	2.4 to 5.5	5.5 to 32	-40 to +85	500	>200	Non-synchronous, soft start, Enable, 300 mV feedback for LED driving (MCP1662)	6-pin SOT-23, 8-pin (3 x 3) TDFN
MIC2141	2.5 to 14	Up to 22	-40 to +85	330	1000	Micropower Boost Converter with control signal input to proportionally adjust output voltage	5-pin SOT23
MIC2619	2.8 to 6.5	Up to 35	-40 to +125	1200	350	1.2 MHz PWM Boost Converter with OVP	6-pin Thin SOT23
MIC2290	2.5 to 10	Up to 34	-40 to +125	1200	750	2 x 2 mm PWM Boost Regulator with Internal Schottky Diode	8-pin 2 x 2 MLF®
MIC2605/06	4.5 to 20	Up to 40	-40 to +125	1200/2000	800	0.5A, 1.2 MHz/2 MHz Wide Input Range Boost with Integrated Switch and Schottky Diode	8-pin 2 x 2 MLF
MIC2145	2.4 to 16	Up to 16	-40 to +85	450	900	High-Efficiency 2.5W Boost Converter	8-pin MSOP, 3 x 3 MLF
MIC2570/1	1.3 to 15	Up to 36	-40 to +85	20	1100	Two-Cell/Single-Cell Switching Regulator	8-pin SOIC, 8-pin MSOP
MIC2288	2.5 to 10	Up to 34	-40 to +125	1200	1200	1A 1.2 MHz PWM Boost Converter in Thin SOT-23 and 2 x 2 mm MLF	5-pin SOT23, 2 x 2 MLF
MIC3172	3 to 40	Up to 65	-40 to +85	100	1250	100 kHz, 1.25A Switching Regulators	8-pin SOIC, 8-pin DIP
MIC2295/96	2.5 to 10	Up to 34	-40 to +125	1200/600	1700	High Power Density 1.2A Boost Regulator	5-pin SOT23, 2 x 2 MLF
MIC2601/02	4.5 to 20	Up to 40	-40 to +125	1200/2000	1700	1.2A, 1.2 MHz/2 MHz Wide Input Range Integrated Switch Boost Regulator	8-pin 2 x 2 MLF
MIC2250/51	2.5 to 5.5	Up to 32/27	-40 to +125	Variable	2000	High-Efficiency Low EMI Boost Regulator	5-pin SOT23, 2 x 2 MLF
MIC2172	3 to 40	Up to 65	-40 to +85	100	2000	100 kHz 1.25A Switching Regulator	8-pin DIP, 8-pin SOIC
MIC2253	2.5 to 10	Up to 30	-40 to +125	1000	3500	3.5A 1 MHz High-Efficiency Boost Regulator with OVP and Softstart	12-pin 3 x 3 MLF
MIC2171	3 to 40	Up to 65	-40 to +85	100	4000	100 kHz 2.5A Switching Regulator	5-pin TO220, TO263
MIC2875/76	2.5 to 6	Up to 6	-40 to +125	2000	4800	4.8A ISW, Synchronous Boost Regulator with Bi-Directional Load Disconnect	8-pin TDFN
Multiple Output Switching Regulators							
MIC4742	2.9 to 5.5	Adj./Adj.	-40 to +125	2.0 MHz	2	Micro Power Shutdown, Ultra-Fast Transient Response	16-pin TSSOP, 16-pin (3 x 3) MLF
MIC4744	2.9 to 5.5	Adj./Adj.	-40 to +125	4.0 MHz	2	Micro Power Shutdown, Ultra-Fast Transient Response	16-pin TSSOP, 16-pin (3 x 3) MLF
MIC4782	3 to 6	Adj./Adj.	-20 to +125	1.8 MHz	2	Micro Power Shutdown, Ultra-Fast Transient Response	16-pin (3 x 3) MLF
MIC2238	2.5 to 5.5	1.28/1.28, 1.8/1.2, 1.8/1.545, 1.8/1.575, 1.8/3.3, 1.8/1.6, 2.5/1.2, 3.3/1.2, 3.3/3.3, Adj./Adj.	-40 to +125	2.5 MHz	0.8/0.8	Power Good, Soft Start, Current Limit Protection, Dual Output Voltages	12-pin (3 x 3) MLF
MIC23250	2.7 to 5.5	0.9/1.1, 1.2/1.0, 1.2/1.6, 1.2/1.8, 1.2/2.8, 1.2/3.3, 1.575/1.8, 2.6/3.3, Adj./Adj.	-40 to +125	4.0 MHz	0.4/0.4	20mVpp in HyperLight Load® mode, Soft Start, Ultra-Fast Transient Response	10-pin (2 x 2) MLF, 12-pin (2.5 x 2.5) MLF
MIC23254	2.5 to 5.5	1.0/1.8	-40 to +125	4.0 MHz	0.4/0.4	20mVpp in HyperLight Load mode, Soft Start, Ultra-Fast Transient Response	10-pin (2 x 2) Thin MLF
MIC23450	2.7 to 5.5	Adj./Adj./Adj.	-40 to +125	3.0 MHz	2/2/02	Power Good, Soft Start, HyperLight Load mode	32-pin (5 x 5) QFN
MIC24420	4.5 to 15	Adj./Adj.	-40 to +125	1 MHz	2.5/2.5	Power Good, Soft Start	24-pin (4 x 4) MLF
MIC24421	4.5 to 15	Adj./Adj.	-40 to +125	500	2.5/2.5	Power Good, Soft Start	24-pin (4 x 4) MLF
MIC23158	2.7 to 5.5	Adj./Adj.	-40 to +125	3.0 MHz	2/2	Power Good, Soft Start, HyperLight Load mode	20-pin (3 x 4) MLF
MIC23159	2.7 to 5.5	Adj./Adj.	-40 to +125	3.0 MHz	2/2	Power Good, Soft Start, HyperLight Load mode	20-pin (3 x 4) MLF
MIC23451	2.7 to 5.5	Adj./Adj./Adj.	-40 to +125	3.0 MHz	1/1/1	Power Good, Soft Start, HyperLight Load mode	26-pin (4 x 4) QFN
MIC2230	2.5 to 5.5	1.28/1.65, 1.8/1.2, 1.8/1.545, 1.8/1.575, 1.8/3.3, 1.8/1.6, 2.5/1.2, 3.3/1.2, 3.3/3.3, Adj./Adj.	-40 to +125	2.5 MHz	0.8/0.8	Power Good, Soft Start, Synchronous	12-pin (3 x 3) MLF
MIC7400	2.4 to 5.5	1.8V, 1.1V, 1.8V, 1.05V, 1.25V, 12V or Configurable	-40 to +125	2 MHz Boost, 1.3 MHz Bucks	DC to DC Bucks: 3,000, DC/DC Boost 200	Highly integrated configurable, featuring five buck regulators, one boost regulator, and global Power Good indicator	36-pin 4.5 x 4.5 QFN
MIC7401	2.4 to 5.5	1.8V, 1.1V, 1.8V, 1.05V, 1.25V, 12V or Configurable	-40 to +125	2 MHz Boost, 1.3 MHz Bucks	DC to DC Bucks: 3,000, DC/DC Boost 200	Highly integrated configurable, featuring five buck regulators, one boost regulator, global Power Good indicator and enable pin	36-pin 4.5 x 4.5 QFN
Combination Switching Regulators							
TC1303	2.7 to 5.5	DC/DC: 0.8 to 4.5 LDO: 1.5 to 3.3	-40 to +85	2000	DC/DC: 500 mA LDO: 300 mA	PFM/PWM auto-switching, Power good output	10-pin MSOP, 10-pin (3 x 3) DFN
TC1304	2.7 to 5.5	DC/DC: 0.8 to 4.5 LDO: 1.5 to 3.3	-40 to +85	2000	DC/DC: 500 mA LDO: 300 mA	PFM/PWM auto-switching, Power sequencing	10-pin MSOP, 10-pin (3 x 3) DFN
TC1313	2.7 to 5.5	DC/DC: 0.8 to 4.5 LDO: 1.5 to 3.3	-40 to +85	2000	DC/DC: 500 mA LDO: 300 mA	PFM/PWM auto-switching	10-pin MSOP, 10-pin (3 x 3) DFN

POWER MANAGEMENT: Inductorless Offline Switchers						
Product	VIN (VAC)	Adjustable Vout (V)	Fixed Vout (V)	Iout Max. (mA)	Load Regulation (%/mA)	Packages
SR086	80–285	9.0–50	3.3	100	0.025	8-Lead SOIC with Heat Slug
SR087	80–285	9.0–50	5	100	0.017	8-Lead SOIC with Heat Slug
SR10	80–285	6.0–28	6.0, 12, 24	60	–	8-Lead SOIC

POWER MANAGEMENT: PWM Controllers								
Product	Supported Topologies	Supported Outputs	Input Voltage Range (V)	Output Voltage (V)	Operating Frequency (Hz)	Operating Temperature Range (°C)	Features	Packages
MIC2103/4	Sync. Buck	1	4.5 to 75	0.8 to 24	200k to 600k	–40 to +125	HyperLight Load® Mode, External Clock Sync, Power Good, Soft Start, Internal Compensation and Voltage Bias	16-pin 3 x 3 MLF®
MIC2124	Sync. Buck	1	3.0 to 18	0.8 to 12	300k	–40 to +125	Soft Start, Internal Voltage Bias	10-pin MSOP
MIC2130/1	Sync. Buck	1	8.0 to 40	0.7 to 24	150k or 400k	–40 to +125	Power Good, Soft Start, Internal Voltage Bias	16-pin e-TSSOP, 16-pin 4 x 4 MLF
MIC2150/1	Sync. Buck	2	4.5 to 14.5	0.7 to 5.5	500k	–40 to +125	Power Good, Soft Start, Internal Voltage Bias	24-pin 4 x 4 MLF
MIC2169A/B	Sync. Buck	1	3.0 to 14.5	0.8 to 5.5	500k	–40 to +125	Soft Start, Internal Voltage Bias	10-pin MSOP
MIC2183	Sync. Buck	1	2.9 to 14	1.3 to 12	200k/400k	–40 to +125	External Clock Sync, Soft Start, Internal Voltage Bias	16-pin SOP, 16-pin QSOP
MIC2184	Async. Buck	1	2.9 to 14	1.3 to 12	200k/400k	–40 to +125	External Clock Sync, Soft Start, Internal Voltage Bias	16-pin SOP, 16-pin QSOP
MIC2185	Boost, SEPIC, Ćuk	1	2.9 to 14	3.3 to 5.5	200k/400k	–40 to +125	Skip Mode, External Clock Sync, Soft Start, Internal Voltage Bias	16-pin SOIC, 16-pin QSOP
MIC2186	Boost, SEPIC, Flyback	1	2.9 to 14	3.3 to 5.5	100/200/400k	–40 to +85	Skip Mode, External Clock Sync, Soft Start, Internal Voltage Bias	16-pin SOP, 16-pin QSOP
MIC2193	Sync. Buck	1	2.9 to 14	3.3 to 5.5	400k	–40 to +125	Internal Voltage Bias, UVLO	8-pin SOIC
MIC2194	Async. Buck	1	2.9 to 14	3.3 to 5.5	400k	–40 to +125	Internal voltage Bias, UVLO, Current Limit/Short Circuit Protection	8-pin SOIC
MIC2196	Boost, SEPIC	1	2.9 to 14	3.3 to 5.5	400k	–40 to +125	Internal voltage Bias, UVLO, Current Limit/Short Circuit Protection	8-pin SOIC
MIC38HC42/3/4/5	Forward,Flyback	1	9.0 up to 20	–	Adj. to 500 kHz	–40 to +85	Forward,Flyback Supported Topologies	8-pin PDIP, 14-pin PDIP, 8-pin SOIC, 14-pin SOIC
MIC9130/1	Forward,Flyback	1	9.0 to 180	–	Adj. up to 1.5 MHz	–40 to +125	Forward,Flyback Supported Topologies, External Clock Sync	16-pin SOIC, 16-pin QSOP
MCP1630/1/2	Flyback, Boost, SEPIC, Ćuk	1	3.0 to 5.5	–	Sync. up to 2 MHz	–40 to +125	External Clock Sync, Current Limit/Short Circuit Protection, Soft Start, Internal Voltage Bias, UVLO, Current	20-pin TSSOP, 20-pin SSOP, 20 pin 4 x 4 QFN
MCP1631HV	Flyback, Boost, SEPIC, Ćuk	1	3.5 to 16	–	Sync. to 2 MHz	–40 to +125	External Clock Sync, Current Limit/Short Circuit Protection	20-pin TSSOP, 20-SSOP
MCP19035	Sync. Buck	1	4.5 to 30	–	300k/600k	–40 to +125	Power Good, Soft Start, Internal Voltage Bias, UVLO, Current Limit/Short Circuit Protection	10-pin 3 x 3 DFN

POWER MANAGEMENT: Hybrid PWM Controllers										
Product	Input Voltage Range (V)	Output Voltage (V)	Operating Temp. Range (°C)	Topologies Supported	Integrated MCU	Program Memory Size (kWords)	RAM (bytes)	Features	Packages	
MCP19110	4.5 to 32	90% of VIN	–40 to +125	Buck	✓	4	256	Synchronous buck controller, Integrated MCU, LDO, and synchronous MOSFET driver. User configurable/programmable including MOSFET dead time, Switching frequency, Analog loop compensation, and protection thresholds	4 x 4 QFN	
MCP19111	4.5 to 32	90% of VIN	–40 to +125	Buck	✓	4	256	Contains all features of the MCP19110, with four additional GPIO pins and a debug interface.	5 x 5 QFN	
MCP19114	4.5 to 42	0.5 of VIN (dependent on topology)	–40 to +125	Boost, Flyback, SEPIC, Ćuk	✓	4	256	Dual synchronous low side switch topology support, with excellent current regulation for constant current applications. Integrated MCU, LDO, A/D, MOSFET drivers. Completely configurable operation, including output voltage, current, switching frequency, dead time, transient response, and protection thresholds.	4 x 4 QFN	
MCP19115	4.5 to 42	0.5 of VIN (dependent on topology)	–40 to +125	Boost, Flyback, SEPIC, Ćuk	✓	4	256	Contains all features of the MCP19114, with four additional GPIO pins and a debug interface.	5 x 5 QFN	
MCP19116	4.5 to 42	0.5 of VIN (dependent on topology)	–40 to +125	Boost, Flyback, SEPIC, Ćuk	✓	8	336	Contains all features of MCP19114, with improved current control accuracy, additional code space, and other added benefits.	24-pin 4 x 4 QFN	
MCP19117	4.5 to 42	0.5 of VIN (dependent on topology)	–40 to +125	Boost, Flyback, SEPIC, Ćuk	✓	8	336	Contains all features of the MCP19116, with four additional GPIO pins and a debug interface.	28-pin 5 x 5 QFN	
MCP19118	4.5 to 40	0.5 to 90% of VIN	–40 to +125	Buck	✓	4	256	40V DC operation, 48V transient capability. Synchronous buck controller with integrated MCU, LDO, MOSFET drivers. User configurable/programmable, including MOSFET dead time, switching frequency, analog loop compensation and protection thresholds.	24-pin 4 x 4 QFN	
MCP19119	4.5 to 40	0.5 to 90% of VIN	–40 to +125	Buck	✓	4	256	Contains all features of the MCP19119, with four additional GPIO pins and a debug interface.	28-pin 5 x 5 QFN	

POWER MANAGEMENT: Power Modules											
Product	Input Voltage Range (V)	Output Voltage (V)	Operating Temp. Range (°C)	Control Scheme	Switching Frequency (kHz)	V _{out} Ma × . (V)	Output Current (A)	Features			Packages
MIC28304-1/-2	4.5 to 70	Adj.	-40 to +125	COT	600	24	3	HyperLight Load® mode, Hyper Speed Control® architecture, Power Good, Soft Start			64-pin (12 x 12) QFN
MIC45205-1/-2	4.5 to 26	Adj.	-40 to +125	COT	200-600	5.5	6	HyperLight Load mode, Hyper Speed Control architecture, Power Good, Soft Start			52-pin (8 x 8) QFN
MIC45208-1/-2	4.5 to 26	Adj.	-40 to +125	COT	200-600	5.5	10	HyperLight Load mode, Hyper Speed Control architecture, Power Good, Soft Start			52-pin (10 x 10) QFN
MIC45212-1/-2	4.5 to 26	Adj.	-40 to +125	COT	200-600	5.5	14	HyperLight Load mode, Hyper Speed Control architecture, Power Good, Soft Start			64-pin (12 x 12) QFN
MIC33030	2.7 to 5.5	1.2, 1.8, Adj.	-40 to +125	PWM	8,000	3.6	0.4	HyperLight Load mode			10-pin (2.5 x 2.0) MLF®
MIC33050	2.7 to 5.5	1.0, 1.2, 1.8, 3.3, Adj.	-40 to +125	PWM	4,000	3.3	0.6	HyperLight Load mode			12-pin (3 x 3) MLF
MIC33153	2.7 to 5.5	1.2, Adj.	-40 to +125	PWM	4,000	3.6	1.2	HyperLight Load mode, Power Good, Soft Start			14-pin (3 x 3.5) MLF
MIC3385	2.7 to 5.5	1.5, Adj.	-40 to +125	PWM	8,000	5.5	0.6	LowQ			14-pin (3 x 3.5) MLF
MIC28303-1/-2	4.5 to 50	Adj.	-40 to +125	COT	600	24	3	HyperLight Load mode, Hyper Speed Control architecture, Power Good, Soft Start			64-pin (12 x 12) QFN
MIC45116-1/-2	4.5 to 20	Adj.	-40 to +125	COT	600	17	6	HyperLight Load mode, Hyper Speed Control architecture, Power Good, Soft Start			52-pin (8 x 8) QFN
MIC45404	4.5 to 19	Selectable	-40 to +125	Fix ed	400-790	3.3	5	Power Good, Soft Start			64-pin (6 x 10) QFN

POWER MANAGEMENT: Linear Regulators											
Product	Output Current (mA)	V _{in} Min. (V)	V _{in} Max. (V)	V _{out} (V)	Voltage Drop Typ. (mV)	I _{GND} Typ. (µA)	Output Accuracy (%)	PSRR 1 kHz (dB)	Features		
Single Output Linear Regulators											
MIC5231	10	3.5	12	2.75, 3.0, 3.3, 5.0	150	650 nA	±2	50	High Input Voltage, Small Package		
MIC5280/1/2/3	25/50/100/150	4.5	120	3.3, 5.0, Adj.	1100	31 µA/6 µA	±2/±3	80/90	High Input Voltage, Load Dump, Reverse Battery Protection		
MCP1790/1	70	6	30	3.0, 3.3, 5.0	700	70 µA	±0.2	90	High Input		
MIC5233	100	2.3	36	1.8, 2.5, 3.0, 3.3, 5.0, Adj	270	18 µA	±1	50	High Input Voltage, Reverse Battery and Current Protection		
MIC5270/1	100	-2	-16	(-3.0, (-4.1, (-5.0, Adj,	500	35 µA	±2	50	Negative LDO		
MIC5205/6	150	2.5	16	2.5, 2.7, 2.8, 2.85, 2.9, 3.0, 3.1, 3.2, 3.3, 3.6, 3.8, 4.0, 5.0, Adj	165	80 µA/130 µA	±1	75	High Input Voltage, Small Package		
MIC5234	150	2.3	30	Adj.	320	20 µA	±1	-	High Input Voltage, Load Dump, Reverse Battery and Current Protection		
MIC5308	150	1.6	5.5	1.2, 1.5, 1.8, Adj.	45	23 µA	±2	90	Ultra Low Dropout, Ultra High PSRR		
MIC5365	150	2.5	5.5	1.5, 1.8, 2.0, 2.5, 2.6, 2.7, 2.8, 2.85, 2.9, 3.0, 3.3	155	32 µA	±2	80	High PSRR		
MCP1711	150	1.4	6	1.1 - 5.0	500	0.6 µA	±1	20	Ultra Low Iq, Capless		
MCP1703A	250	2.7	16	1.2 - 5.5	625	2 µA	±0.4	35	High Input, Low Iq		
MIC5501/2/3/4	300	2.5	5.5	1.2, 1.8, 2.8, 3.0, 3.3	160	38 µA	±2	60	Low Dropout		
MIC47050	500	1	3.6	1.2, 1.8, Adj.	44	6 µA	±0.5	50	Ultra Low Dropout		
MIC5209	500	2.5	16	1.8, 2.5, 3.0, 3.3, 3.6, 4.2, 5.0, Adj	350	8 mA	±1	75	High Input Voltage, Small Package		
MIC5239	500	2.3	30	1.5, 1.8, 2.5, 3.0, 3.3, 5.0, Adj	350	23 µA	±1	50	Reverse Battery and Current Protection		
MIC5524	500	2.5	5.5	1.2, 1.8, 2.8, 3.0, 3.3	260	38 µA	±2	65	Low Noise		
MIC39100	1000	2.25	16	1.8, 2.5, 3.3, 5.0	410	6.5 mA	±1	55	Reverse Battery and Current Protection		
MIC47100	1000	1	3.6	0.8, 1.0, 1.2, Adj	80	350 µA	±0.5	80	Ultra Low Dropout		
MIC29151	1500	2.25	26	3.3, 5.0, 12	350	22 mA	±1		Load Dump, Reverse Current Protection		
MIC39151	1500	2.25	16	1.65, 1.8, 2.5	375	17 mA	±1	53	Reverse Battery and Current Protection		
MIC29301	3000	2.25	26	3.3, 5.0, 12	370	37 mA	±1	-	Load Dump, Reverse Current Protection		
MIC29501	5000	2.25	26	3.3, 5.0, 12	370	70 mA	±1	-	Load Dump, Reverse Current Protection		
MIC29751	7500	2.5	26	3.3, 5.0	425	120 mA	±1	-	Load Dump, Reverse Current Protection		

Dual Output Linear Regulators												
Product	Product Type	I _{out} #1	I _{out} #2	I _{out} #3	I _{out} #4	V _{in} Min. (V)	V _{in} Max. (V)	V _{out} (V)	Voltage Drop Typical (mV)	I _{GND} Typ. (µA)	PSRR 1 kHz (dB)	Packages
MIC5370	Dual LDOs	150 mA	150 mA	-	-	2.3	5.5	Please Refer to Datasheet	155	32 µA	60	6-pin UDFN
MIC68220	Dual LDOs	2.0A	2.0A	-	-	1.65	5.5	Please Refer to Datasheet	300	15 mA	40	20-pin VDFN

POWER MANAGEMENT: DDR Termination Regulators											
Product	I _{out}	V _{in} Min. (V)	V _{in} Max. (V)	V _{out} (V)	PWR Good	VTT Accuracy	External Transistor	Sync Buck	Frequency	Features	Packages
MIC5162/4	±7A	1.35	6	1/2 of V _{IN}	N	±5 mV	✓	-	-		10-pin MSOP
MIC5163/5	±7A	0.75	6	1/2 of V _{IN}	N	±5 mV	✓	-	-	Low Voltage	10-pin MSOP
MIC5166	±3A	0.9	3.6	1/2 of V _{IN}	Y	±40 mV	-	-	-	Integrated FETs	3 x 3 DFN
MIC5167	±6A	2.6	5.5	Adj. down to 0.35V	Y	±12 mV	-	✓	1 MHz	Integrated Sync Buck	4 x 4 DFN

POWER MANAGEMENT: Charge Pump DC-to-DC Converters												
Product	Configuration	Input Voltage Range (V)	Output Voltage (V)	Typical Output Current (mA)	Switching Frequency (kHz)	Supply Current (Is, floating output, μ A, 25°C)	Output Resistance (Ω , at typical output current, 25°C)	Power Conversion Efficiency (%)	Features	Packages		
Inverting or Doubling Charge Pumps												
TC682	Inverted doubling	2.4 to 5.5	-2*Vin	10	12	185	140	92% at 2.5 mA	-	8-pin SOIC and 8-pin PDIP		
TC1240A	Doubling	2.5 to 5	2*Vin	20	80	550	12	94% at 5 mA	Shutdown	6-pin SOT-23		
TC7660S/H	Inverting or doubling	1.5 to 12	-Vin or 2* Vin	20	10, 45, or 120	80 or 1000	55 or 60	98% at 1 mA, 85% at 10mA	Boost pin increases switching frequency, high-voltage oscillator	8-pin SOIC and 8-pin PDIP		
TC7662A/B	Inverting or doubling	1.5 to 15	-Vin or 2* Vin	20 or 40	10, 12 or 35	80 or 190	50 or 65	96% at 1 mA, 97% at 7.5mA	Boost pin increases switching frequency, no low-voltage terminal required	8-pin SOIC and 8-pin PDIP		
TC962	Inverting or doubling	3 to 18	-Vin or 2* Vin	80	12 or 24	190	35	97% at 7.5 mA	Boost pin increases switching frequency	16-pin SOIC, 8-pin PDIP		
Regulated Charge Pumps												
MCP1256/7/8/9	Regulated	1.8 to 3.6	3.3	100	650	2300	N/A	85% at 50 mA	Soft start, shutdown, low battery warning signal, power good signal and sleep mode, bypass mode	10-pin MSOP and 10-pin 3 x 3 DFN		
MCP1252/3	Regulated	2.0 to 5.5	3.3, 5.0, or adjustable	150	650, 1000	60	N/A	81% at 10 mA	Shutdown, power good, regulated output, adjustable version	8-pin MSOP		
POWER MANAGEMENT: CPU/System Supervisors												
Product	Type	Watchdog Timer	Manual Reset	Power Fail	Operating Temperature Range (°C)	Vcc Range (V)	Nominal Reset Voltage (V)	Reset Type	Output	Typical Reset Pulse Width (ms)	Typical Supply Current (μ A)	Packages
MCP111/112, TC54	Voltage Detector (No Reset Delay)	No	No	No	-40 to +125	1.0-5.5	Various	Active Low	Open-Drain or Push-Pull	0	1	3-pin SC-70, 3-pin SOT-89, 3-pin SOT-23, 3-pin TO-92
MCP10X, MCP13XX, MIC(7/8)XX, MIC27(7X/8X)	Supervisor (Reset Delay)	Optional	Optional	Optional	-40 to +85 and -40 to +125	1.0-5.5	Various	Active Low or Active High	Open-Drain or Push-Pull	Various	Various	Various 3-Lead up to 8-Lead packages
MIC277(2/4/7)	Dual	No	Yes	No	-40 to +85	1.0-5.5	Various	Active Low or Active High	Open-Drain or Push-Pull	20, 140, 1100	3.5, 10	2 x 2, 5-pin SOT23
MIC27(82/90/91/93)	Push Button	No	Yes	No	-40 to +125	1.0-5.5	Various	Active Low/High or High/Low	Dual Output Open-Drain and/or Push-Pull	1.05, 500, 1000, 2000	2.2, 40	0.8 x 1.2 CSP, 5-pin TSOT23, 2 x 2, 1.6 x 1.6, 2 x 2
POWER MANAGEMENT: Power MOSFET Drivers												
Product	Drivers	Configuration			Peak Output Current (source/sink, A)	Max Supply Voltage (V)	Output Resistance (source/sink, Ω)	Propagation Delay (To1/To2, ns)	Rise/Fall Time (Tr, Tf, ns)	Packages		
Low Side Power MOSFET Drivers												
MCP14A0051/2	Single	Inverting/Non-inverting			0.5/0.5	18	6.5/4.5	40/31	51/39	6-pin SOT-23, 6-pin 2 x 2 DFN		
MIC4416/7	Single	Non-Inverting/Inverting/Complementary			1.2/1.2	18	3.5/3.5	42/42	3.5/3.5	SOT-143		
TC1426/7/8	Dual	Inverting/Non-inverting			1.2/1.2	16	12/8	75/75	25/35	8-pin SOIC, 8-pin PDIP		
MIC4467/8/9	Quad	Inverting/Non-inverting/Complementary			1.2/1.2	18	5/5	35/55	5/5	16-pin WSOIC, 14-pin PDIP		
MCP14A0151/2	Single	Inverting/Non-Inverting			1.5/1.5	18	17/10	41/32	18.5/17	6-pin SOT-23, 6-pin 2 x 2 DFN		
MCP14A0153/4/5	Dual	Inverting/Non-inverting/Complementary			1.5/1.5	18	4.5/3	32/24	11/10	8-pin SOIC, 8-pin MSOP, 8-pin 2 x 3 DFN		
MCP14E6/7/8	Dual	Inverting/Non-inverting/Complementary			2.0/2.0	18	5/5	45/45	12/15	8-pin SOIC, 8-pin PDIP, 8-pin 6 x 5 DFN		
TC1412/2N	Single	Inverting/Non-Inverting			2.0/2.0	16	4/4	35/35	18/18	8-pin SOIC, 8-pin MSOP, 8-pin PDIP		
MIC4478/9/80	Dual	Non-Inverting/Inverting/Complementary			2.5/2.5	32	6/3	160/70	120/45	8-pin SOIC, 8-pin ePAD SOIC		
MCP14E9/10/11	Dual	Inverting/Non-inverting/Complementary			3.0/3.0	18	4/4	45/45	14/17	8-pin SOIC, 8-pin PDIP, 8-pin 6 x 5 DFN		
TC1413N	Single	Non-inverting			3.0/3.0	16	2.7/2.7	35/35	20/20	8-pin SOIC, 8-pin MSOP, 8-pin PDIP		
MAQ4123/4/5	Dual	Inverting/Non-inverting/Complementary			3.0/3.0	20	5/5	40/60	11/11	8-pin ePAD SOIC		
MIC4123/4/5	Dual	Inverting/Non-inverting/Complementary			3.0/3.0	20	5/5	44/59	11/11	8-pin ePAD SOIC		
MIC4423/4/5	Dual	Inverting/Non-inverting/Complementary			3.0/3.0	18	5/5	33/38	23/25	8-pin SOIC, 8-pin WSOIC, 16-pin PDIP		
MCP14E3/4/5	Dual	Inverting/Non-inverting/Complementary			4.0/4.0	18	2.5/2.5	46/50	15/18	8-pin SOIC, 8-pin PDIP, 8-pin 6 x 5 DFN		
MIC4120/29	Single	Non-Inverting/Inverting			6.0/6.0	20	5/5	45/50	12/13	8-pin ePAD SOIC, 8-pin 3 x 3 MLP®		
MIC4421A/22A	Single	Inverting/Non-Inverting			9.0 / 9.0	18	0.8/0.6	15/35	20/24	8-pin PDIP, 8-pin SOIC, 5-pin TO-220		
MIC4451/2	Single	Inverting/Non-Inverting			12.0/12.0	18	0.8/0.6	25/40	20/24	8-pin SOIC, 8-pin PDIP, 5-pin TO-220		
High Side Power MOSFET Drivers												
TC4431/2	High-Side Single	Inverting/Non-Inverting			3.0/1.5	30	7/7	62/78	25/33	8-pin SOIC, 8-pin PDIP		
TC4403	Floating Load Driver	Non-inverting			1.5/1.5	18	2.8/3.5	33/38	23/25	8-pin PDIP		
MIC5011/13	High-Side or Low-Side Single	Non-Inverting			950 μ A*/225 μ A*	32	N/A	N/A	25 μ s/4 μ s	8-pin SOIC, 8-pin PDIP		
MIC5014/15	High-Side or Low-Side Single	Non-Inverting/Inverting			800 μ A*	30	N/A	N/A	90 μ s/6 μ s	8-pin SOIC, 8-pin PDIP		
MIC5018/19	High-Side or Low-Side Single	Non-Inverting			10 μ A*	9	N/A	N/A	750 μ s/10 μ s	4-pin SOT-143		
MIC5021	High-Side or Low-Side Single	Non-Inverting			5600 μ A*	36	N/A	500/800	400 ns/400 ns	8-pin SOIC, 8-pin PDIP		
MIC5060	High-Side or Low-Side Single	Non-Inverting			800 μ A*	30	N/A	N/A	90 μ s/6 μ s	8-pin 3 x 3 MLP®		

POWER MANAGEMENT: Power MOSFET Drivers								
Product	Drivers	Configuration	Peak Output Current (source/sink, A)	Max Supply Voltage (V)	Output Resistance (source/sink, Ω)	Propagation Delay (To1/To2, ns)	Rise/Fall Time (Tr, Tf, ns)	Packages
Synchronous Drivers								
MCP14628/MCP14700	Half Bridge Driver	Dual Inputs	2.0/3.5	5.5 (36V Boot Pin)	1/1 (0.5 on low side)	15/22	10/10	8-pin SOIC, 8-pin 3 x 3 DFN
MIC4100/1	Half Bridge Driver	Dual Inputs	2.0/2.0	16 (100V Boot Pin)	2.5/2.0	27/27	10/10	8-pin SOIC
MIC4102	Half Bridge Driver	Single PWM	3.0/2.0	16 (100V Boot Pin)	1.5/2.0	60/75	10/6	8-pin SOIC
MIC4103/4	Half Bridge Driver	Dual Inputs	3.0/2.0	16 (100V Boot Pin)	1.5/2.0	24/24	10/6	8-pin SOIC
MIC4600	Half Bridge Driver	Dual Inputs, Single PWM	1.0/1.0	28V	2.0/1.5	26/55	15/13.5	16-pin 3 x 3 QFN
MIC4604	Half Bridge Driver	Dual Inputs	1.0/1.0	16V (85V Boot Pin)	4.4/4.0	33/34	20/20	8-pin SOIC, 10-pin 2.5 x 2.5 TDFN
MIC4605	Half Bridge Driver	Dual Inputs, Single PWM	1.0/1.0	16V (85V Boot Pin)	10/6	35/35	20/20	8-pin SOIC, 10-pin 2.5 x 2.5 TDFN
MIC4606	Full Bridge Driver	Dual Inputs, Single PWM	1.0/1.0	16V (85V Boot Pin)	10/6	35/35	20/20	16-pin 4 x 4 QFN
MIC4607	3 Phase Driver	Dual Inputs, Single PWM	1.0/1.0	16V (85V Boot Pin)	10/6	35/35	20/20	28-pin TSSOP, 28-pin 4 x 5 QFN
MIC4608	Half Bridge Driver	Dual Inputs, Single PWM	1.0/1.0	20V (600V Boot Pin)	8/9.2	450/450	31/31	14-pin SOIC

*Charge pump current

POWER MANAGEMENT: Power MOSFETs											
Product	Vds (V)	Configuration	Polarity	Rds (on) @ 4.5V (mΩ, Max.)	Rds (on) @ 10V (mΩ, Max.)	Qg @ 4.5V (nC, Max.)	Id (A, Max. @ 25°C, Tcase)	Vgs (th) (V, Min.)	Qgd (nC, Typ.)	Rg (Ω Typ.)	Package
MCP87018	25	Single	N-Channel	2.2	1.9	37	100	1	13	1.5	5 x 6 PDFN
MCP87022	25	Single	N-Channel	2.6	2.3	29	100	1	9	1.3	5 x 6 PDFN
MCP87030	25	Single	N-Channel	4	3.5	22	100	1	6.7	1.2	5 x 6 PDFN
MCP87050	25	Single	N-Channel	6	5	15	100	1	4.7	1.1	5 x 6 PDFN
MCP87055	25	Single	N-Channel	7	6	14	60	1	4.5	2.1	3.3 x 3.3 PDFN
MCP87090	25	Single	N-Channel	12	10.5	10	64	1.1	2.8	1.8	5 x 6 PDFN, 3.3 x 3.3 PDFN
MCP87130	25	Single	N-Channel	16.5	13.5	8	54	1.1	2.6	1.7	5 x 6 PDFN, 3.3 x 3.3 PDFN

POWER MANAGEMENT: Battery Chargers											
Product	Mode	Cell Type	# of Cells	Vcc Range (V)	Cell Voltage (V)	Max. Charging Current (mA)	Max. Voltage Regulation (%)	Int/Ext FET	Features		Packages
MCP73113/14/23	Linear	Li-ion/Li-Polymer and LiFePO4	1	4 to 16	3.6, 4.1, 4.2, 4.35, 4.4	1100	±0.5	Int	6.5/5.8V overvoltage protection, UVLO, thermal regulation		10-pin 3 x 3 DFN
MCP73213/23	Linear	Li-ion/Li-Polymer and LiFePO4	2	4 to 16	7.2, 8.2, 8.4, 8.7, 8.8	1100	±0.6	Int	13V overvoltage protection		10-pin 3 x 3 DFN
MCP73830/L	Linear	Li-ion/Li-Polymer	1	3.75 to 6	4.2	1000/200	±0.75	Int	Soft-start, charge enable pin		6-pin 2 x 2 TDFN
MCP73831/2	Linear	Li-ion/Li-Polymer	1	3.7 to 6.0	4.2, 4.35, 4.4, 4.5	500	±0.75	Int	UVLO, thermal regulation, programmable charge current, tri-state or open-drain STAT pin		8-pin 2 x 3 DFN, 5-pin SOT-23
MCP73837/8	Linear	Li-ion/Li-Polymer	1	3.7 to 6.0	4.2, 4.35, 4.4, 4.5	1000	±0.75	Int	Dual input (USB/DC) auto-switching, thermistor input, power good output or timer enable input		10-pin MSOP, 10-pin 3 x 3 DFN
MCP73871	Linear	Li-ion/Li-Polymer	1	3.75 to 6.0	4.1, 4.2, 4.35, 4.4	1500 (A/C Adapter) 500 (USB)	±0.5	Int	Simultaneous charging of load and battery, load-dependent charging, multiple programmable charge currents		20-pin 4 x 4 QFN

POWER MANAGEMENT: Power Switches													
Part #	Description			USB Port Power Switch (55 mΩ)	High-Speed USB 2.0 Switch	Battery Charger Emulation Profiles	8 Resistor Set Current Limits	Charging Indicator Output	Attach Detection Output	Current Measurement	Power Allocation	Interface	Packages
USB Port Power Controllers													
UCS1001-1	USB Port Power Controller with Charger Emulation			1	1	9	Up to 2.4A	✓	-	-	-	Discrete I/O	20-pin 4 x 4 QFN
UCS1001-2	USB Port Power Controller with Charger Emulation			1	1	9	Up to 2.4A	-	✓	-	-	Discrete I/O	20-pin 4 x 4 QFN
UCS1001-3	USB Port Power Controller with Charger Emulation			1	1	9	Up to 2.4A	✓	-	-	-	Discrete I/O	20-pin 4 x 4 QFN
UCS1001-4	USB Port Power Controller with Charger Emulation			1	1	9	Up to 2.4A	-	✓	-	-	Discrete I/O	20-pin 4 x 4 QFN
UCS1002-1	Programmable USB Port Power Controller with Charger Emulation			1	1	9 + 1 programmable	Up to 2.4A	✓	-	✓	✓	I ^C /SMBus	20-pin 4 x 4 QFN
UCS1002-2	Programmable USB Port Power Controller with Charger Emulation			1	1	9 + 1 programmable	Up to 2.4A	✓	-	✓	✓	I ^C /SMBus	20-pin 4 x 4 QFN
UCS1003-1	Programmable USB Port Power Controller with Charger Emulation			1	1	9 + 1 programmable	Up to 3A	-	✓	✓	✓	I ^C /SMBus	20-pin 4 x 4 QFN
UCS1003-2	Programmable USB Port Power Controller with Charger Emulation			1	1	9	Up to 3A	✓	-	-	-	Discrete I/O	20-pin 4 x 4 QFN
UCS1003-3	Programmable USB Port Power Controller with Charger Emulation			1	1	9	Up to 3A	-	✓	-	-	Discrete I/O	20-pin 4 x 4 QFN
UCS81003	Programmable USB Port Power Controller Automotive			1	1	9 + 1 programmable	Up to 3A	✓	✓	✓	✓	I ^C /SMBus	28-pin 5 x 5 QFN

Part #	Channels	V _{IN} Range (V)	Fixed Current Limit Min.	Adj. Current Limit Max.	R _{DS(on)} (mΩ)	Reverse Blocking	Enable Logic	UVLO	Thermal Protection	Fault Flag	Current Measurement	Packages
Current Limit USB Protection Switches												
MIC200x/201x	Single	2.5–5.5	500 mA, 800 mA, 1.2A	Up to 2A	70/100/170	–	Active Low, Active High	✓	✓	–/✓	–	5-pin SOT23, 6-pin SOT23, 2 × 2
MIC2025/75	Single	2.7–5.5	500 mA	–	140	✓	Active Low, Active High	✓	✓	✓	–	8-pin SOIC, 8-pin MSOP
MIC2033	Single	2.5 – 5.5	475 mA, 517 mA, 760 mA, 950 mA, 1.14A	–	125	–	Active Low, Active High	✓	✓	✓	–	6-pin SOT-23, 6-pin DFN*
MIC2039	Single	2.5–5.5	–	2.5A	75	–	Active Low, Active High	✓	✓	✓	–	6-pin SOT-23, 2 × 2*
MIC2040/1	Single	0.8–5.5	–	1.5A	75	✓	Active Low, Active High	✓	✓	✓	–	10-pin MSOP
MIC2042/43	Single	0.8–5.5	–	3.0A	60	✓	Active Low, Active High	✓	✓	✓	–	8-pin SOIC, 14-pin TSSOP
MIC2044/45	Single	0.8–5.5	–	6.0A	30	✓	Active Low, Active High	✓	✓	✓	–	16-pin TSSOP
MIC2095/98	Single	2.5–5.5	500 mA/900 mA	–	170	✓	Active Low, Active High	✓	✓	✓	–	1.6 × 1.6*
MIC2097/99	Single	2.5–5.5	–	1.1A	170	✓	Active Low, Active High	✓	✓	✓	–	1.6 × 1.6*
MIC2505	Single	2.7–7.5	2.0A	–	30	✓	Active Low, Active High	–	✓	✓	–	8-pin SOIC, 8-pin PDIP
MIC2544/48	Single	2.7–5.5	–	1.5A	80	✓	Active Low, Active High	–	✓	✓	–	8-pin SOIC, 8-pin MSOP
MIC2545A/49A	Single	2.7–5.5	–	3.0A	35	✓	Active Low, Active High	–	✓	✓	–	8-pin SOIC, 8-pin PDIP, 14-pin TSSOP
MIC2026/76	Dual	2.7–5.5	500 mA	–	90	✓	Active Low, Active High	✓	✓	✓	–	8-pin SOIC, 8-pin PDIP
MIC2506	Dual	2.7–7.5	1.0A	–	75	✓	Active Low, Active High	–	✓	✓	–	8-pin SOIC, 8-pin PDIP
MIC2546/47	Dual	2.7–5.5	–	1.5A	80	✓	Active Low, Active High	–	✓	✓	–	16-pin SOIC, 16-pin TSSOP
UCS2112	Dual	2.9–5.5	–	3.4A	40	✓	Active Low, Active High	✓	✓	✓	✓	20-pin 4 × 4 QFN

*Reduced Height Package

Part #	Channels	V _{IN} Range (V)	Max. Switch Current	R _{DS(on)} (mΩ)	Soft Start (μs)	Load Discharge (Ω)	Enable Logic	Reverse Blocking	Packages
MIC94030/1	Single	2.7–13.5	1.0	750	–	–	Active Low	✓	4-pin SOT143
MIC94040/1/2/3/4/5	Single	1.7–5.5	3.0	28	100(94042), 900(94044/5)	250(94041/3), 200(94045)	Active High	–	1.2 × 1.2
MIC94050/1	Single	1.8–5.5	1.8	125	–	–	Active Low	✓	4-pin SOT143
MIC94052/3	Single	1.8–5.5	2.0	70	–	–	Active Low	–	6-pin SC70
MIC94060/1/2/3/4/5	Single	1.7–5.5	2.0	77	800(94062/3), 115(94064/5)	200(94061/3/5)	Active High	–	6-pin SC70, 1.2 × 1.6*
MIC94070/1/2/3	Single	1.7–5.5	1.2	120	800(94072/3)	200(94071/3)	Active High	–	6-pin SC70, 1.2 × 1.6*
MIC94080/1/2/3/4/5	Single	1.7–5.5	2.0	67	800(94082/3), 120(94084/5)	250(94081/3/5)	Active High	–	0.85 × 0.85*
MIC94090/1/2/3/4/5	Single	1.7–5.5	1.2	130	790(94092/3), 120(94094/5)	250(94091/3/5)	Active High	–	6-pin SC70, 1.2 × 1.2*
MIC94161/2/3/4/5	Single	1.7–5.5	3.0	15.5	2700(94161/4/5), 60(94162/3)	200(94162/4)	Active High	✓	1.5 × 1 WLCSP
MIC95410	Single	0.5–5.5	7.0	6.6	1100	2300	Active High	–	1.2 × 2
MIC94066/7/8/9	Dual	1.7–5.5	2	85	800(94068/9)	200(94067/9)	Active High	–	2 × 2

*Reduced Height Package

Part #	+V _{IN} Min (V)	+V _{IN} Max (V)	Output Voltage (V)	Max Output Current (mA)	Typical Line Regulation (%/V)	Typical Load Regulation (%/mA)	Packages
LR8	12	450	1.2–440	10	0.003	0.15	3-Lead TO-252, 3-Lead TO-92, 3-Lead SOT-89
LR12	12	100	1.2–88	50	0.003	0.06	3-Lead TO-252, 8-Lead SOIC, 3-Lead TO-92
LR645	15	450	10	3.0	0.0001	0.5	8-Lead SOIC, 3-Lead TO-92, 3-Lead TO-220, 3-Lead SOT-89
LR745	25	450	20	2.0	0.0001	0.5	3-Lead TO-92, 3-Lead SOT-89

Part #	HVR (V _{IN})	Max Duty Cycle	Accuracy (V _{REF})	Packages
HV9120	10 to 450V	49%	2%	16-pin SOIC, 16-pin DIP, 20-pin PLCC
HV9123	10 to 450V	99%	2%	16-pin SOIC, 16-pin DIP, 20-pin PLCC

DISPLAY AND LED DRIVERS: Electroluminescent Backlight Drivers									
Part #	Type	Input Voltage Min. (V)	Input Voltage Max. (V)	Nominal Output Voltage (V)	Max. Switch Resistance (Ω)	Output Regulation	Max. Lamp Size per Device (in 2)	Packages	
16-Segment Drivers									
HV509	16-Segment Drivers	2	5.5	$\pm 50 \text{ to } \pm 200$	-	-	6.5	32-pin VQFN	
Offline Driver									
HV809	Offline Driver	50	200	$\pm 50 \text{ to } \pm 200$	-	-	100	8-pin SOIC, 8-pin SOIC 150 mil	
Single Lamp Drivers									
HV816	Single Lamp Driver	2.7	5.5	± 180	-	✓	42	16-pin QFN	
HV823	Single Lamp Driver	2	9.5	± 90	6	✓	23	8-pin SOIC 150 mil	
HV833	Single Lamp Driver	1.8	6.5	± 90	4	✓	12	8-pin MSOP	
HV850	Single Inductorless Lamp Driver	3	4.2	± 70	-	✓	1.5	8-pin MSOP	
HV852	Single Inductorless Lamp Driver	2.4	5	± 80	-	✓	1.5	10-pin WDFN, 8-pin MSOP	
HV857L	Single Lamp Driver	1.8	5	± 95	6	✓	5	8-pin WDFN, 8-pin MSOP	
HV859	Single Lamp Driver	1.8	5	± 105	6	✓	5	8-pin WDFN, 8-pin MSOP	
Dual Lamp Drivers									
HV861	Dual Lamp Drivers	2.5	4.5	± 90	7	✓	5	16-pin WQFN	
MIC4833	Dual Lamp Drivers	2.3	5.8	± 110	12	✓	4	12-pin VDFN	

DISPLAY AND LED DRIVERS: LED Drivers											
Part #	Topology	Input Voltage (V)	Dimming	I _Q Typ. (mA)	Switching Frequency (Hz)	Switching MOSFET	Dithered	ILED Accuracy	V _{FB} (V)	Packages	
General Purpose LED Drivers											
HV9801A	Buck	15–450	4-Level Switch	1.0	100K	External FET	-	N/A	0.25	16-pin SOIC 150 mil, 8-pin SOIC 150 mil	
HV9803B	Buck	7–13.2	PWM/Linear	1.5	100K	External FET	-	$\pm 2\%$	0.28	8-pin SOIC 150 mil	
HV9805	2-Stage	102–265	-	2.5	370K	0.7A FET	-	N/A	1.25	10-pin MSOP	
HV9861A	Buck	15–450	PWM/Linear	1.5	100K	External FET	-	$\pm 3\%$	0.27	16-pin SOIC 150 mil, 8-pin SOIC 150 mil	
HV9910B	Buck	8–450	PWM/Linear	1.0	100K	External FET	-	$\pm 5\%$	0.25	16-pin SOIC 150 mil, 8-pin SOIC 150 mil	
HV9918	Buck	4.5–40	PWM	1.5	2M	0.7A FET	-	$\pm 5\%$	0.23	8-pin WDFN	
HV9930	Cuk	8–200	PWM	1.0	Variable	External FET	-	N/A	0.12	8-pin SOIC 150 mil	
MIC3202	Buck	6–37	PWM	1.2	Hyst to 1.0M	1A FET	✓	$\pm 5\%$	2	8-pin SOIC	
Linear Regulators											
Part #	V _{IN} (V)	V _{OUT} (V)	Ouput Current (mA)	Dimming	Parallelable	Packages			Features		
CL2	5.0–90	5.0–90	20	External FET	Yes	TO-252-3, TO-92-3, SOT-89-3			-		
CL220	5.0–220	5.0–220	20	External FET	Yes	TO-252-3, TO-220-3			-		
CL320	6.5–90	4.0–90	20	PWM	Yes	SOIC-8 with Heat Slug			OTP, separate ENABLE pin		

Backlight LED Drivers									
Part #	Topology	Input Voltage (V)	Dimming	I _Q Typ. (mA)	Output Current	Int Diode	V _{FB} (V)	Frequency (Hz)	Packages
HV9911	Boost, SEPIC, Buck-Boost	9–250	PWM/Linear	n/a	External FET	-	0.45	100k	16-pin SOIC 150 mil
MIC2289	Boost	2.5–10	PWM/Linear	2.5	2A BJT	✓	0.095	1.2M	6-pin TSOT, 8-pin VDFN
MIC2292	Boost	2.5–10	PWM/Linear	2.5	2A BJT	✓	0.095	1.6M	8-pin VDFN
MIC2293	Boost	2.5–10	PWM/Linear	2.5	2A BJT	✓	0.095	2.0M	8-pin VDFN
MIC2297	Boost	2.5–10	PWM/Linear	4	3A BJT	-	0.2	600k	10-pin VDFN
MIC2299	Boost	2.5–10	PWM/Linear	15	8A BJT	-	0.2	2.0M	12-pin VDFN
MIC3223	Boost	4.5–20	PWM	2.1	10A FET	-	0.2	1.0M	16-pin TSSOP
MIC3263	Boost	6–40	PWM	6.5	2A BJT	-	2.36	400k–1.8M	24-pin QFN

DISPLAY AND LED DRIVERS: LED Drivers

Part #	Vin (V)	# of White LEDs	Dimming	I _Q (mA)	V _{DROPOUTLED} @ 20 mA	ILED Matching	Ext LDOs	V _{DROPOUT}	IQLDO	Comments	Packages
Linear LED Drivers											
MIC2860-2D	3.5.5	2 @ 30.2 mA	1-Wire, 32-Steps	0.7	52 mV	±0.5%	-	-	-		6-pin SC70, 6-pin SOT-23
MIC2860-2P	3.5.5	2 @ 30.2 mA	PWM down to 250 Hz	0.7	52 mV	±0.5%	-	-	-		6-pin SC70, 6-pin SOT-23
MIC4811	3.5.5	6 @ 50 mA	PWM (200 Hz–500 kHz)	1.7	100 mV @ 50 mA	±1.0%	-	-	-	DAM™	10-pin MSOP
MIC4812	3.5.5	6 @ 100 mA	PWM (200 Hz–500 kHz)	3.2	190 mV @ 100 mA	±1.0%	-	-	-	DAM™	10-pin eMSOP

Sequential Linear LED Drivers

Part #	Vin (VAC)	Vout (V)	Ouput Current (peak mA)	Dimming	Parallelable	Packages	Features
CL8800	90-275	70-350	115	External Dimmer	Yes	QFN-33	6-Stage
CL8801	90-275	70-350	200	External Dimmer	Yes	QFN-33	4-Stage

Camera Flash LED Drivers

Part #	Vin (V)	# of LED Channels	Max. LED Current (mA)	Standby Current (mA)	Switching Frequency (MHz)	Peak Efficiency (%)	Current Accuracy (%)	Interface	Packages
MIC2873	2.7-5.5	1	1200	0.17	2	92	±8	Single-Wire	9-pin 1.3 x 1.3 WLCSP
MIC2874	2.7-5.5	1	1200	0.17	4	92	±8	Single-Wire	9-pin 1.3 x 1.3 WLCSP

HIGH-VOLTAGE INTERFACE: Driver Arrays

Part #	Output Channels	V _{out} Operating (V) - Transient	V _{out} Operating (V) - Sustained	Input Structure	Output Structure	I _{our} per Channel (mA)	Min. Data Clock (MHz)	Packages
Source								
HV57009	64	95	85	Serial	P-Ch Open Drain	-2 (Programmable)	16	80-pin PQFP
MIC2981/82	8	50	50	Parallel	Darlington Open Emitter	-500	-	18-pin PDIP, 18-pin SOIC 300 mil
MIC5891	8	35	35	Serial	Darlington Open Emitter	-500	5	16-pin PDIP, 16-pin SOIC 300 mil
Sink								
HV5222	32	250	225	Serial	N-Ch Open Drain	100	8	44-pin CERQUAD, 44-pin PLCC, 44-pin PQFP
HV5523	32	230	220	Serial	N-Ch Open Drain	100	16	44-pin WQFN
HV5623	32	250	220	Serial	N-Ch Open Drain	100	16	44-pin WQFN
HV5630	32	315	300	Serial	N-Ch Open Drain	100	8	44-pin PLCC
MIC5800	4	50	50	Parallel	Darlington Open Collector	400	-	14-pin PDIP, 14-pin SOIC 150 mil
MIC58P01	8	80	80	Parallel	Darlington Open Collector	400	-	24-pin SOIC 300 mil, 28-pin PLCC
MIC59P60	8	80	50	Serial	Darlington Open Collector	400	3.3	20-pin PDIP, 20-pin SOIC 300 mil
Source-Sink								
HV507	64	320	300	Serial	Half-Bridge	±1.0	8	80-pin PQFP
HV508	2	60	45	Parallel	Half-Bridge	-2.8, +0.38	-	8-pin SOIC 150 mil
HV513	8	275	250	Serial	Half-Bridge	±20	8	24-pin SOIC 300mil, 32-pin WQFN
HV518	32	90	80	Serial	Half-Bridge	-12.5	6	40-pin PDIP, 44-pin PLCC
HV57908	64	90	80	Serial	Half-Bridge	-1.25	8	80-pin PQFP
HV5812	20	90	80	Serial	Half-Bridge	-12.5	5	28-pin PDIP, 28-pin PLCC, 28-pin SOIC 300 mil
HV582	96	85	80	Serial	Half-Bridge	± 75	30	169-pin TFBGA
HV583	128	90	80	Serial	Half-Bridge	±30	40	169-pin TFBGA
HV6810	10	90	80	Serial	Half-Bridge	-250	5	20-pin SOIC 300 mil
HV7224	40	260	240	Serial	Half-Bridge	±70	3	64-pin PQFP
HV7620	32	225	200	Serial	Half-Bridge	±50	10	64-pin PQFP
HV9308	32	90	80	Serial	Half-Bridge	-4	8	44-pin PLCC, 44-pin PQFP

HIGH-VOLTAGE INTERFACE: Amplifiers and MEMS Drivers

Part #	Output Channels	Slew Rate (V/μs)	Closed Loop Gain (V/V)	Feedback Resistance (MΩ)	Source Current Max. (μA)	Sink Current Max. (μA)	Output Capacitive Load Max. (pF)	Packages
HV254	32	3	50	12	300	300	100	100-pin MQFP
HV256	32	2	72	12	715	715	3000	100-pin MQFP
HV257	32	2	72	12	500	500	3000	100-pin MQFP
HV264	4	9	66.7	5.3	3000	3000	15	24-pin TSSOP

HIGH-VOLTAGE INTERFACE: MOSFETs - Interface

Part #	BV _{DSX} Min. (V)	R _{DS(on)} Max. (Ω)	V _{G(S)OFF} Min. (V)	V _{G(S)OFF} Max. (V)	Packages
Depletion-Mode N-Channel					
LND01	9	1.4	-0.8	-3	5-pin SOT-23
DN1509	90	6	-1.8	-3.5	3-pin SOT-89, 5-pin SOT-23
DN2625	250	3.5	-1.5	-2.1	8-pin VDFN, 3-pin DPAK
DN2530	300	12	-1	-3.5	3-pin TO-92, 3-pin SOT-89
DN2535	350	25	-1.5	-3.5	3-pin TO-92, 3-pin TO-220
DN2540	400	25	-1.5	-3.5	3-pin TO-92, 3-pin SOT-89, 3-pin TO-220
DN3545	450	20	-1.5	-3.5	3-pin TO-92, 3-pin SOT-89
DN2450	500	10	-1.5	-3.5	3-pin DPAK, 3-pin SOT-89
LND150	500	1000	-1	-3	3-pin TO-92, 3-pin SOT-89, 3-pin SOT-23
DN3765	650	8	-1.5	-3.5	3-pin DPAK
DN2470	700	42	-1.5	-3.5	3-pin DPAK

Enhancement-Mode N-Channel

Part #	BVoss Min. (V)	Rds(on) Max. (Ω)	Ciss Max. (pF)	Vgs(th) Max. (V)	Packages
TN0702	20	1.3	200	1.0	3-pin TO-92
VN0300	30	1.2	190	2.5	3-pin TO-92
TN0104	40	2.0	70	1.6	3-pin TO-92, 3-pin SOT-89
VN3205	50	0.3	300	2.4	3-pin TO-92, 3-pin SOT-89
TN2106	60	2.5	50	2.0	3-pin TO-92, 3-pin SOT-23
2N6660	60	3.0	50	2.0	3-pin TO-39
2N7000	60	5.0	60	3.0	3-pin TO-92
VN0808	80	4.0	50	2.0	3-pin TO-92
VN2210	100	0.4	500	2.4	3-pin TO-92, 3-pin TO-39
TN0620	200	6.0	150	1.6	3-pin TO-92
TN5325	250	7.0	110	2.0	3-pin TO-92, 3-pin SOT-89, 3-pin SOT-23
TN2130	300	25.0	50	2.4	3-pin SOT-23
TN2435	350	6.0	200	0.8 (min)	3-pin SOT-89
TN2640	400	5.0	225	2.0	3-pin DPAK, 3-pin TO-92, 8-pin SOIC 150mil
VN2450	500	13.0	150	4.0	3-pin TO-92, 3-pin SOT-89
VN2460	600	20.0	150	4.0	3-pin TO-92, 3-pin SOT-89

Enhancement-Mode P-Channe

TP2502	-20	2.0	125	-2.4	3-pin SOT-89
TP0604	-40	2.0	150	-2.4	3-pin TO-92
VP2206	-60	0.9	450	-3.5	3-pin TO-92, 3-pin TO-39
VP0808	-80	5.0	150	-4.5	3-pin TO-92
TP2510	-100	3.5	125	-2.4	3-pin SOT-89
TP2520	-200	12.0	125	-2.0	3-pin SOT-89
TP2424	-240	8.0	200	-2.4	3-pin SOT-89
TP2435	-350	15.0	200	-2.4	3-pin SOT-89
TP5335	-350	30.0	110	-2.4	3-pin SOT-23
TP2640	-400	15.0	300	-2.0	3-pin TO-92, 8-pin SOIC 150 mil
VP2450	-500	30.0	190	-3.5	3-pin TO-92, 3-pin SOT-89

N-Channel (Enhancement-Mode MOSFET Arrays)

TD9944 240 6 65 2 8-pin SOIC

Complimentary (Enhancement-Mode MOSFET Arrays)

Part #	BV _{DS} N-Channel (V)	BV _{DS} P-Channel (V)	R _{DS(on)} N-Channel Max. (Ω)	R _{DS(on)} P-Channel Max. (Ω)	V _{G(S)} (TH) Max. (V)	Details	Packages
TC6320	200	-200	7.0	8.0	2.0	N- and P-Channel Pair	8-pin SOIC, 8-pin VDFN
TC8020	200	-200	8.0	9.5	3.0	6 N- and P-Channel Pairs	56-pin VQFN
TC8220	200	-200	5.3	6.5	2.0	2 N- and P-Channel Pairs	12-pin VDFN

HIGH-VOLTAGE INTERFACE: Applications Specific

Part #	DC/DC	Input Voltage Min. (V)	Input Voltage Max. (V)	Output Voltage Min. (VRMS)	Output Voltage Max. (VRMS)	Load Min. (pF)	Load Max. (pF)	Packages
Liquid Lens Driver								
HV892	Internal Charge Pump	2.65	5.5	10	60	100	200	10-pin WDFN

Complementary MOSFET Level Translator and Driver

Part #	# of Channels	Input Voltage Min. (V)	Input Voltage Max. (V)	Output Voltage Min. (V)	Output Voltage Max. (V)	Input to Output Isolation (V)	Packages
HT0440	2	3.15	5.5	6	10	±400	10-pin VDFN, 8-pin SOIC 150 mil
HT0740	1	3.15	5.5	4.5	8.5	±400	8-pin SOIC 150 mil

High-Side Current Mointor

Part #	VIN (V)	Gain	Rise and Fall Time (μs)	VSENSE Max. (mV)	Quiescent Current Max. (μA)	Packages
HV7800	8.0–450	Fixed, 1	0.7–2.0	500	50	5-pin SOT-23
HV7801	8.0–450	Fixed, 5	0.7–2.0	500	50	5-pin SOT-23
HV7802	8.0–450	Adjustable	0.7–1.4	500	50	8-pin MSOP

Fault Protection

Part #	Voltage (V)	# of Channels	RON (Ω)	VOFF (V)	Packages
FP0100	100	1	4.5	4.5	3-pin SOT-89

Relay Driver and Controller

Part #	VIN Min. (V)	VIN Max. (V)	IIN Max. (mA)	Oscillator Frequency Min. (kHz)	Oscillator Frequency Max. (kHz)	Oscillator Frequency FSync Max. (kHz)	Max. Output Duty Cycle (%)	Typical Current Sense Pull-In (V)	Typical Current Sense Hold	External Adjustable Regulator Output Voltage (V)	External Adjustable Regulator Output Current (mA)	Packages
HV9901	10	450	2	20	140	150	99.5	0.883	Adjustable	2.0–5.5	0–1.0	14-pin SOIC

LINEAR: Op Amps

Product	# per Package	GBWP (MHz)	Iq Typical (μA)	Vos Max (mV)	Operating Voltage (V)	Packages
MCP661/2/3/4/5/9	1/2/1/4/2/4	60	6000	8	2.5 to 5.5	SOIC, MSOP, DFN, TSSOP, QFN, SOT
MCP651/1S/2/3/4/5/9	1/1/2/1/4/2/4	50	6000	0.2	2.5 to 5.5	SOIC, MSOP, DFN, TSSOP, QFN, SOT
MCP631/2/3/4/5/9	1/2/1/4/2/4	24	2500	8	2.5 to 5.5	SOIC, MSOP, DFN, TSSOP, QFN, SOT
MCP621/1S/2/3/4/5/9	1/1/2/1/4/2/4	20	2500	0.2	2.5 to 5.5	SOIC, MSOP, DFN, TSSOP, QFN, SOT
MCP6H91/2/4	1/2/4	10	2000	4	3.5 to 12.0	DFN, SOIC, TSSOP
MCP6V91/2/4	1/2/4	10	1100	0.009	2.4 to 5.5	TSSOP, MSOP, TDFN, SOT, SC70
MCP6021/2/3/4	1/2/1/4	10	1000	0.5	2.5 to 5.5	PDIP, SOIC, MSOP, TSSOP, SOT
MCP6291/2/3/4/5	1/2/1/4/2	10	1000	3	2.4 to 6.0	PDIP, SOIC, MSOP, TSSOP, SOT
MCP6491/2/4	1/2/4	7.5	530	1.5	2.4 to 5.5	SOT, SC70, MSOP, TDFN, SOIC, TSSOP
MCP6H81/2/4	1/2/4	5.5	700	4	3.5 to 12.0	DFN, SOIC, TSSOP
MCP6V81/2/4	1/2/4	5	500	0.009	2.2 to 5.5	TSSOP, MSOP, TDFN, SOT, SC70
MCP6281/2/3/4/5	1/2/1/4/2	5	445	3	2.2 to 6.0	PDIP, SOIC, MSOP, TSSOP, SOT
MCP6481/2/4	1/2/4	4	240	1.5	2.2 to 5.5	SOT, SC70, MSOP, TDFN, SOIC, TSSOP
MCP6286	1	3.5	540	1.5	2.2 to 5.5	SOT
MCP601/2/3/4	1/2/1/4	2.8	230	2	2.7 to 6.0	PDIP, SOIC, TSSOP, SOT
MCP6H71/2/4	1/2/4	2.7	480	4	3.5 to 12.0	DFN, SOIC, TSSOP
MCP6271/2/3/4/5	1/2/1/4/2	2	170	3	2.0 to 6.0	PDIP, SOIC, MSOP, TSSOP, SOT
MCP6471/2/4	1/2/4	2	100	1.5	2 to 5.5	SOT, SC70, MSOP, TDFN, SOIC, TSSOP
MCP6V26/7/8	1/2/1	2	620	0.002	2.3 to 5.5	SOIC, MSOP, DFN
MCP6V71/2/4	1/2/4	2	170	0.008	2.0 to 5.5	TSSOP, MSOP, TDFN, SOT, SC70

Product	# per Package	GBWP (MHz)	Iq Typical (μA)	Vos Max (mV)	Operating Voltage (V)	Packages
MCP6V01/2/3	1/2/1	1.3	300	0.002	1.8 to 5.5	SOIC, DFN, TDFN
MCP6V06/7/8	1/2/1	1.3	300	0.003	1.8 to 5.5	SOIC, DFN, TDFN
MCP6071/2/4	1/2/4	1.2	110	0.15	1.8 to 6.0	SOIC, TSSOP, DFN, SOT
MCP6H01/2/4	1/2/4	1.2	135	4.5	3.5 to 16	SOIC, TSSOP, TDFN, SOT, SC70
MCP6001/2/4	1/2/4	1	100	4.5	1.8 to 6.0	PDIP, SOIC, MSOP, TSSOP, TDFN, SOT, SC70
MCP6401/2/4	1/2/4	1	45	4.5	1.8 to 6.0	SOIC, TSSOP, TDFN, SOT, SC70
MCP6V61/2/4	1/2/4	1	80	0.008	1.8 to 5.5	TSSOP, MSOP, TDFN, SOT, SC70
MCP6061/2/4	1/2/4	0.73	60	0.15	1.8 to 6.0	SOIC, TSSOP, DFN, SOT
MCP6241/2/4	1/2/4	0.55	50	5	1.8 to 5.5	PDIP, SOIC, MSOP, TSSOP, TDFN, SOT, SC70
MCP6051/2/4	1/2/4	0.385	30	0.15	1.8 to 6.0	SOIC, TSSOP, DFN, SOT
MCP6V31/2/4	1/2/4	0.3	23	0.008	1.8 to 5.5	TSSOP, MSOP, TDFN, SOT, SC70
MCP6231/2/4	1/2/4	0.3	20	5	1.8 to 6.0	PDIP, SOIC, MSOP, TSSOP, TDFN, SOT, SC70
MCP616/7/8/9	1/2/1/4	0.19	19	0.15	2.3 to 5.5	PDIP, SOIC, MSOP, TSSOP
MCP606/7/8/9	1/2/1/4	0.155	19	0.25	2.5 to 6.0	PDIP, SOIC, TSSOP, SOT
MCP6141/2/3/4	1/2/1/4	0.1	0.6	3	1.4 to 6.0	PDIP, SOIC, MSOP, TSSOP, SOT
MCP6421/2/4	1/2/4	0.09	4.4	1	1.8 to 5.5	SOT, SC70, MSOP, SOIC, TSOP
MCP6V11/2/4	1/2/4	0.08	7.5	0.008	1.6 to 5.5	TSSOP, MSOP, TDFN, SOT, SC70
MCP6041/2/3/4	1/2/1/4	0.014	0.6	3	1.4 to 6.0	PDIP, SOIC, MSOP, TSSOP, SOT
MCP6031/2/3/4	1/2/1/4	0.01	0.9	0.15	1.8 to 5.5	SOIC, MSOP, TSSOP, DFN, SOT
MCP6441/2/4	1/2/4	0.009	0.45	4.5	1.4 to 6.0	SOIC, MSOP, TSSOP, SOT, SC70

LINEAR: Instrumentation Amps											
Product	Bandwidth (kHz)		I _Q Typical (μA)	V _{OS} Max (μV)	Operating Voltage (V)		Features	Packages			
MCP6N11	500		800	350	1.8 to 5.5		Rail-to-rail input/output, enable pin, mCal technology	SOIC, TDFN			
MCP6N16	500		1100	17	1.8 to 5.5		Rail-to-rail input/output, enable pin, enhanced EMI rejection	MSOP, DFN			
LINEAR: Comparators											
Product	# Per Package	Typical Propagation Delay (μs)	I _Q Typical (μA)	V _{OS} Max (mV)	Operating Voltage (V)	Temperature Range (°C)	Features	Packages			
MCP6541/2/3/4	1/2/1/4	4	1	5	1.6 to 5.5	-40 to +125	Push-Pull, Rail-to-Rail Input/Output	PDIP, SOIC, MSOP, TSSOP, SOT, SC70			
MCP6546/7/8/9	1/2/1/4	4	1	5	1.6 to 5.5	-40 to +125	Open-Drain, 9V, Rail-to-Rail Input/Output	PDIP, SOIC, MSOP, TSSOP, SOT, SC70			
MCP65R41/6	1	4	2.5	10	1.8 to 5.5	-40 to +125	Integrated V _{REF} (1.21V or 2.4V)	SOT-23			
MCP6561/2/4	1/2/4	0.047	100	10	1.8 to 5.5	-40 to +125	Push-Pull, Rail-to-Rail Input/Output	SOIC, MSOP, TSSOP, SOT, SC70			
MCP6566/7/9	1/2/4	0.047	100	10	1.8 to 5.5	-40 to +125	Open-Drain, Rail-to-Rail Input/Output	SOIC, MSOP, TSSOP, SOT, SC70			
MIC6270	1	0.6	300	5	2.0 to 36	-40 to +85	Open Collector Output, High-Voltage	SOT			
MIC7211/21	1	4	5	10	2.2 to 5.0	-40 to +85	Rail-to-Rail Input, Push-Pull/Open-Drain Output	SOT			
MIC833	1	5	1	-	1.5 to 5.5	-40 to +85	Windowed Comparator with Adjustable Hysteresis	SOT			
MIC834	1	5	1.5	-	1.5 to 5.5	-40 to +85	Windowed Comparator with Hysteresis	SOT			
MIC841	1	12	1.5	-	1.5 to 5.5	-40 to +85	Windowed Comparator with Adjustable Hysteresis, Push-Pull and Open-Drain Output Options	SC70, DFN			
MIC842	1	12	1.5	-	1.5 to 5.5	-40 to +85	Windowed Comparator with Hysteresis, Push-Pull and Open-Drain Output Options	SC70, DFN			
MIC845	1	12	1	-	2.75 to 5.5	-40 to +85	Push-Pull and Open-Drain Output Options	SC70			
MIXED SIGNAL: Successive Approximation Register (SAR) Analog-to-Digital Converters											
Product	Resolution (bits)	Maximum Sampling Rate (ksamples/sec)	# of Input Channels	Input Type	Interface	Max. Supply Current (μA)	Temperature Range (°C)	Packages			
MCP3021/3221	10/12	22	1	Single-ended	I ² C	250	-40 to +125	SOT-23A			
MCP3001/2/4/8	10	200	1/2/4/8	Single-ended	SPI	500-550	-40 to +85	PDIP, SOIC, MSOP, TSSOP			
MCP3201/2/4/8	12	100	1/2/4/8	Single-ended	SPI	400-550	-40 to +85	PDIP, SOIC, MSOP, TSSOP			
MCP3301/2/4	13	100	1/2/4	Differential	SPI	450	-40 to +85	PDIP, SOIC, MSOP, TSSOP			
MIXED SIGNAL: Digital-to-Analog Converters											
Product	Resolution (Bits)	DAC Channels	Interface	Memory	Voltage Reference	Output Settling Time (μs)	DNL (±LSB)	INL (±LSB)	Typical Operating Current (μA)	Temperature Range (°C)	Packages
MCP48FEB01/11/21	8/10/12	1	SPI	EEPROM	V _{DD} , V _{REF} , V _{BG}	7.8	0.25/0.5/1	0.5/1.5/6	180 (max)	-40 to +125	MSOP-8
MCP48FEB02/12/22	8/10/12	2	SPI	EEPROM	V _{DD} , V _{REF} , V _{BG}	7.8	0.25/0.5/1	0.5/1.5/6	380 (max)	-40 to +125	MSOP-8
MCP48FB01/11/21	8/10/12	1	SPI	Volatile	V _{DD} , V _{REF} , V _{BG}	7.8	0.25/0.5/1	0.5/1.5/6	180 (max)	-40 to +125	MSOP-8
MCP48FB02/12/22	8/10/12	2	SPI	Volatile	V _{DD} , V _{REF} , V _{BG}	7.8	0.25/0.5/1	0.5/1.5/6	380 (max)	-40 to +125	MSOP-8
MCP47FEB01/11/21	8/10/12	1	I ² C	EEPROM	V _{DD} , V _{REF} , V _{BG}	6	0.25/0.5/1	0.5/1.5/6	180 (max)	-40 to +125	MSOP-8
MCP47FEB02/12/22	8/10/12	2	I ² C	EEPROM	V _{DD} , V _{REF} , V _{BG}	6	0.25/0.5/1	0.5/1.5/6	380 (max)	-40 to +125	MSOP-8
MCP47FB01/11/21	8/10/12	1	I ² C	Volatile	V _{DD} , V _{REF} , V _{BG}	6	0.25/0.5/1	0.5/1.5/6	180 (max)	-40 to +125	MSOP-8
MCP47FB02/12/22	8/10/12	2	I ² C	Volatile	V _{DD} , V _{REF} , V _{BG}	6	0.25/0.5/1	0.5/1.5/6	380 (max)	-40 to +125	MSOP-8
MCP47DA1	6	1	I ² C	Volatile	V _{REF}	6	0.35	0.7	160 (max)	-40 to +125	SOT23-6, SC70-6
MCP4706/16/26	8/10/12	1	I ² C	EEPROM	V _{DD} , V _{REF}	6	0.05/0.188/0.75	0.907/3.625/14.5	400(max)	-40 to +125	SOT23-6, 2 x 2 DFN-6
MCP4725	12	1	I ² C	EEPROM	V _{DD}	6	0.75	14.5	400 (max)	-40 to +125	SOT23-6
MCP4728	12	4	I ² C	EEPROM	V _{DD} , V _{BG}	6	0.75	13	1400 (max)	-40 to +125	MSOP-10
MCP4801/11/21	8/10/12	1	SPI	Volatile	V _{BG}	4.5	0.5/0.5/0.75	1/3.5/12	400 (max)	-40 to +125	MSOP-8, 2 x 3 DFN-8, SOIC-8, PDIP-8
MCP4802/12/22	8/10/12	2	SPI	Volatile	V _{BG}	4.5	0.5/0.5/0.75	1/3.5/12	400 (max)	-40 to +125	MSOP-8, 2 x 3 DFN-8, SOIC-8, PDIP-8
MCP4901/11/21	8/10/12	1	SPI	Volatile	V _{REF}	4.5	0.5/0.5/0.75	1/3.5/12	350 (max)	-40 to +125	MSOP-8, 2 x 3 DFN-8, SOIC-8, PDIP-8
MCP4902/12/22	8/10/12	2	SPI	Volatile	V _{REF}	4.5	0.5/0.5/0.75	1/3.5/12	350 (max)	-40 to +125	MSOP-8, 2 x 3 DFN-8, SOIC-8, PDIP-8

MIXED SIGNAL: Energy Meter and Power Monitoring ICs

Product	Dynamic Range	Typical Accuracy	Input Channels	ADC Resolution	Gain Selection	Event Monitoring	Zero-Cross Detection Pin	Output Type	V _{DD} (V)	Temperature Range (°C)	Features	Packages
MCP39F511	4000:1	0.1%	I, V, Temp.	24-bit	Up to 32	5	Yes	UART/Single-wire	2.7 to 3.6	-40 to +125	Power monitoring IC with active, reactive and apparent power, active and reactive energy, PF, RMS current/voltage, frequency, event notifications, EEPROM, PWM output	QFN
MCP39F521	4000:1	0.1%	I, V, Temp.	24-bit	Up to 32	4	Yes	I ² C	2.7 to 3.6	-40 to +125	Power monitoring IC with active, reactive and apparent power, active and reactive energy, PF, RMS current/voltage, frequency, event notifications, EEPROM	QFN
MCP39F511N	4000:1	0.5%	I ₁ , I ₂ , V	24-bit	Up to 32	6	Yes	UART	2.7 to 3.6	-40 to +125	Dual-channel power monitoring IC with active, reactive and apparent power, active and reactive energy, PF, RMS current/voltage, frequency, event notifications, EEPROM, PWM output	QFN
MCP3905A/06A	500:1/1000:1	0.10%	I, V	16-bit	Up to 32	–	–	Active Power Pulse	4.5 to 5.5	-40 to +125	Active power calculation	SSOP

MIXED SIGNAL: Energy Measurement AFEs

Product	Dynamic Range	Typical Accuracy	ADC Channels	ADC Resolution	SINAD	Gain Selection	Output Type	V _{DD} (V)	Temperature Range (°C)	Features	Packages
MCP3918/10	10000:1	0.1%	1/2	24-bit	93.5	Up to 32	SPI/2-wire	2.7 to 3.6	-40 to +125	AFE with phase correction, programmable data rate, 16-bit CRC, register map lock, 2-wire interface	SSOP, QFN
MCP3919	10000:1	0.1%	3	24-bit	93.5	Up to 32	SPI/2-wire	2.7 to 3.6	-40 to +125	AFE with phase correction, programmable data rate, 16-bit CRC, register map lock, 2-wire interface	SSOP, QFN
MCP3912	10000:1	0.1%	4	24-bit	93.5	Up to 32	SPI	2.7 to 3.6	-40 to +125	AFE with phase correction, programmable data rate, 16-bit CRC, register map lock	SSOP, QFN
MCP3913/14	10000:1	0.1%	6/8	24-bit	94.5	Up to 32	SPI	2.7 to 3.6	-40 to +125	AFE with phase correction, programmable data rate, 16-bit CRC, register map lock	SSOP, UQFN

MIXED SIGNAL: Current/DC Power Measurement ICs

Product	# Current Sensors	Description	Full Scale Range (mV)	Current Measurement Max. Accr. (%)	Effective Sampling Interval Min. to Max. (msec)	Bus Voltage Range (V)	# Temp. Monitors (ambient, remote)	Temp. Accuracy Typ./Max. (°C)	Alert/Therm.	Peak Detection	Interface	Packages
PAC1710	1	Current/DC Power Sensor	10, 20, 40, 80	±1	2.5 to 2600	0 to +40	N/A	N/A	1	–	SMBus/I ² C	10-pin DFN
PAC1720	2	Dual Current/DC Power Sensor	10, 20, 40, 80	±1	2.5 to 2600	0 to +40	N/A	N/A	1	–	SMBus/I ² C	10-pin DFN
PAC1921	1	SMBus/I ² C Current/Power Sensor with Analog Output	100	±1	2.5 to 2900	0 to +32	N/A	N/A	–	–	SMBus/I ² C	10-pin DFN
EMC1701/2/4	1	Current/DC Power Sensor with Temperature Monitoring	10, 20, 40, 80	±1	2.5 to 2600	+3 to +24	1, 0/1/3	±0.25/±1.0	2	✓	SMBus/I ² C	12-pin QFN, 10-pin MSOP, 16-pin QFN, 14-pin SOIC

MIXED SIGNAL: Digital Potentiometers

Product	# of Taps	Memory	Channels	Interface	Resistance (kΩ)	Temperature Range (°C)	Packages	Product	# of Taps	Memory	Channels	Interface	Resistance (kΩ)	Temperature Range (°C)	Packages
MCP4011/12/13/14	64	Volatile	1	Up/Down	2.1, 5, 10, 50	-40 to +125	DFN, SOT-23	MCP4331/32	129	Volatile	4	SPI	5,10,50,100	-40 to +125	TSSOP, QFN
MCP4017/18/19	128	Volatile	1	I ² C	5, 10, 50, 100	-40 to +125	SC70	MCP4351/52	257	Volatile	4	SPI	5,10,50,100	-40 to +125	TSSOP, QFN
MCP40D17/D18/D19	128	Volatile	1	I ² C	5, 10, 50, 100	-40 to +125	SC70	MCP4431/32	129	Volatile	4	I ² C	5, 10, 50, 100	-40 to +125	TSSOP, QFN
MCP4021/22/23/24	64	Nonvolatile	1	Up/Down	2.1, 5, 10, 50	-40 to +125	DFN, SOT-23	MCP4441/42	129	Nonvolatile	4	I ² C	5, 10, 50, 100	-40 to +125	TSSOP, QFN
MCP4141/42	128	Nonvolatile	1	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN	MCP4451/52	257	Volatile	4	I ² C	5, 10, 50, 100	-40 to +125	TSSOP, QFN
MCP4241/42	128	Nonvolatile	2	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN	MCP4461/62	257	Nonvolatile	4	I ² C	5, 10, 50, 102	-40 to +125	TSSOP, QFN
MCP4131/32	128	Volatile	1	SPI	5, 10, 50, 100	-40 to +125	QFN, DFN	MCP4531/32	128	Volatile	1	I ² C	5, 10, 50, 100	-40 to +125	MSOP, DFN
MCP4231/32	128	Volatile	2	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN	MCP4631/32	128	Volatile	2	I ² C	5, 10, 50, 100	-40 to +125	MSOP, DFN
MCP4151/52	256	Volatile	1	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN	MCP4541/42	128	Nonvolatile	1	I ² C	5, 10, 50, 100	-40 to +125	MSOP, DFN
MCP41HV31	128	Volatile	1	SPI	5, 10, 50, 100	-40 to +125	TSSOP, QFN	MCP4541/42	128	Nonvolatile	1	I ² C	5, 10, 50, 100	-40 to +125	MSOP, DFN
MCP41HV51	256	Volatile	1	SPI	5, 10, 50, 100	-40 to +125	TSSOP, QFN	MCP4541/42	128	Nonvolatile	1	I ² C	5, 10, 50, 100	-40 to +125	MSOP, DFN
MCP4161/62	256	Nonvolatile	1	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN	MCP4541/42	128	Nonvolatile	2	I ² C	5, 10, 50, 100	-40 to +125	MSOP, DFN
MCP4251/52	256	Volatile	2	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN	MCP4551/52	256	Volatile	1	I ² C	5, 10, 50, 100	-40 to +125	MSOP, DFN
MCP4261/62	256	Nonvolatile	2	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN	MCP4651/52	256	Volatile	2	I ² C	5, 10, 50, 100	-40 to +125	MSOP, DFN
MCP4341/42	129	Nonvolatile	4	SPI	5, 10, 50, 100	-40 to +125	TSSOP, QFN	MCP4561/62	256	Nonvolatile	1	I ² C	5, 10, 50, 100	-40 to +125	MSOP, DFN
MCP4361/62	257	Nonvolatile	4	SPI	5, 10, 50, 100	-40 to +125	TSSOP, QFN	MCP4661/62	256	Nonvolatile	2	I ² C	5, 10, 50, 100	-40 to +125	MSOP, DFN

MIXED SIGNAL: Delta-Sigma Analog-to-Digital Converters								
Product	Resolution (bits)	Maximum Sampling Rate (samples/sec)	# of Input Channels	Interface	Typical Supply Current (µA)	Temperature Range (°C)	Features	Packages
MCP3421/2/3/4	18 to 12	4 to 240	1/2/2/4 Diff	I ² C	155	-40 to +125	PGA, V _{REF}	SOIC, TSSOP, MSOP, DFN, SOT
MCP3425/6/7/8	16 to 12	15 to 240	1/2/2/4 Diff	I ² C	155	-40 to +125	PGA, V _{REF}	SOIC, TSSOP, MSOP, DFN, SOT
MCP3550/1/3	22	13/14/60	1 Diff	SPI	120	-40 to +125	50 & 60 Hz Rejection	SOIC, MSOP

MIXED SIGNAL: Pipelined Analog-to-Digital Converters												
Product	Resolution (bits)	Maximum Sampling Rate (Msamples/sec)	# of Input Channels	Power Dissipation (mW)	Interface	Input Channel BW (MHz)	SNR (dB)	SFDR (dB)	Temperature Range (°C)	Features	Packages	
MCP37D10-200	12	200	1	338	Serial DDR LVDS or Parallel CMOS	650	67	96	-40 to +85	Digital down-converter, decimation filters, noise-shaping requantizer	124-pin VTLA	
MCP37210-200	12	200	1	338	Serial DDR LVDS or Parallel CMOS	650	67	96	-40 to +85	Decimation filters, noise-shaping requantizer	124-pin VTLA	
MCP37D11-200	12	200	8-mux, Diff	468	Serial DDR LVDS or Parallel CMOS	1.2, 1.8	71.3	90	-40 to +85	Decimation filters, digital down-converter, noise-shaping requantizer	124-pin VTLA	
MCP37211-200	12	200	8-mux, Diff	468	Serial DDR LVDS or Parallel CMOS	1.2, 1.8	71.3	90	-40 to +85	Decimation filters, noise-shaping requantizer	124-pin VTLA	
MCP37D20-200	14	200	1	348	Serial DDR LVDS or Parallel CMOS	650	67.8	96	-40 to +85	Digital down-converter, decimation filters	124-pin VTLA	
MCP37220-200	14	200	1	348	Serial DDR LVDS or Parallel CMOS	650	67.8	96	-40 to +85	Decimation filters, noise-shaping requantizer	124-pin VTLA	
MCP37D21-200	14	200	8-mux, Diff	490	Serial DDR LVDS or Parallel CMOS	1.2, 1.8	74.2	90	-40 to +85	Decimation filters, digital down-converter	124-pin VTLA	
MCP37221-200	14	200	8-mux, Diff	490	Serial DDR LVDS or Parallel CMOS	1.2, 1.8	74.2	90	-40 to +85	Decimation filters	124-pin VTLA	
MCP37D31-200	16	200	8-mux, Diff	490	Serial DDR LVDS or Parallel CMOS	500	74	90	-40 to +85	Decimation filters	124-pin VTLA	
MCP37231-200	16	200	8-mux, Diff	490	Serial DDR LVDS or Parallel CMOS	500	74	90	-40 to +85	Digital down-converter, decimation filters	124-pin VTLA	

MIXED SIGNAL: Voltage References								
Product	Type	V _{IN} Max. (V)	Output Voltage (V)	Max. Load Current (mA)	Initial Accuracy (Max. %)	Temperature Coefficient (ppm/°C)	Max. Supply Current (µA @ 25°C)	Packages
MCP1501	Series	5.5	1.024V, 1.250V, 1.800V, 2.048V, 2.500V, 3.000V, 3.300V, 4.096V	20	±0.08	50	350	2 x 2 WDFN, SOT-23, SOIC
LM4040C/D	Shunt	15	2.5, 4.096, 5.0	15	±0.5/±1	100/150	65/85	SOT-23
LM4041C/D	Shunt	15	1.225, Adj. (1.24–10V)	12	±0.5/±1	100/150	70	SOT-23

INTERFACE: Controller Area Network (CAN) Products												
Product	Description and Features			Operating Voltage (V)	Operating Temperature Range (°C)	Tx Buffers	Rx Buffers	Filters	Masks	Interrupt Output	Packages	
MCP2515	MCP2510 pin-compatible upgrade with enhanced features including higher throughput and data byte filtering		2.7 to 5.5	-40 to +125	3	2	6	2	Yes	18-pin PDIP, 18-pin SOIC, 20-pin TSSOP		
MCP2561/2	High-Speed CAN Transceiver; MCP2561 = SPLIT Option for common mode stabilization, MCP2562 = V _{IO} Option for digital I/O level shifting from 1.8V to 5.5V		4.5 to 5.5	-40 to +150	-	-	-	-	-	8-pin PDIP, 8-pin SOIC, 8-pin 3 x 3 DFN		
MCP25625	Integrated High-Speed CAN Transceiver and CAN 2.0B Controller		2.7 to 5.5	-40 to +125	3	2	6	2	1	28-pin SSOP, 28-pin 6 x 6 QFN		
MCP256(1/2)FD	CAN Flexible Data Rate Transceiver MCP2561FD = SPLIT Option for common mode stabilization, MCP2562FD = V _{IO} Option for digital I/O level shifting from 1.8V to 5.5V		4.5 to 5.5	-40 to +150	-	-	-	-	-	8-pin PDIP, 8-pin SOIC, 8-pin 3 x 3 DFN		
MCP254(2/4)FD	CAN Flexible Data Rate Transceiver, Wake-up Pattern, MCP2544FD pin 5 = No Connect, MCP2542FD = V _{IO} digital level shifting from 1.7V to 5.5V		4.5 to 5.5	-40 to +150	-	-	-	-	-	8-pin PDIP, 8-pin SOIC, 8-pin 3 x 3 DFN		
MCP25612FD	Dual CAN FD Transceiver capable of both Classic CAN and CAN FD applications, optimized for up to 8 Mbps operation, standby current of 5 µA, typ. per transceiver		4.5 to 5.5	-40 to +150	-	-	-	-	-	14-pin SOIC		

INTERFACE: LIN Transceiver Products								
Product	Description	V _{REG} Output Voltage (V)	Operating Temperature Range (°C)	V _{REG} Output Current (mA)	V _{CC} Range (V)	Max. Baud Rate	LIN Specification Supported	Packages
MCP2003B	Stand-alone LIN Transceiver (industry-standard pinout)	None	-40 to +150	None	6 to 30	20 Kbaud	Revision 1.3, 2.0, 2.1, 2.2, SAE J2602	8-pin SOIC, 8-pin 2 x 3 DFN, 8-pin 3 x 3 DFN
MCP2021A, MCP2025	LIN Transceiver with integrated V _{REG}	5.0 ±3%, 3.3 ±3%	-40 to +125	70	6 to 18	20 Kbaud	Revision 1.3, 2.0, 2.1, SAE J2602	8-pin PDIP, 8-pin SOIC, 8-pin 4 x 4 DFN
MCP2050	LIN Transceiver with integrated V _{REG} , WWDT	5.0 ±3%, 3.3 ±3%	-40 to +125	70	6 to 18	20 Kbaud	Revision 1.3, 2.0, 2.1, SAE J2602	14-pin PDIP, 14-pin SOIC, 20-pin QFN

INTERFACE: Infrared Products

Product	Operating Voltage (V)	Operating Temperature Range (°C)	Max. Baud Rate (Kbaud)	Unique Features	Packages
MCP21(20/22)	2.5 to 5.5	-40 to +85	325	UART to IR encoder/decoder with both hardware and software baud rate selection	14-pin PDIP, 14-pin SOIC
MCP2140A	2.0 to 5.5	-40 to +85	9.6	IrDA® Standard protocol handler plus bit encoder/decoder, fixed baud rate, low cost	18-pin PDIP, 18-pin SOIC, 20-pin SSOP
MCP2150/5	3.0 to 5.5	-40 to +85	115.2	IrDA Standard protocol handler plus bit encoder/decoder on one chip for DTE applications, programmable ID	18-pin PDIP, 18-pin SOIC, 20-pin SSOP

INTERFACE: Serial Peripherals

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Product	Description	Operating Voltage (V)	Operating Temperature Range (°C)	Bus Type	Max. Bus Frequency (kHz)	Unique Features	Packages
MCP23008, MCP23017, MCP23009, MCP23018	8-bit or 16-bit I/O Port Expander	1.8 to 5.5	-40 to +85	I ² C	1700	Three HW address pins, HW interrupt, 25 mA source/sink capability per I/O	18-pin PDIP, 18-pin SOIC, 20-pin SSOP, 20-pin 4 x 4 QFN
MCP23S08, MCP23S17, MCP23S09, MCP23S18	8-bit or 16-bit I/O Port Expander	1.8 to 5.5	-40 to +85	SPI	10000	Three HW address pins, 25 mA sink/source per I/O, Interrupt output	18-pin PDIP, 18-pin SOIC, 20-pin SSOP, 20-pin 4 x 4 QFN

INTERFACE: USB Bridge Devices

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Product	USB Speed	USB Compliant	PHY	MCU Interface	Tx/Rx Buffer Size (bytes)	Number of GPIO	Operating Voltage (V)	Packages
MCP2200, MCP2210, MCP2221	Full-Speed USB (12 Mbps), Low-Speed USB (1.5 Mbps)	Yes	Yes	UART, SPI, I ² C	up to 128/128	up to 9	2.7 to 5.5	14- and 20-pin SOIC, TSSOP, QFN

INTERFACE: mTouch® AB1000 Resistive Touch Screen Controllers

INTERFACE: ANALOG RESISTIVE Touch Screen Controllers												
Product	Type	Communication	Touch Screens Supported	A/D	Resolution	Power	Points Per Second	Operating Temp. Range (°C)	Static Protection	5 ku Pricing†	Special Features	Packages
AR1021	Analog Resistive	SPI, I²C	All Manufacturers 4, 5 and 8 wire	Internal 10-bit Ratiometric	1024 x 1024	2.5V DC ±5% 5.5V DC ±5%	140 pps	-40 to +85	Per schematic	\$1.32	Controller driven calibration & Universal for all touch screens	20-pin SSOP (SS), SOIC (SO), QFN (ML)
AR1011	Analog Resistive	UART	All Manufacturers 4, 5 and 8 wire	Internal 10-bit Ratiometric	1024 x 1024	2.5V DC ±5% 5.5V DC ±5%	140 pps	-40 to +85	Per schematic	\$1.39	Controller driven calibration & Universal for all touch screens	20-pin SSOP (SS), SOIC (SO), QFN (ML)
AR1100	Analog Resistive	USB, UART	All Manufacturers 4, 5 and 8 wire	Internal 10-bit Ratiometric	1024 x 1024	3.3V DC ±5% 5.5V DC ±5%	150 pps	-40 to +85	Per schematic	\$1.61	Controller driven calibration & Universal for all touch screens	20-pin SSOP (SS), SOIC (SO), QFN (ML)
AR1100BRD	Analog Resistive	USB, RS-232	All Manufacturers 4, 5 and 8 wire	Internal 10-bit Ratiometric	1024 x 1024	3.3V DC ±5% 5.5V DC ±5%	150 pps	-40 to +85	Per schematic	\$12.78	Controller driven calibration & Universal for all touch screens	Board Module

ULTRASOUND: High-Voltage Analog Switch Products

Product	Number of Switches
HV20220, HV20320, HV232, HV219, HV2201, HV2301, HV2221, HV2321	8
HV2601, HV2701, HV2605, HV2705, HV2631, HV2731, HV2733	16
HV2661, HV2761, HV2662, HV2762	24
HV2808, HV2809, HV2801, HV2901, HV2802, HV2902	32

ULTASOUND: Ultrasound EET Driver Products

Product	Number of Drivers
MD1210, MD1211, MD1213	2
MD1810, MD1811, MD1820, MD1821, MD1822	4
MD1812, MD1813	5
MD1711, MD1712, MD1715, MD1716	12

ULTRASOUND: Integrated Ultrasound Transmitter								
Product					Number of Channels			
HV7360, HV7361					1 or 2			
HV748					4			
HV7355, HV7350, HV7351					8			

ULTRASOUND: Ultrasound T/R Switch								
Product					Number of Channels			
MD0100					1 or 2			
MD101, MD0105					4			

ULTRASOUND: Arbitrary Waveform Generator								
Product					Features			
MD2131					8-bit DAC, 48-step phase, PWM, 8-bit Apodization DAC			
MD2134					8-bit DAC, 7-bit PAM, 16-Level			

SAFETY AND SECURITY: Smoke Detector and Horn Driver ICs								
Product	Horn Driver	Detection Method	Low Battery Detection	Alarm Memory	Alarm Interconnect	Hush/Sensitivity Timer	Operating Temperature Range (°C)	Packages
RE46C140/1/3/4/5	Yes	Photo	Yes	No	Yes	140/4/5	-25 to +75	PDIP, SOIC
RE46C12X & 152	Yes	Ion	Yes	No	Not 120	122/7152	-10 to +60	PDIP
RE46C10X & 11X	Yes	Just Driver	5/7/9/19	NA	9/19	None	See Datasheet	See Datasheet
RE46C162/3, 5/6/7/8	Yes	Ion/Photo	Yes	Yes	Yes	Yes	-25 to +75	PDIP, SOIC
RE46C180	Yes	Ion	Yes	Yes	Yes	Yes	-10 to +60	PDIP, SOIC
RE46C190	Yes	Photo	Yes	Yes	Yes	Yes	-10 to +60	SOIC
RE46C317/8	Yes	Just Driver	No	No	No	No	-10 to +60	PDIP, SOIC

MOTOR DRIVERS: Stepper Motors, DC Motors and 3-Phase BLDC Fan Controllers								
Product	Motor Type	Input Voltage Range (V)	Internal/External FETs	Output Current (mA)	Control Scheme	Motor Speed Output	Protections	Operating Temp. Range (°C)
MCP8024/6	3-Phase Brushless Motors	6.0 to 28.0	External	500	Direct PWM	N/A	Overcurrent, Overvoltage, Undervoltage, Overtemperature, 48V Load Dump Protection, Short Circuit, Shoot Through	-40 to +150
MCP8025	3-Phase Brushless Motor	6.0 to 19.0	External	500	Direct PWM	N/A	Overcurrent, Overvoltage, Undervoltage, Overtemperature, 48V Load Dump Protection, Short Circuit, Shoot Through	-40 to +150
MCP8063	3-Phase Brushless Motor	2.0 to 14.0	Internal	750	Sensorless Sinusoidal	Frequency Generator	Overtemperature, Motor Lock-up, Overcurrent, Overvoltage	-40 to +125
MTS62C19A/MTS2916A	One Bipolar Stepper Motor or Two DC Motors	10.0 to 40.0	Internal	750	Direct PWM Input, Current Limit Control, Microstepping	No	Overtemperature, Under Voltage	-40 to +105
MTD6501C/G	3-Phase Brushless Motor	2.0 to 14.0	Internal	800	Sensorless Sinusoidal	Frequency Generator	Overtemperature, Motor Lock-up, Overcurrent, Overvoltage	-30 to +95
MTD6501D	3-Phase Brushless Motor	2.0 to 14.0	Internal	500	Sensorless Sinusoidal	Frequency Generator	Overtemperature, Motor Lock-up, Overcurrent, Overvoltage	-30 to +95
MTD6502B	3-Phase Brushless Motor	2.0 to 5.5	Internal	750	Sensorless Sinusoidal	Frequency Generator	Overtemperature, Motor Lock-up, Overcurrent, Overvoltage	-40 to +125
MTD6505/8	3-Phase Brushless Motor	2.0 to 5.5	Internal	750	Sensorless Sinusoidal	Frequency Generator	Overcurrent, Overvoltage, Overtemperature, Motor Lock-up	-40 to +125

CLOCK GENERATORS: 555 Timers

Product	Description	Min Voltage (V)	Max Voltage (V)	Current (µA)	Timing Accuracy	Max. Frequency	Packages
MIC1555	RC Timer/Oscillator "555 Timer"	2.7	18	240	0.02	5 MHz	SOT23-5, 2 × 2
MIC1557	RC Timer/Oscillator with Shutdown	2.7	18	240	0.02	5 MHz	SOT23-5

CLOCK GENERATORS: ClockWorks® FUSION Family, Ultra-Low Jitter

Product	Description	Supply Voltage (V)	Output Type	Output(s) (MHz)	Typical Jitter (12 kHz–20 MHz)	FSEL	OE	Applications	Packages
MX85XXX	Multiple Output, Ultra-Low Jitter	2.5/3.3	PECL, LVDS, HCSL, CMOS	<840	180 fs	✓	✓	1/10/40/100 GbE, PCIe, SONET, SAS/SATA	5 × 7

CLOCK GENERATORS: FLEX Ultra-Low Jitter

Product	Description	Supply Voltage (V)	I _{cc} (mA)	Crystal Input (MHz)	REFIN (MHz)	Output Type	Output(s) (MHz)	Typical Jitter (12 kHz–20 MHz)	FSEL	PLL Bypass	NSEL	OE	Applications	Packages
SM803XXX	12 Output, Ultra-Low Jitter	2.5/3.3	140	12–55	12–850	12-Diff/SE	12–850	180 fs	✓	✓	–	✓	GbE, 100 GbE, PCIe, SONET, SAS/SATA	7 × 7 QFN
SM802XXX	8 Output, Ultra-Low Jitter	2.5/3.3	150	11–30	11–80	8-Diff/16-SE	11–840	240 fs	✓	✓	–	✓	GbE, 100 GbE, PCIe, SONET, SAS/SATA	7 × 7 QFN
SM813XXX	8 Output, Ultra-Low Jitter	2.5/3.3V	140	12–55	–	8-Diff/SE	12–850	120 fs	✓	✓	–	✓	GbE, 100 GbE, PCIe, SONET, SAS/SATA	7 × 7 QFN

CLOCK GENERATORS: General-Purpose Programmable Clock Generators

Product	Description	# of PLLs	Crystal Input (MHz)	Input Reference (MHz)	Output Frequency Min. (MHz)	Output Frequency Max. (MHz)	# of Outputs	Voltage (V)	Programmable Pin(s) (PDB)	OE	FSEL	CLK	Ultra-Low Power	Packages
PL610-01	PicoPLL Clock Generator	0	10–130	1–130	0.16	130	≤2	1.8–3.3	✓	✓	–	✓	✓	6-pin DFN, 6-pin SOT23
PL610-01/02/03	PicoPLL Clock Generator	0	10–130	1–130	0.16	130	≤2	1.8–3.3	✓	✓	–	✓	✓	Die
PL610-06	PicoPLL Clock Generator	0	10–60	–	0.16	60	≤2	1.8–3.3	✓	✓	–	✓	✓	Die
PL611-01	PicoPLL Clock Generator	1	10–30	1–130	1	200	≤3	2.5–3.3	✓	✓	✓	✓	–	8-pin SOP, 6-pin SOT23
PL611-30	PicoPLL Clock Generator	1	10–30	1–200	5	400	≤3	2.5–3.3	–	✓	✓	✓	–	8-pin SOP, 6-pin SOT23
PL611S-02	PicoPLL Clock Generator	1	10–50	1–200	2	200	≤2	1.8–3.3	✓	✓	✓	✓	–	6-pin DFN, 6-pin SOT23
PL611S-02/03	PicoPLL Clock Generator	1	10–50	–	2	200	≤2	1.8–3.3	✓	✓	✓	✓	–	Die
PL611S-04	PicoPLL Clock Generator	1	10–50	–	2	200	≤2	1.8–3.3	✓	✓	✓	✓	–	Die
PL611S-18	PicoPLL Clock Generator	1	10–50	1–200	0.5	125	2	1.8–3.3	✓	✓	✓	✓	✓	6-pin DFN, 6-pin SOT23
PL611S-19	PicoPLL Clock Generator	1	–	0.01–200	0.5	125	2	1.8–3.3	✓	✓	✓	✓	✓	6-pin DFN, 6-pin SOT23
PL611S-27	PicoPLL Clock Generator	1	–	1–200	1	125	≤2	1.8–3.3	✓	✓	✓	✓	✓	6-pin DFN, 6-pin SOT23
PL613-01	PicoPLL Clock Generator	3	10–40	10–200	1	200	≤8	1.8–3.3	✓	✓	✓	✓	✓	16-pin QFN, 16-pin TSSOP
PL613-05	PicoPLL Clock Generator	3	10–40	10–200	1	200	≤3	1.8–3.3	✓	✓	✓	✓	✓	8-pin SOP
PL613-21	PicoPLL Clock Generator	3	10–40	10–200	0.004	125	≤4	1.8–3.3	✓	✓	✓	✓	✓	16-pin QFN, 16-pin TSSOP

CLOCK GENERATORS: JitterBlocker™ Family

Product	Description	Input Frequency Min. (MHz)	Input Frequency Max. (MHz)	Output Frequency Min. (MHz)	Output Frequency Max. (MHz)	# of Outputs	Voltage (V)	Programmable Pin(s) (PDB)	OE	FSEL	CLK	Ultra-Low Power	Packages
PL902	Low Power, Clock Conditioner	1	200	1.25	200	3 SE	2.5, 3.3	✓	✓	✓	✓	✓	6-pin SOT23
PL903	Low Power, Clock Conditioner	12	200	12	840	1 Diff	2.5, 3.3	–	✓	–	✓	–	24-pin QFN
PL904	Low Power, Clock Conditioner	12	250	12	850	2 Diff	2.5, 3.3	–	✓	–	✓	–	32-pin QFN

CLOCK GENERATORS: Programmable EMI Reduction Clock

Product	Description	# of PLLs	Crystal Input (MHz)	Input Reference (MHz)	Output Frequency Min. (MHz)	Output Frequency Max. (MHz)	# of Outputs	Voltage (V)	Programmable Pin(s) (PDB)	CSEL	CLK	Packages
PL671-01	Programmable EMI Reduction Clock	1	10–40	1–200	1	200	≤3	2.5, 3.3	✓	✓	✓	8-pin SOP, 6-pin SOT23
PL671-02	Programmable EMI Reduction Clock	1	–	1–200	1	200	≤3	2.5, 3.3	✓	✓	✓	6-pin SOT23
PL671-25	Programmable EMI Reduction Clock	1	10–40	1–200	1	200	2	2.5, 3.3	✓	✓	✓	8-pin SOP
PL671-29	Programmable EMI Reduction Clock	1	10–40	1–200	1	200	1	2.5, 3.3	✓	✓	✓	8-pin SOP
PL671-30	Programmable EMI Reduction Clock	1	–	1–200	1	200	1	2.5, 3.3	✓	✓	✓	8-pin SOP
PL671-33	Programmable EMI Reduction Clock	1	10–40	1–200	1	200	≤2	2.5, 3.3	✓	✓	✓	8-pin SOP

Products sorted by pin count followed by pricing.

† Pricing subject to change; please contact your Microchip representative for most current pricing.

CLOCK GENERATORS: Crystal-Less MEMS										
Product	Description	Supply Voltage (V)	Output Type	Output(s) (MHz)	Freq. Stability (ppm)	Operating Temp. Range (°C)	Jitter (12k-20 MHz)	Programmability	Applications	Packages
DSC400	4 Output Crystal-less MEMS Clock Generator	2.25-3.6	2-4 CMOS, HCSL, LVPECL, LVDS	2.3-460	25-50	-40 to +85	1.7 ps (RMS)	Factory	Computing, networking, storage, industrial, consumer electronics, video	20-pin QFN (5.0 x 3.2)
DSC2010	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	1-CMOS	2.3-170	10-50	-55 to +125	1.7 ps (RMS)	Pin-Configurable	Consumer electronics	14-pin QFN (3.2 x 2.5)
DSC2011	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	2-CMOS	2.3-170	25-50	-55 to +125	1.7 ps (RMS)	Pin-Configurable	Consumer electronics	14-pin QFN (3.2 x 2.5)
DSC2020	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	1-LVPECL	2.3-460	10-50	-40 to +85	1.7 ps (RMS)	Pin-Configurable	Computing, networking, storage, industrial	14-pin QFN (3.2 x 2.5)
DSC2021	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	1-LVPECL, 1-CMOS	2.3-460	25-50	-40 to +85	1.7 ps (RMS)	Pin-Configurable	Computing, networking, storage, industrial	14-pin QFN (3.2 x 2.5)
DSC2022	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	2-LVPECL	2.3-460	25-50	-40 to +85	1.7 ps (RMS)	Pin-Configurable	Computing, networking, storage, industrial	14-pin QFN (3.2 x 2.5)
DSC2030	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	1-LVDS	2.3-460	10-50	-40 to +85	1.7 ps (RMS)	Pin-Configurable	Video	14-pin QFN (3.2 x 2.5)
DSC2031	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	1-LVDS, 1-CMOS	2.3-460	25-50	-40 to +85	1.7 ps (RMS)	Pin-Configurable	Video	14-pin QFN (3.2 x 2.5)
DSC2032	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	1-LVDS, 1-LVPECL	2.3-460	25-50	-40 to +85	1.7 ps (RMS)	Pin-Configurable	Video	14-pin QFN (3.2 x 2.5)
DSC2033	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	2-LVDS	2.3-460	25-50	-40 to +85	1.7 ps (RMS)	Pin-Configurable	Video	14-pin QFN (3.2 x 2.5)
DSC2040	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	1-HCSL	2.3-460	10-50	-40 to +85	1.7 ps (RMS)	Pin-Configurable	Computing, networking, storage, industrial	14-pin QFN (3.2 x 2.5)
DSC2041	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	1-HCSL, 1-CMOS	2.3-460	25-50	-40 to +85	1.7 ps (RMS)	Pin-Configurable	Computing, networking, storage, industrial	14-pin QFN (3.2 x 2.5)
DSC2042	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	1-HCSL, 1-LVPECL	2.3-460	25-50	-40 to +85	1.7 ps (RMS)	Pin-Configurable	Computing, networking, storage, industrial	14-pin QFN (3.2 x 2.5)
DSC2043	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	1-HCSL, 1-LVDS	2.3-460	25-50	-40 to +85	1.7 ps (RMS)	Pin-Configurable	Computing, networking, storage, industrial	14-pin QFN (3.2 x 2.5)
DSC2044	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	2-HCSL	2.3-460	25-50	-40 to +85	1.7 ps (RMS)	Pin-Configurable	Computing, networking, storage, industrial	14-pin QFN (3.2 x 2.5)
DSC2210	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	1-CMOS	2.3-170	10-50	-55 to +125	1.7 ps (RMS)	SPI/I ² C	Computing, Consumer electronics, storage	14-pin QFN (3.2 x 2.5)
DSC2211	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	2-CMOS	2.3-170	25-50	-55 to +125	1.7 ps (RMS)	SPI/I ² C	Computing, Consumer electronics, storage	14-pin QFN (3.2 x 2.5)
DSC2220	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	1-LVPECL	2.3-460	10-50	-40 to +85	1.7 ps (RMS)	SPI/I ² C	Computing, networking, storage, industrial	14-pin QFN (3.2 x 2.5)
DSC2221	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	1-LVPECL, 1-CMOS	2.3-460	25-50	-40 to +85	1.7 ps (RMS)	SPI/I ² C	Computing, networking, storage, industrial	14-pin QFN (3.2 x 2.5)
DSC2222	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	2-LVPECL	2.3-460	25-50	-40 to +85	1.7 ps (RMS)	SPI/I ² C	Computing, networking, storage, industrial	14-pin QFN (3.2 x 2.5)
DSC2230	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	1-LVDS	2.3-460	10-50	-40 to +85	1.7 ps (RMS)	SPI/I ² C	Video	14-pin QFN (3.2 x 2.5)
DSC2231	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	1-LVDS, 1-CMOS	2.3-460	25-50	-40 to +85	1.7 ps (RMS)	SPI/I ² C	Video	14-pin QFN (3.2 x 2.5)
DSC2232	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	1-LVDS, 1-LVPECL	2.3-460	25-50	-40 to +85	1.7 ps (RMS)	SPI/I ² C	Video	14-pin QFN (3.2 x 2.5)
DSC2233	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	2-LVDS	2.3-460	25-50	-40 to +85	1.7 ps (RMS)	SPI/I ² C	Video	14-pin QFN (3.2 x 2.5)
DSC2240	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	1-HCSL	2.3-460	10-50	-40 to +85	1.7 ps (RMS)	SPI/I ² C	Computing, networking, storage, industrial	14-pin QFN (3.2 x 2.5)
DSC2241	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	1-HCSL, 1-CMOS	2.3-460	25-50	-40 to +85	1.7 ps (RMS)	SPI/I ² C	Computing, networking, storage, industrial	14-pin QFN (3.2 x 2.5)
DSC2242	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	1-HCSL, 1-LVPECL	2.3-460	25-50	-40 to +85	1.7 ps (RMS)	SPI/I ² C	Computing, networking, storage, industrial	14-pin QFN (3.2 x 2.5)
DSC2243	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	1-HCSL, 1-LVDS	2.3-460	25-50	-40 to +85	1.7 ps (RMS)	SPI/I ² C	Computing, networking, storage, industrial	14-pin QFN (3.2 x 2.5)
DSC2244	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	2-HCSL	2.3-460	25-50	-40 to +85	1.7 ps (RMS)	SPI/I ² C	Computing, networking, storage, industrial	14-pin QFN (3.2 x 2.5)
DSC2311	2 Output Crystal-less MEMS Clock Generator	2.25-3.6	2-CMOS	2.3-170	25-50	-55 to +125	1.7 ps (RMS)	Factory	Consumer electronics	6-pin QFN (2.5 x 2.0)

CLOCK GENERATORS Application-Specific Crystal-Less MEMS										
Product	Description	Supply Voltage (V)	Output Type	Output(s) (MHz)	Freq. Stability (ppm)	Operating Temp. Range (°C)	Jitter (12k-20 MHz)	Programmability	Applications	Packages
DSC501-05	1-4 Output Crystal-less MEMS Clock Generator	2.25-3.6	3-CMOS, 1-HCSL	60, 66,6667, 100	50-100	-40 to +105	1.7 ps (RMS)	Pin-Configurable	Printers	20-pin QFN (5.0 x 3.2)
DSC510-05	1-4 Output Crystal-less MEMS Clock Generator	2.25-3.6	4 Any Differential	25	50-100	-40 to +105	1.7 ps (RMS)	Pin-Configurable	Networking	20-pin QFN (5.0 x 3.2)
DSC511-03	1-4 Output Crystal-less MEMS Clock Generator	2.25-3.6	2-CMOS	2.3-170	10-50	-55 to +125	1.7 ps (RMS)	Factory	Consumer Electronics	6-pin QFN (2.5 x 2.0)
DSC511-05	1-4 Output Crystal-less MEMS Clock Generator	2.25-3.6	4 Any Differential	56.6	50-100	-40 to +105	1.7 ps (RMS)	Pin-Configurable	Networking	20-pin QFN (5.0 x 3.2)
DSC512-05	1-4 Output Crystal-less MEMS Clock Generator	2.25-3.6	2-CMOS, 2-LVDS	14, 16, 50	50-100	-40 to +105	1.7 ps (RMS)	Pin-Configurable	Networking	20-pin QFN (5.0 x 3.2)
DSC513-05	1-4 Output Crystal-less MEMS Clock Generator	2.25-3.6	4 Any Differential	200	50-100	-40 to +105	1.7 ps (RMS)	Pin-Configurable	Networking	20-pin QFN (5.0 x 3.2)
DSC520-03	1-4 Output Crystal-less MEMS Clock Generator	2.25-3.6	2-CMOS	25, 27	25-50	-55 to +125	1.7 ps (RMS)	Factory	VoIP	6-pin QFN (2.5 x 2.0)
DSC520-04	1-4 Output Crystal-less MEMS Clock Generator	2.25-3.6	3-CMOS	24, 25, 27	25-50	-55 to +125	1.7 ps (RMS)	Factory	VoIP	20-pin QFN (5.0 x 3.2)
DSC520-05	1-4 Output Crystal-less MEMS Clock Generator	2.25-3.6	4-CMOS	24, 25, 27	25-50	-55 to +125	1.7 ps (RMS)	Factory	VoIP	20-pin QFN (5.0 x 3.2)
DSC521-04	1-4 Output Crystal-less MEMS Clock Generator	2.25-3.6	3-CMOS	20, 25, 27	25-50	-55 to +125	1.7 ps (RMS)	Factory	VoIP	20-pin QFN (5.0 x 3.2)
DSC531-03	1-4 Output Crystal-less MEMS Clock Generator	2.25-3.6	1-CMOS, 1-LVPECL	100, 150	10-50	-40 to +85	1.7 ps (RMS)	Factory	SAS, SATA	20-pin QFN (5.0 x 3.2)
DSC533-05	1-4 Output Crystal-less MEMS Clock Generator	2.25-3.6	4-LVPECL	25, 100, 125, 133,333	50-100	-40 to +85	1.7 ps (RMS)	Factory	SAS	20-pin QFN (5.0 x 3.2)
DSC557-03	1-4 Output Crystal-less MEMS Clock Generator	2.25-3.6	2-HCSL	100	50-100	-40 to +105	1.7 ps (RMS)	Fixed	PCI Express	14-pin QFN (3.2 x 2.5), 16-pin TSSOP
DSC557-04	1-4 Output Crystal-less MEMS Clock Generator	2.25-3.6	3-HCSL	100	50-100	-40 to +105	1.7 ps (RMS)	Fixed	PCI Express	20-pin QFN (5.0 x 3.2)
DSC557-05	1-4 Output Crystal-less MEMS Clock Generator	2.25-3.6	4-HCSL	100	50-100	-40 to +105	1.7 ps (RMS)	Fixed	PCI Express	20-pin QFN (5.0 x 3.2)
DSC558-03	1-4 Output Crystal-less MEMS Clock Generator	2.25-3.6	2-HCSL	100	50-100	-40 to +105	1.7 ps (RMS)	Fixed	PCI Express	14-pin QFN (3.2 x 2.5), 16-pin TSSOP
DSC558-05	1-4 Output Crystal-less MEMS Clock Generator	2.25-3.6	4-HCSL	100	50-100	-40 to +105	1.7 ps (RMS)	Fixed	PCI Express	20-pin QFN (5.0 x 3.2)
DSC570-05	1-4 Output Crystal-less MEMS Clock Generator	2.25-3.6	4 Any Differential	156.25	50-100	-40 to +105	1.7 ps (RMS)	Pin-Configurable	xAUI	20-pin QFN (5.0 x 3.2)
DSC571-04	1-4 Output Crystal-less MEMS Clock Generator	2.25-3.6	3 Any Differential	100, 125, 156.25	50-100	-40 to +85	1.7 ps (RMS)	Pin-Configurable	xAUI, SGMII, SRIO	20-pin QFN (5.0 x 3.2)
DSC572-05	1-4 Output Crystal-less MEMS Clock Generator	2.25-3.6	4-LVPECL	155.25, 156.25	50-100	-40 to +105	1.7 ps (RMS)	Pin-Configurable	xAUI, GPON	20-pin QFN (5.0 x 3.2)
DSC591-03	1-4 Output Crystal-less MEMS Clock Generator	2.25-3.6	2-CMOS	25, 50	25-50	-55 to +125	1.7 ps (RMS)	Pin-Configurable	BMC - Server	14-pin QFN (3.2 x 2.5)
DSC592-03	1-4 Output Crystal-less MEMS Clock Generator	2.25-3.6	2-CMOS	50	25-50	-55 to +125	1.7 ps (RMS)	Pin-Configurable	BMC - Server	14-pin QFN (3.2 x 2.5)

CLOCK GENERATORS: PCIe Clock Generators								
Product	Description	Input Frequency (MHz)	Multiplier	Output Frequency (MHz)	# of Channels	Voltage (V)	With Spread Spectrum (EMI Reduction)	Packages
PL602-21	Fund Xtal or Single-Ended Clk	25	4	100	1	2.5, 3.3	-	8-pin SOP, 6-pin SOT23
PL602-22	Fund Xtal or Single-Ended Clk	25	5	125	1	2.5, 3.3	-	8-pin SOP, 6-pin SOT23
PL602-23	Fund Xtal or Single-Ended Clk	25	8	200	1	2.5, 3.3	-	8-pin SOP, 6-pin SOT23
PL602-26	Fund Xtal or Single-Ended Clk	25	1	25	1	2.5, 3.3	-	8-pin SOP, 6-pin SOT23
PL602-27	Fund Xtal or Single-Ended Clk	25	10	250	1	2.5, 3.3	-	8-pin SOP, 6-pin SOT23
PL602-15	Fund Xtal or Single-Ended Clk	25	6.25	156.25	1	2.5, 3.3	-	8-pin SOP, 6-pin SOT23
PL602031	Fund Xtal or Single-Ended Clk	25	1	25	2	2.5, 3.3	-	16-pin QFN 3 x 3
PL602032	Fund Xtal or Single-Ended Clk	25	4	100	2	2.5, 3.3	-	16-pin QFN 3 x 3
PL602033	Fund Xtal or Single-Ended Clk	25	5	125	2	2.5, 3.3	-	16-pin QFN 3 x 3
PL602034	Fund Xtal or Single-Ended Clk	25	8	200	2	2.5, 3.3	-	16-pin QFN 3 x 3
PL602041	Fund Xtal or Single-Ended Clk	25	1, 4, 5, 8	25, 100, 125, 200	4	2.5, 3.3	-	24-pin QFN 4 x 4
PL607041	Fund Xtal or Single-Ended Clk	25	1, 4, 5, 8	25, 100, 125, 200	4	2.5, 3.3	✓	24-pin QFN 4 x 4
PL602081	Fund Xtal or Single-Ended Clk	25	1, 4, 8	25, 100, 200	8	2.5, 3.3	-	44-pin QFN 7 x 7
PL602082	Fund Xtal or Single-Ended Clk	25	1, 5, 10	25, 125, 250	8	2.5, 3.3	-	44-pin QFN 7 x 7
PL607081	Fund Xtal or Single-Ended Clk	25	1, 4, 8	25, 100, 200	8	2.5, 3.3	✓	44-pin QFN 7 x 7
PL607082	Fund Xtal or Single-Ended Clk	25	1, 5, 10	25, 125, 250	8	2.5, 3.3	✓	44-pin QFN 7 x 7

OSCILLATORS: Pure Silicon MEMS Oscillators									
Product	Description	Typ. RMS Jitter	Supply Voltage (V)	Output Type	Frequency Range (MHz)	Frequency Stability (PPM)	Supply Current (mA)	Temperature Range (°C)	Packages
DSC1001	Ultra Low Power	10 ps	1.7-3.6	CMOS	1-150	10/25/50	5	-40 to +105	2.5 x 2.0 to 5.0 x 7.0
DSC1003	Ultra Low Power	10 ps	1.7-3.6	CMOS	1-150	10/25/50	5	-40 to +105	2.5 x 2.0 to 5.0 x 7.0
DSC1004	Ultra Low Power	10 ps	1.7-3.6	CMOS	1-150	10/25/50	5	-40 to +105	2.5 x 2.0 to 5.0 x 7.0
DSC1018	Ultra Low Power (3 mA)	20 ps	1.65-1.95	CMOS	1-150	25/50	3	-40 to +105	2.5 x 2.0 to 5.0 x 7.0
DSC1025	Ultra Low Power (3 mA)	20 ps	2.3-3.7	CMOS	1-150	25/50	3	-40 to +105	2.5 x 2.0 to 5.0 x 7.0
DSC1028	Ultra Low Power (3 mA)	20 ps	2.6-3.0	CMOS	1-150	25/50	3	-40 to +105	2.5 x 2.0 to 5.0 x 7.0
DSC1030	Ultra Low Power (3 mA)	20 ps	2.7-3.3	CMOS	1-150	25/50	3	-40 to +105	2.5 x 2.0 to 5.0 x 7.0
DSC1033	Ultra Low Power (3 mA)	20 ps	3.0-3.6	CMOS	1-150	25/50	3	-40 to +105	2.5 x 2.0 to 5.0 x 7.0
DSC1101/DSC1121	Low Jitter (0.5 ps RMS)	1.7 ps	2.25-3.6	CMOS	2.3-170	10/25/50	25	-50 to +125	2.5 x 2.0 to 5.0 x 7.0
DSC1102/DSC1122	Low Jitter (0.5 ps RMS)	1.7 ps	2.25-3.6	LVPECL	2.3-425	10/25/50	40	-50 to +125	2.5 x 2.0 to 5.0 x 7.0
DSC1103/DSC1123	Low Jitter (0.5 ps RMS)	1.7 ps	2.25-3.6	LVDS	2.3-425	10/25/50	25	-50 to +125	2.5 x 2.0 to 5.0 x 7.0
DSC1104/DSC1124	Low Jitter (0.5 ps RMS)	1.7 ps	2.25-3.6	HCSL	2.3-425	10/25/50	30	-50 to +125	2.5 x 2.0 to 5.0 x 7.0

OSCILLATORS: ClockWorks® FUSION Family, Programmable Ultra-Low Jitter Oscillators									
Product	Description	Output Type	Output(s) (MHz)	Typical Jitter (12 kHz-20 MHz)	OE Pin	OE Active	Stability (ppm)	Applications	Packages
MX55XXX	Ultra-low Jitter Oscillator	LVDS, LVPECL, LVCmos, HCSL	Up to 850	160 fs	Sel	Sel	±50	Communications, Servers, Data Centers	5 x 3.2
MX57XXX	Ultra-low Jitter Oscillator	LVDS, LVPECL, LVCmos, HCSL	Up to 850	160 fs	Sel	Sel	±50	Communications, Servers, Data Centers	7 x 5
MX553ABB212M500	Ultra-low Jitter Oscillator	LVDS	212.5	175 fs	1	High	±50	Fibre Channel 10G/12G SERDES	5 x 3.2
MX553BBA156M250	Ultra-low Jitter Oscillator	LVPECL	156.25	175 fs	1	High	±50	10/40/400 Gigabit Ethernet, Fibre Channel 10G/12G SERDES	5 x 3.2
MX555ABA25M0000	Ultra-low Jitter Oscillator	LVPECL	25	220 fs	1	High	±50	Router, Switch	5 x 3.2
MX573ABA212M500	Ultra-low Jitter Oscillator	LVPECL	212.5	175 fs	1	High	±50	Fibre Channel 10G/12G SERDES	7 x 5
MX573BBA156M250	Ultra-low Jitter Oscillator	LVPECL	156.25	175 fs	1	High	±50	10/40/400 Gigabit Ethernet, Fibre Channel 10G/12G SERDES	7 x 5
MX573BBA312M500	Ultra-low Jitter Oscillator	LVPECL	312.5	175 fs	1	High	±50	10/40/400 Gigabit Ethernet, Fibre Channel 10G/12G SERDES	7 x 5
MX573BBB156M250	Ultra-low Jitter Oscillator	LVDS	156.25	175 fs	1	High	±50	10/40/400 Gigabit Ethernet, Fibre Channel 10G/12G SERDES	7 x 5
MX575ABA100M0000	Ultra-low Jitter Oscillator	LVPECL	100	220 fs	1	High	±50	PCI Express, Storage	7 x 5
MX555ABH25M0000	Ultra-low Jitter Oscillator	LVCmos	25	220 fs	1	Low	±50	Router, Switch	5 x 3.2
MX681EBA156M250	Ultra-low Jitter Oscillator	LVPECL	156.25	47fs	1	High	±50	10/40/400 Gigabit Ethernet, Telecom, NAS, Networking, Storage	5 x 7

Clock and Data Distribution: Fanout																		
Product	Fanout	Input	Output	Supply Voltage (V)	Output Voltage (V)	Max. Frequency (GHz)	Max. Data Rate (Gbps)	Max. Prop Delay (ps)	Icc (mA)	Max. Within Device Skew (ps)	Typical Jitter (fs) (12 kHz-20 MHz) @156.25 MHz	Typical Jitter (fs) (12 kHz-20 MHz) @156.25 MHz	OE	RPE	FSI	Input Mux	Input EQ	Packages
SY75578L	1:8	HCSL/LVDS	HCSL/LVDS	3.3	3.3	0.3	—	3000	140	<50	145	—	✓	—	—	✓	—	5 × 5mm 32-pin QFN
SY75576L	1:4	HCSL/LVDS	HCSL/LVDS	3.3	3.3	0.3	—	—	90	<50	153	—	✓	—	—	✓	—	20-pin TSSOP
SY75572L	1:2	HCSL/LVDS	HCSL	3.3	3.3	0.3	—	3000	60	<50	153	—	✓	—	—	✓	—	16-pin QFN
PL123-02N	1:2	LVCMOS	LVCMOS	1.8-3.3	1.8/2.5/3.3	0.2	—	—	1	<500	—	—	✓	—	—	—	—	6-pin DFN
PL123-05N	1:5	LVCMOS	LVCMOS	2.5, 3.3	2.5/3.3	0.13	—	—	30	<250	—	—	—	—	—	—	—	8-pin SOP
PL123-09N	1:9	LVCMOS	LVCMOS	2.5, 3.3	2.5/3.3	0.13	—	—	30	<250	—	—	—	—	—	—	—	16-pin TSSOP
PL133-27	1:2	Multiple	LVCMOS	1.8-3.3	1.8/2.5/3.3	0.15	—	—	1	<500	—	—	✓	—	—	—	—	6-pin DFN
PL133-37	1:3	Multiple	LVCMOS	1.8-3.3	1.8/2.5/3.3	0.15	—	—	1	<250	—	—	—	—	—	—	—	6-pin SOT23
PL133-47	1:4	LVCMOS	LVCMOS	2.5, 3.3	2.5/3.3	0.15	—	<9200	30	<250	—	—	—	—	—	—	—	8-pin SOP
PL133-67	1:6	LVCMOS	LVCMOS	2.5, 3.3	2.5/3.3	0.15	—	<9200	30	<250	—	—	✓	—	—	—	—	16-pin TSSOP
PL133-97	1:9	LVCMOS	LVCMOS	2.5, 3.3	2.5/3.3	0.15	—	<9200	30	<250	—	—	✓	—	—	—	—	16-pin QFN
PL135-27	1:2	XTAL	LVCMOS	1.8-3.3	1.8/2.5/3.3	0.04	—	—	1	<500	—	—	—	—	—	—	—	6-pin DFN
PL135-37	1:3	XTAL	LVCMOS	1.8-3.3	1.8/2.5/3.3	0.04	—	—	2	<250	—	—	✓	—	—	—	—	8-pin SOP
PL135-47	1:4	XTAL	LVCMOS	1.8-3.3	1.8/2.5/3.3	0.04	—	—	3	<250	—	—	✓	—	—	—	—	16-pin QFN
PL135-67	1:6	XTAL	LVCMOS	1.8-3.3	1.8/2.5/3.3	0.04	—	—	4	<250	—	—	✓	—	—	—	—	16-pin QFN
PL138-18	2:10	LVDS/LVPECL/LVHSTL/SSTL/HCSL	LVPECL	2.5, 3.3	2.5/3.3	0.7	—	<890	340	25	—	—	—	—	—	✓	—	32-pin LQFP
PL138-28	1:2	LVDS/LVPECL/LVHSTL/SSTL/HCSL	LVPECL	2.5, 3.3	2.5/3.3	1	—	<890	95	25	—	—	—	—	—	—	—	8-pin SOP
PL138-48	2:4	LVDS/LVPECL/LVHSTL/SSTL/HCSL	LVPECL	2.5, 3.3	2.5/3.3	1	—	<890	145	25	—	—	✓	—	—	✓	—	20-pin TSSOP
PL138-58	2:4	LVCMOS	LVPECL	2.5, 3.3	2.5/3.3	0.26	—	<890	165	25	—	—	✓	—	—	✓	—	3 × 3.5
PL138-98	2:9	LVDS/LVPECL/LVHSTL/SSTL/HCSL	LVPECL	2.5, 3.3	2.5/3.3	0.7	—	<890	310	25	—	—	✓	—	—	✓	—	32-pin LQFP
SY58608U	1:2	ANY	LVDS	2.5	2.5	2	3.2	<420	55	<20	—	—	—	—	✓	—	—	3 × 3
SY58606U	1:2	ANY	CML	2.5/3.3	2.5/3.3	2.5	4.25	<400	60	15	—	—	—	—	✓	—	—	3 × 3
SY58607U	1:2	ANY	LVPECL	2.5/3.3	2.5/3.3	2.5	3.2	<450	40	<20	—	—	—	—	✓	—	—	3 × 3
SY89311U	1:2	ECL/PECL/LVPECL/LVECL	ECL/PECL/LVPECL/LVECL	2.5/3.3/5	2.5/3.3/5	3	—	<300	—	<20	—	—	—	—	—	—	—	3 × 2
SY89851U	1:2	ANY	LVPECL	2.5/3.3	2.5/3.3	3	2.5	<340	32	<20	—	—	—	—	—	—	—	3 × 3
SY54011R	1:2	ANY	CML	2.5	1.2/1.8	3.2	3.2	<300	32	15	—	—	—	—	✓	—	—	3 × 3
SY54020AR	1:4	ANY	CML	2.5	1.2/1.8	3.2	3.2	<400	104	20	—	—	✓	—	—	—	—	3 × 3
SY54020R	1:4	ANY	CML	2.5	1.2/1.8	2.5	3.2	<320	106	20	—	—	✓	—	✓	—	—	3 × 3
SY56011R	1:2	ANY	CML	2.5	1.2/1.8/2.5	4.5	6.4	<280	54	15	—	—	—	—	—	—	✓	3 × 3
SY58012U	1:2	ANY	LVPECL	2.5/3.3	2.5/3.3	5	5	<260	55	15	—	—	—	—	—	—	—	3 × 3
SY58013U	1:2	ANY	RS-LVPECL	2.5/3.3	2.5/3.3	6	10.7	<250	75	15	—	—	—	—	—	—	—	3 × 3
SY58011U	1:2	ANY	CML	2.5/3.3	2.5/3.3	7	10.7	<250	75	15	—	—	—	—	—	✓	—	3 × 3
SY89844U	2:2	ANY	LVDS	2.5	2.5	1.5	—	<900	105	<20	—	—	—	✓	✓	✓	—	4 × 4
SY89473U	2:2	ANY	LVPECL	2.5/3.3	2.5/3.3	3	2.5	<600	45	<20	—	—	—	—	✓	—	—	4 × 4
SY89474U	2:2	ANY	LVDS	2.5	2.5	2.5	—	<550	80	<20	—	—	—	—	✓	—	—	4 × 4
SY89645L	1:4	LVCMOS/LVTTL	LVDS	3.3	3.3	0.65	—	<3000	43	<40	—	—	—	—	—	—	—	16-pin TSSOP
SY89831U	1:4	ANY	LVPECL	2.5/3.3	2.5/3.3	2	—	<390	47	<20	—	62	—	—	—	—	—	3 × 3
SY89832U	1:4	ANY	LVDS	2.5	2.5	2	—	<570	75	<20	—	—	—	—	—	—	—	3 × 3
SY89833AL	1:4	ANY	LVDS	3.3	3.3	2	—	<600	75	<20	—	—	—	—	—	—	—	3 × 3
SY89833L	1:4	ANY	LVDS	3.3	3.3	2	—	<600	75	<20	—	—	—	—	—	—	—	3 × 3
SY89854U	1:4	ANY	LVPECL	2.5/3.3	2.5/3.3	3.5	—	<340	55	<20	—	—	—	—	—	—	—	3 × 3
SY58021U	1:4	ANY	LVPECL	2.5/3.3	2.5/3.3	4	5	<300	125	15	—	—	—	—	—	—	—	3 × 3
SY56020R	1:4	ANY	CML	2.5	1.2/1.8/2.5	4.5	6.4	<280	60	15	—	—	✓	—	—	—	✓	3 × 3
SY58022U	1:4	ANY	RS-LVPECL	2.5/3.3	2.5/3.3	5.5	10	<250	125	15	—	—	—	—	—	—	—	3 × 3
SY58020U	1:4	ANY	CML	2.5/3.3	2.5/3.3	6	—	<250	150	15	—	—	—	—	—	—	—	3 × 3
SY898535XL	2:4	XTAL/LVCMOS	LVPECL	3.3	3.3	0.24	—	<1750	60	30	—	—	—	—	✓	—	—	20-pin TSSOP
SY898533L	2:4	Multiple	LVPECL	3.3	3.3	0.65	—	<1400	50	<30	—	—	—	—	✓	—	—	20-pin TSSOP
SY89834U	2:4	LVTTL	LVPECL	2.5/3.3	2.5/3.3	1	—	<500	50	<20	—	—	—	—	✓	—	—	3 × 3
SY89830U	2:4	ECL/PECL/LVPECL/LVECL	ECL/PECL/LVPECL/LVECL	2.5/3.3/5	2.5/3.3/5	2.5	—	<450	50	<25	—	—	—	—	✓	—	—	16-pin TSSOP

CLOCK AND DATA DISTRIBUTION: Fanout (Continued)																		
Product	Fanout	Input	Output	Supply Voltage (V)	Output Voltage (V)	Max. Frequency (GHz)	Max. Data Rate (Gbps)	Max. Prop Delay (ps)	Icc (mA)	Max. Within Device Skew (ps)	Typical Jitter (fs) (12 kHz-20 MHz) @156.25 MHz	Typical Jitter (fs) (12 kHz-20 MHz) @156.25 MHz	OE	RPE	FSI	Input Mux	Input EQ	Packages
SY89846U	2:5	ANY	LVPECL	2.5/3.3	2.5/3.3	1.5	—	<900	60	<20	—	—	✓	—	✓	✓	—	5x5
SY89847U	2:5	ANY	LVDS	2.5	2.5	1.5	—	<1000	90	<20	—	—	✓	—	✓	✓	—	5x5
SY89856U	2:6	ANY	LVPECL	2.5/3.3	2.5/3.3	3	—	<460	90	<30	—	—	—	—	—	✓	—	5x5
SY58035U	2:6	ANY	LVPECL	2.5/3.3	2.5/3.3	4.5	—	<230	185	<20	—	—	—	—	—	✓	—	5x5
SY58034U	2:6	ANY	CML	2.5/3.3	2.5/3.3	6	—	<290	245	<20	—	—	—	—	—	✓	—	5x5
SY58036U	2:6	ANY	RS-LVPECL	2.5/3.3	2.5/3.3	6	—	<300	180	<20	—	—	—	—	—	✓	—	5x5
SY56034AR	2:6	ANY	CML	2.5	1.2/1.8/2.5	5	6.4	—	100	25	—	—	—	—	—	✓	—	5x5
SY89200U	1:8	ANY	LVDS	2.5	2.5	1.5	—	<900	350	<25	—	—	—	—	—	—	—	5x5
SY89202U	1:8	ANY	LVPECL	2.5/3.3	2.5/3.3	1.5	—	<930	125	<25	—	—	—	—	—	—	—	5x5
SY89858U	1:8	ANY	LVPECL	2.5/3.3	2.5/3.3	3	—	<380	95	<30	—	—	—	—	—	—	—	5x5
SY58032U	1:8	ANY	LVPECL	2.5/3.3	2.5/3.3	4	—	<330	190	<20	—	—	—	—	—	—	—	5x5
SY58031U	1:8	ANY	CML	2.5/3.3	2.5/3.3	5	—	<270	265	<20	—	—	—	—	—	—	—	5x5
SY58033U	1:8	ANY	RS-LVPECL	2.5/3.3	2.5/3.3	5.5	—	<280	180	<20	—	—	—	—	—	—	—	5x5
SY89837U	2:8	ANY	LVPECL	2.5/3.3	2.5/3.3	1.5	—	<975	115	<40	—	—	—	✓	✓	✓	—	5x5
SY89838U	2:8	ANY	LVDS	2.5	2.5	1.5	—	<950	250	<40	—	—	—	✓	✓	✓	—	5x5
SY89809AL	2:9	LVPECL/HSTL	HSTL	1.8/3.3	1.8/3.3	0.75	—	<1070	65	15	—	—	✓	—	—	✓	—	32-pin TQFP
SY89828L	Dual 1:10	LVPECL/LVDS	LVDS	3.3	3.3	1	—	<1300	160	<50	—	—	✓	—	—	✓	—	64-pin TQFP
SY89829U	Dual 1:10	LVPECL/LVDS	LVPECL	2.5/3.3	2.5/3.3	1	—	<1500	100	<50	—	—	✓	—	—	✓	—	64-pin TQFP
SY89464U	2:10 RPE	ANY	LVPECL	2.5/3.3	2.5/3.3	2	—	<1150	120	<25	—	—	—	✓	✓	✓	✓	7x7
SY89465U	2:10 RPE	ANY	LVDS	2.5	2.5	2	—	<1200	250	<25	—	—	—	✓	✓	✓	✓	7x7
SY89112U	2:12	ANY	LVPECL	2.5/3.3	2.5/3.3	3	—	<550	95	<25	—	—	—	—	✓	—	—	7x7
SY89113U	2:12	ANY	LVDS	2.5	2.5	1	—	<975	240	<25	—	—	—	—	✓	—	—	7x7
SY898530U	1:16	LVDS/LVPECL/LVHSTL/SSTL/HCSL	LVPECL	3.3	3.3	0.5	—	<2000	125	<50	—	—	—	—	—	—	—	48-pin TQFP
SY89467U	2:20	ANY	LVPECL	2.5/3.3	2.5/3.3	1.5	—	<1200	120	<20	—	—	—	—	✓	✓	—	64-pin TQFP
SY89468U	2:20	ANY	LVDS	2.5	2.5	1.5	—	<1200	260	<25	—	—	—	—	✓	✓	—	64-pin TQFP
SY89825U	2:22	LVPECL/LVDS	LVPECL	2.5/3.3	2.5/3.3	1	—	<1200	100	<20	—	—	✓	—	—	✓	—	64-pin TQFP
SY89826L	2:22	LVPECL/LVDS	LVDS	3.3	3.3	1	—	<1250	175	<50	—	—	✓	—	—	✓	—	64-pin TQFP
SY10/100EL11V	1:2	PECL	PECL	3.3/5	3.3/5	0.75	—	<265	—	<20	—	—	—	—	—	—	—	8-pin SOIC
SY100EP14U	2:5	LVPECL	LVPECL	2.5/3.3	2.5/3.3	2	—	<600	75	<25	—	✓	✓	—	✓	✓	—	20-pin TSSOP
SY100EL14V	2:5	PECL	PECL	3.3/5	3.3/5	0.75	—	<880	32	<50	—	✓	—	—	✓	✓	—	20-pin TSSOP
SY100EP15V	2:5	LVPECL/CMOS	LVPECL	2.5/3.3/5	2.5/3.3/5	2.5	—	<425	75	<25	—	✓	—	—	✓	✓	—	16-pin TSSOP
SY100EL15L	2:4	PECL	PECL	3.3	3.3	0.75	—	<750	25	<50	—	✓	—	—	✓	✓	—	16-pin SOIC
SY100EP111U	2:10	LVPECL/LVECL/HSTL	PECL	2.5/3.3	2.5/3.3	3	—	<400	120	<25	—	—	—	—	✓	✓	—	32-pin TQFP
SY10EP11U	1:2	LVPECL/PECL/ECL	PECL	2.5/3.3/5	2.5/3.3/5	3	—	<300	25	<20	—	—	—	—	—	—	—	8-pin SOIC
SY100EP11U	1:2	LVPECL/PECL/ECL	PECL	2.5/3.3/5	2.5/3.3/5	3	—	<300	30	<20	—	—	—	—	—	—	—	8-pin SOIC
SY100E310L	2:8	ECL	PECL	3.3	3.3	—	—	725	55	50	—	—	—	—	—	—	—	28-pin PLCC

CLOCK AND DATA DISTRIBUTION: Zero Delay Buffers										
Product	# of Outputs	Fanout	ZDB	Input (MHz)	Output Type	Voltage (V)	Packages			
PL102-10	3	✓	✓	15-170	LVCMOS	2.5, 3.3	8-pin SOP, 6-pin SOT23			
PL123-05	5	✓	✓	10-134	LVCMOS	3.3	8-pin SOP			
PL123-09	9	✓	✓	10-134	LVCMOS	3.3	16-pin TSSOP, 16-pin SOP			
PL123E-05	5	✓	✓	10-220	LVCMOS	2.5, 3.3	8-pin SOP			
PL123E-09	9	✓	✓	10-220	LVCMOS	2.5, 3.3	16-pin TSSOP, 16-pin SOP			
PL123S-05	5	✓	✓	10-134	LVCMOS	3.3	8-pin SOP			
PL123S-09	9	✓	✓	10-134	LVCMOS	3.3	16-pin TSSOP, 16-pin SSOP			
MDB1900ZB	19	✓	✓	100, 133	HCSL	2.5, 3.3	72-pin QFN			
MDB1900ZC	19	✓	✓	100, 133	HCSL	2.5, 3.3	72-pin QFN			

CLOCK AND DATA DISTRIBUTION: Clock Dividers															
Product	Description	Legacy Part	Fanout Buffer (Y/N)	Input	Output	# of Outputs	Supply Voltage (V)	Max. Frequency (GHz)	I _{cc} (mA)	Max. Prop Delay (ps)	Max. Within Device Skew (ps)	OE	FSI	Input Mux	Packages
SY89218U	4 Banks ($\div 1, \div 2, \div 4$) 15 Total	-	Y	ANY	LVDS	15	2.5	1.5	325	1600	<35	-	✓	✓	64-pin TQFP
SY89228U	$\div 3, \div 5$	-	N	ANY	LVPECL	1	2.5/3.3	1	40	1500	450	-	✓	-	3 x 3
SY89231U	$\div 3, \div 5$	-	N	ANY	LVDS	1	2.5	3.2	71	810	300	-	✓	-	3 x 3
SY89312V	$\div 2, 2 \times 2$ ver of SY100EP32	-	N	ECL/PECL	ECL/PECL	1	3.3/5	4	-	440	-	-	✓	-	2 x 2
SY89313V	$\div 4, 2 \times 2$ ver of SY100EP33	-	N	ECL/PECL	ECL/PECL	1	3.3/5	4	-	500	-	-	-	-	2 x 2
SY89871U	2 Banks ($\div 1, \div 2, \div 4, \div 8, \div 16$)	-	Y	ANY	LVPECL	2	2.5/3.3	2.5	50	710	<15	✓	-	-	3 x 3
SY89872U	2 Banks ($\div 1, \div 2, \div 4, \div 8, \div 16$)	-	Y	ANY	LVDS	2	2.5	2	75	750	<15	✓	-	-	3 x 3
SY89873L	2 Banks ($\div 1, \div 2, \div 4, \div 8, \div 16$)	-	Y	ANY	LVDS	2	3.3	2	85	800	<15	✓	-	-	3 x 3
SY89874U	$\div 1, \div 2, \div 4, \div 8, \div 16$	-	Y	ANY	LVPECL	2	2.5/3.3	2.5	50	790	<15	✓	-	-	3 x 3
SY89874AU	$\div 1, \div 2, \div 4, \div 8, \div 16$	-	Y	ANY	LVPECL	2	2.5/3.3	2.5	50	570	<15	✓	-	-	3 x 3
SY89875U	$\div 1, \div 2, \div 4, \div 8, \div 16$	-	Y	ANY	LVDS	2	2.5	2	70	870	<15	✓	-	-	3 x 3
SY89876L	$\div 1, \div 2, \div 4, \div 8, \div 16$	-	Y	ANY	LVDS	2	3.3	2	75	870	<15	✓	-	-	3 x 3
SY100S834L	($\div 1, 2, 4$) or ($\div 2, 4, 8$)	✓	N	ECL/PECL/LVPECL	ECL/PECL	3	3.3/5	-	-	1200	50	✓	-	-	16-pin SOIC
SY10/100EL32V	$\div 2$	✓	N	ECL	ECL	1	3.3/5	3	-	510	-	✓	-	-	8-pin SOI
SY10/100EL33/L	$\div 4$	✓	N	ECL	ECL	1	3.3/5	4	-	650	-	✓	-	-	8-pin SOI
SY10/100EL34/L	3 Outputs $\div 2, 4$, or 8	✓	Y	ECL	ECL	3	3.3/5	-	-	1200	-	✓	-	-	16-pin SOIC
SY100E222L	$\div 1/\div 2$ Differential LVPECL/LVPECL Programmable Clock Generator and 1:15 Fanout Buffer	-	Y	LVECL/LVPECL	LVPECL	15	3.3	1.5	122	1570	50	-	-	-	52-pin LQFP

CLOCK AND DATA DISTRIBUTION: Translators												
Product	Description	Channels	Input	Output	Supply Voltage (V)	Output Voltage (V)	Max. Frequency (MHz)	I _{cc} (mA)	Max. Prop Delay (ps)	Max. Within Device Skew (ps)		Packages
PL130-05		Single	Multiple	LVPECL	2.5/3.3	2.5/3.3	1	-	-	-	-	3 x 3
PL130-07		Single	Multiple	LVCMOS	2.5/3.3	2.5/3.3	0.2	-	-	-	-	3 x 3
PL130-09		Single	Multiple	LVDS	2.5/3.3	2.5/3.3	1	-	-	-	-	8-pin SOP
PL130-58		Single	Multiple	LVPECL	2.5/3.3	2.5/3.3	0.26	70	-	-	-	8-pin SOP
SY55851/A		Single	PECL/LVPECL/CML	CML	2.5/3.3	2.5/3.3	3	46	350	-	-	10-pin MSOP
SY55855V		Dual	PECL/LVPECL/CML	LVDS	3.3/5	3.3/5	0.75	80	700	50	-	10-pin MSOP
SY55857L		Dual	ANY	LVPECL	3.3	3.3	2.5	45	400	50	-	10-pin MSOP
SY54016AR		Single	ANY	CML	2.5	1.2/1.8/2.5	2.5	40	420	-	-	2 x 2
SY89222L	2 x 2 version of SY100ELT22	Dual	TTL	PECL	3.3	3.3	0.4	25	600	100	-	2 x 2
SY89321L	2 x 2 version of SY100EPT21	Single	LVPECL	LVTTL	3.3	3.3	0.275	20	250	-	-	2 x 2
SY89322V	2 x 2 version of SY100EPT22	Dual	LVTTL	LVPECL	3.3/5	3.3/5	0.8	25	600	100	-	2 x 2
SY89323L	2 x 2 version of SY100EPT23	Dual	LVPECL	LVTTL	3.3	3.3	0.275	30	250	50	-	2 x 2
SY89327L		Single	ANY	LVPECL	3.3	3.3	2.5	45	400	-	-	2 x 2
SY89328L		Single	LVPECL/LVTTL	LVTTL/LVPECL	3.3	3.3	0.275	40	600	-	-	2 x 2
SY89329V	2 x 2 version of SY100EPT20	Single	LVTTL	LVPECL	3.3/5	3.3/5	0.8	20	600	-	-	2 x 2

CLOCK AND DATA DISTRIBUTION: CrossPoint Switches											
Product	Input	Output	Supply Voltage (V)	Output Voltage (V)	Max. Data (Gbps)	I _{cc} (mA)	Max. Within Device Skew (ps)	Input Mux	Input EQ		Packages
SY56023R	ANY	CML	2.5	1.2/1.8/2.5	6.4	80	15	✓	✓	-	3 x 3
SY58023U	ANY	CML	2.5/3.3	2.5/3.3	10.7	100	20	✓	-	-	3 x 3
SY55859L	CML	CML	3.3	3.3	2.7	160	15	✓	-	-	5 x 5
SY55858U	CML/PECL/LVPECL	CML	2.5/3.3	2.5/3.3	3	150	25	✓	-	-	32-pin TQFP
SY58024U	ANY	CML	2.5/3.3	2.5/3.3	10.7	200	20	✓	-	-	5 x 5
SY89540U	ANY	LVDS	2.5	2.5	3.2	200	30	✓	-	-	6 x 6
SY58040U	ANY	CML	2.5/3.3	2.5/3.3	5	225	25	✓	-	-	6 x 6

CLOCK AND DATA DISTRIBUTION: Multiplexers															
Product	Fanout	Input	Output	Supply Voltage (V)	Output Voltage (V)	Max. Frequency (GHz)	Max. Data Rate (Gbps)	Max. Prop Delay (ps)	Max Within Device Skew (ps)	Icc (mA)	OE	RPE	FSI	EQ	Packages
SY89841U	2:1	ANY	LVDS	2.5	2.5	1.5	-	870	-	85	-	✓	-	-	3 x 3
SY89840U	2:1	ANY	LVPECL	2.5/3.3	2.5/3.3	2	-	880	-	65	-	-	✓	-	3 x 3
SY58609U	2:1	ANY	CML	2.5/3.3	2.5/3.3	2.5	4.25	450	20	50	-	-	✓	-	3 x 3
SY58610U	2:1	ANY	LVPECL	2.5/3.3	2.5/3.3	2.5	3.2	470	20	40	-	-	✓	-	3 x 3
SY58611U	2:1	ANY	LVDS	2.5	2.5	2.5	3.2	470	20	40	-	-	✓	-	3 x 3
SY56017R	2:1	ANY	CML	2.5	1.2/1.8/2.5	3.2	6.4	280	20	55	-	-	-	✓	5 x 5
SY58018U	2:1	ANY	LVPECL	2.5/3.3	2.5/3.3	4	5	260	15	50	-	-	-	-	3 x 3
SY58017U	2:1	ANY	CML	2.5/3.3	2.5/3.3	7	10.7	240	15	55	-	-	-	-	3 x 3
SY58019U	2:1	ANY	RS-LVPECL	2.5/3.3	2.5/3.3	7	10.7	240	15	55	-	-	-	-	3 x 3
SY89843U	2:2	ANY	LVPECL	2.5/3.3	2.5/3.3	2	-	880	20	70	-	✓	✓	-	4 x 4
SY89852U	2:2	ANY	LVPECL	2.5/3.3	2.5/3.3	2.5	2.5	340	-	23	-	-	-	-	3 x 3
SY89853U	Dual 2:1	ANY	LVPECL	2.5/3.3	2.5/3.3	2.5	2.5	360	20	65	-	-	-	-	5 x 5
SY89543L	Dual 2:1	ANY	LVDS	3.3	3.3	3	3.2	510	25	66	-	-	-	-	5 x 5
SY58026U	Dual 2:1	ANY	LVPECL	2.5/3.3	2.5/3.3	6	5	310	15	100	-	-	-	-	5 x 5
SY89545L	4:1	ANY	LVDS	3.3	3.3	3	3.2	600	25	44	-	-	-	-	5 x 5
SY89544U	4:1	ANY	LVDS	2.5	2.5	4	3.2	510	20	50	-	-	-	-	5 x 5
SY56028XR	4:1	ANY	CML	2.5	1.2/1.8/2.5	4.5	6.4	360	15	110	-	-	-	✓	5 x 5
SY56572XR	4:1	ANY	CML	2.5	1.2/1.8/2.5	4.5	6.4	360	15	110	-	-	-	✓	5 x 5
SY89855U	4:2	ANY	LVPECL	2.5/3.3	2.5/3.3	2.5	2.5	410	20	65	-	-	-	-	5 x 5
SY58029U	4:2	ANY	LVPECL	2.5/3.3	2.5/3.3	4	5	500	15	110	-	-	-	-	5 x 5
SY89547L	4:2	ANY	LVDS	3.3	3.3	4	3.2	540	20	68	-	-	-	-	5 x 5
SY58028U	4:2	ANY	CML	2.5/3.3	2.5/3.3	7	10.7	340	20	120	-	-	-	-	5 x 5
SY58030U	4:2	ANY	RS-LVPECL	2.5/3.3	2.5/3.3	7	10.7	340	20	120	-	-	-	-	5 x 5
SY89859U	8:2	ANY	LVPECL	2.5/3.3	2.5/3.3	2.5	2.5	640	20	60	-	-	-	-	7 x 7
SY58037U	8:2	ANY	CML	2.5/3.3	2.5/3.3	4	5	450	15	145	-	-	-	-	7 x 7
SY58038U	8:2	ANY	LVPECL	2.5/3.3	2.5/3.3	5	4.5	500	15	120	-	-	-	-	7 x 7
SY10/100EL57	4:1	ECL	ECL	5	5	-	-	580	50	-	-	-	-	-	16-pin SOIC
SY100EL56V	Dual 2:1	ECL	ECL	3.3/5	3.3/5	-	-	440	80	-	-	-	-	-	20-pin SOIC
SY100EL57L	4:1	ECL	ECL	3.3	3.3	-	-	580	50	-	-	-	-	-	16-pin SOIC
SY100EP56V	2:1	PECL/ECL	PECL/ECL	3.3/5	3.3/5	3	-	500	100	50	-	-	-	-	20-pin TSSOP
SY100EP57V	4:1	PECL/ECL	PECL/ECL	3.3/5	3.3/5	3	-	520	-	50	-	-	-	-	20-pin TSSOP

CLOCK AND DATA DISTRIBUTION: Receivers/Buffers/Drivers															
Product	Description	Input	Output	Supply Voltage (V)	Output Voltage (V)	Max. Data Rate (Gbps)	Max. Frequency (GHz)	Icc (mA)	OE	RPE	FSI	Input Mux	Input EQ	Pre-Emph	Packages
SY89250V	Enhanced Diff Receiver	ECL/PECL	ECL/PECL	3.3/5	3.3/5	-	-	46	-	-	-	-	-	-	2 x 2
SY58605U	Line Driver/Receiver	ANY	LVDS	2.5	2.5	3.2	2	50	-	-	✓	-	-	-	2 x 2
SY89835U	Buffer	LVDS	LVDS	2.5	2.5	3.2	2	70	-	-	✓	-	-	-	2 x 2
SY54016R	Low Voltage CML Translator	ANY	CML	2.5	1.2/1.8	3.2	2.5	19	-	-	✓	-	-	-	2 x 2
SY58604U	Line/Driver Receiver	ANY	LVPECL	2.5/3.3	2.5/3.3	3.2	2.5	45	-	-	✓	-	-	-	2 x 2
SY89850U	Low Power	CML/PECL/LVDS	LVPECL	2.5/3.3	2.5/3.3	3.2	4	30	-	-	-	-	-	-	2 x 2
SY58603U	Line Driver/Receiver	ANY	CML	2.5/3.3	2.5/3.3	4.25	2.5	50	-	-	✓	-	-	-	2 x 2
SY58601U	Line Driver/Receiver	ANY	LVPECL	2.5/3.3	2.5/3.3	5	5	60	-	-	-	-	-	-	2 x 2
SY58016L	Line Driver/Receiver	CML/PECL	CML	3.3	3.3	10.7	7	75	-	-	-	-	-	-	3 x 3
SY58600U	Line Driver/Receiver	ANY	CML	2.5/3.3	2.5/3.3	10.7	7	65	-	-	-	-	-	-	2 x 2
SY89251V	Equivalent to SY100EL16VC	ECL/LVPECL	ECL/LVPECL	3.3/5	3.3/5	-	-	26	-	-	-	-	-	-	2 x 2
SY10/100EL16V	Differential Receiver	ECL/LVPECL	ECL/LVPECL	3.3/5	3.3/5	-	-	26	-	-	-	-	-	-	8-pin SOIC, 8-pin MSOP
SY10/100EL16VS	Variable Output Swing Receiver	ECL/LVPECL	ECL/LVPECL	3.3/5	3.3/5	-	-	26	-	-	-	-	-	-	8-pin SOIC, 8-pin MSOP
SY10/100EL16VA-VF	Enhanced Differential Receiver	ECL/LVPECL	ECL/LVPECL	3.3/5	3.3/5	-	-	46	-	-	-	-	-	-	8-pin SOIC, 8-pin MSOP
SY100EL17V	Quad Differential Receiver	ECL/LVPECL	ECL/LVPECL	3.3/5	3.3/5	-	-	26	-	-	-	-	-	-	20-pin SOIC
SY10EP89V	3 GHz Coaxial Cable Driver	ECL	ECL	3.3/5	3.3/5	-	3	39	-	-	-	-	-	-	8-pin SOIC, 8-pin MSOP
SY10EP16V	High Speed Differential Receiver	ECL/LVPECL	ECL/LVPECL	3.3/5	3.3/5	-	3	42	-	-	-	-	-	-	8-pin SOIC, 8-pin MSOP

CLOCK AND DATA DISTRIBUTION: Backplane Cable Management											
Product	Description		Input	Output	Supply Voltage (V)	Output Voltage (V)	Icc (mA)	OE	EQ	Pre-Emph	Packages
SY58620L	Integrated Loopback		ANY	CML	3.3	3.3	4.25	-	-	-	4 x 4
SY58626L	Integrated Loopback		ANY	CML	3.3	3.3	6.4	-	-	✓	5 x 5

CLOCK AND DATA DISTRIBUTION: Skew Management												
Product	Description		Input	Output	Supply Voltage (V)	Output Voltage (V)	Max. Frequency (GHz)	Max. Data Rate (Gbps)	Delay Resolution (ps/step)	Icc (mA)	Max. Within Device Skew (ps)	Packages
SY89295U	Programmable Delay.		LVPECL/LVTTL	LVPECL	2.5/3.3	2.5/3.3	1.5	-	10	220	25	32-pin TQFP, 5 x 5
SY89296U	Delay with Fine Tune Control.		LVPECL/LVTTL	LVPECL	2.5/3.3	2.5/3.3	1.5	-	10	220	25	32-pin TQFP, 5 x 5
SY89297U	Dual Channel Programmable Delay		ANY	CML	2.5	2.5	1.6	3.2	5	250	55	24-pin QFN 4 x 4
SY5856U	Dual Channel Programmable Delay		CML	CML	2.5/3.3	2.5/3.3	2.5	5	10	140	50	32-pin tQFP
SY100EP196V	Programmable Delay with Fine Tune Control		ANY	ECL	3.3/5	3.3/5	2.5	-	-	150	25	32-pin TQFP, 5 x 5

CLOCK AND DATA DISTRIBUTION: Registers and Flip Flops											
Product	Description			Channel	Supply Voltage (V)			Max. Frequency (GHz)		Packages	
SY100EL29V	Data and Clock D Flip-Flop with Set and Reset			Dual	3.3/5			1.1		20-pin SOIC	
SY55852U	D Flip-Flop			Single	2.5/3.3/5			2.5		10-pin MSOP	
SY10EP52V	Differential Data and Clock D Flip-Flop			Single	3.3/5			4		8-pin SOIC	
SY10EP51V	D Flip-Flop with Reset and Differential Clock			Single	3.3/5			3		8-pin SOIC	

REAL-TIME CLOCK/CALENDAR (RTCC)														
Bus	Product	Pins	Timing Features				Memory ⁽¹⁾			Power		Unique Features ⁽²⁾	5 ku Pricing [†]	Packages
			Digital Trimming (Adj./Range)	Alarm Settings	WDT	Outputs	SRAM (Bytes)	EERPOM (Kbits)	Protected EEPROM (bits)	Min Vcc	Min I _{BAT}			
I ² C	MCP7940M	8	±127 ppm	1 sec.	-	IRQ/CLK	64	0	0	1.8	-	-	\$0.46	SOIC (SN), TSSOP (ST), MSOP (MS), TDFN (MNY), PDIP (P)
	MCP7940N	8	±127 ppm	1 sec.	-	IRQ/CLK	64	0	0	1.8	1.3	Power Fail Timestamp	\$0.59	SOIC (SN), TSSOP (ST), MSOP (MS), TDFN (MNY), PDIP (P)
	MCP7940X	8	±127 ppm	1 sec.	-	IRQ/CLK	64	0	64	1.8	1.3	Power Fail Timestamp	\$0.66	SOIC (SN), TSSOP (ST), MSOP (MS), TDFN (MNY)
	MCP7941X	8	±127 ppm	1 sec.	-	IRQ/CLK	64	1	64	1.8	1.3	Power Fail Timestamp	\$0.72	SOIC (SN), TSSOP (ST), MSOP (MS), TDFN (MNY)
SPI	MCP7951X	10	±255 ppm	0.01 sec.	-	IRQ/CLK	64	1	128	1.8	1.3	Power Fail Timestamp	\$0.90	SOIC (SL), TSSOP (ST)
	MCP7952X	10	±255 ppm	0.01 sec.	-	IRQ/CLK	64	2	128	1.8	1.3	Power Fail Timestamp	\$0.96	MSOP (MS), TDFN (MN)
	MCP795W1X	14	±255 ppm	0.01 sec.	✓	1. CLK 2. IRQ 3. WDT RST	64	1	128	1.8	1.3	Power Fail Timestamp, Event Detects (x 2)	\$1.22	SOIC (SL), TSSOP (ST)
	MCP795W2X	14	±255 ppm	0.01 sec.	✓	1. CLK 2. IRQ 3. WDT RST	64	2	128	1.8	1.3	Power Fail Timestamp, Event Detects (x 2)	\$1.28	SOIC (SL), TSSOP (ST)

Note 1: All part numbers with an "X" have three protected EEPROM programming options: [0 = Blank ID], [1 = EUI-48™ MAC Address], [2 = EUI-64™ MAC Address]

2: The Power Fail Timestamp in all RTCCs occur at Battery Switchover.

SERIAL MEMORY PRODUCTS																
Bus	Product	Released (R) Not Released (NR)	Density	Organization	Max. Clock Frequency	Operating Voltage	Temperature Range	E/W Endurance (Minimum)	Data Retention (Minimum)	Max. Write Speeds	Max. Standby Current (@ 5.5V, 85°C)	Write Protect	Special/Unique Features			Packages
													Hardware	Software	Protected Array Size	5 ku Pricing [†]
Serial SRAM																
SPI	23X640	R	64 Kb	x 8	20 MHz	1.5V~1.95V, 2.7V~3.6V	-40°C to +125°C	∞	Volatile	0 ms	4 μA	-	-	\$0.51	Zero write cycle time, Infinite endurance, Volatile RAM, Byte/page/sequential read-write modes	PDIP (P), SOIC (SN), TSSOP (ST)
	23X256	R	256 Kb	x 8	20 MHz	1.5V~1.95V, 2.7V~3.6V	-40°C to +125°C	∞	Volatile	0 ms	4 μA	-	-	\$0.87	Zero write cycle time, Infinite endurance, Volatile RAM, Byte/page/sequential read-write modes	PDIP (P), SOIC (SN), TSSOP (ST)
	23XX512	R	512 Kb	x 8	20 x 4 MHz	1.7V~2.2V, 2.5V~5.5V	-40°C to +125°C	∞	Volatile	0 ms	4 μA	-	-	\$1.24	Fast Speed: Quad SPI available (80 MHz); Infinite endurance; Zero write times, 5V capable	SOIC (SN), PDIP (P), TSSOP (ST)
	23XX1024	R	1024 Kb	x 8	20 x 4 MHz	1.7V~2.2V, 2.5V~5.5V	-40°C to +125°C	∞	Volatile	0 ms	4 μA	-	-	\$1.73	Fast Speed: Quad SPI available (80 MHz); Infinite endurance; Zero write times, 5V capable	SOIC (SN), PDIP (P), TSSOP (ST)

1: All devices are Pb-Free and RoHS compliant.

2: ESD protection > 4kV (HBM); > 400V (MM) on all pins.

3: Write Protect (WP); W = Whole Array, ½ = Half Array, ¼ = Quarter Array.

4: Factory program and unique ID options available.

5: Die and wafer options available on all devices.

SERIAL MEMORY PRODUCTS

Bus	Product	Released (R) Not Released (NR)	Density	Organization	Max. Clock Frequency	Operating Voltage	Temperature Range	E/W Endurance (Minimum)	Data Retention (Minimum)	Max. Write Speeds	Max. Standby Current (@ 5.5V, 85°C)	Write Protect	Protected Array Size	5 ku Pricing†	Special/Unique Features	Packages	
Serial NVSRAM																	
SPI	23LCV512	R	512 Kb	x 8	20 x 2 MHz	-	-40°C to +125°C	∞	20 Years via battery	0 ms	4 μA	-	-	\$1.40	Battery-backed non-volatile SRAM; Infinite endurance; Zero write times	SOIC (SN), PDIP (P), TSSOP (ST)	
	23LCV1024	R	1024 Kb	x 8	20 x 2 MHz	-	-40°C to +125°C	∞	20 Years via battery	0 ms	4 μA	-	-	\$1.98	Battery backed non-volatile SRAM; Infinite endurance; Zero write times	SOIC (SN), PDIP (P), TSSOP (ST)	
Serial EEPROM																	
UNI/O® Bus	11XX010	R	1 Kb	x 8	100 kHz	1.8V–5.5V	-40°C to +125°C	1M	200 Years	5 ms	1 μA	-	✓	W, ½, ¼	\$0.23	Single I/O for all clock, data, control and write protection	PDIP (P), SOIC (SN), MSOP (MS), DFN (MNY), TO-92 (TO), 3-SOT-23 (TT), WLCSP (CS)
	11XX020/E48/E64/UID	R	2 Kb	x 8	100 kHz	1.8V–5.5V	-40°C to +125°C	1M	200 Years	5 ms	1 μA	-	✓	W, ½, ¼	\$0.25	Single I/O for all clock, data, control and write protection, Unique EUI-48™/EUI-64™ MAC address and unique ID options available	PDIP (P), SOIC (SN), MSOP (MS), DFN (MNY), TO-92 (TO), 3-SOT-23 (TT), WLCSP (CS)
	11XX040	R	4 Kb	x 8	100 kHz	1.8V–5.5V	-40°C to +125°C	1M	200 Years	5 ms	1 μA	-	✓	W, ½, ¼	\$0.26	Single I/O for all clock, data, control and write protection	PDIP (P), SOIC (SN), MSOP (MS), DFN (MNY), TO-92 (TO), 3-SOT-23 (TT), WLCSP (CS)
	11XX080	R	8 Kb	x 8	100 kHz	1.8V–5.5V	-40°C to +125°C	1M	200 Years	5 ms	1 μA	-	✓	W, ½, ¼	\$0.30	Single I/O for all clock, data, control and write protection	PDIP (P), SOIC (SN), MSOP (MS), DFN (MNY), TO-92 (TO), 3-SOT-23 (TT), WLCSP (CS)
	11XX160	R	16 Kb	x 8	100 kHz	1.8V–5.5V	-40°C to +125°C	1M	200 Years	5 ms	1 μA	-	✓	W, ½, ¼	\$0.33	Single I/O for all clock, data, control and write protection	PDIP (P), SOIC (SN), MSOP (MS), DFN (MNY), TO-92 (TO), 3-SOT-23 (TT), WLCSP (CS)
I²C	24XX00	R	128 b	x 8	400 kHz	1.7V–5.5V	-40°C to +125°C	1M	200 Years	4 ms	1 μA	-	-	-	\$0.17	100 kHz operation from 1.7V to 4.5V	PDIP (P), SOIC (SN), TSSOP (ST), DFN (MNY), 5-SOT-23 (OT)
	24XX01/014	R	1 Kb	x 8	400 kHz	1.7V–5.5V 1.5V–3.6V	-40°C to +150°C	1M	200 Years	5 ms	1 μA	✓	-	W, ½	\$0.18	Address pin option: connect up to 8 devices on bus, Very low voltage option	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY), 5-SOT-23 (OT), SC70 (LT)
	24XX02/024/E48/E64/UID	R	2 Kb	x 8	400 kHz	1.7V–5.5V 1.5V–3.6V	-40°C to +125°C	1M	200 Years	5 ms	1 μA	✓	-	W, ½	\$0.20	Address pin option: connect up to 8 devices on bus, Very low voltage option, Unique EUI-48/EUI-64 MAC address and unique ID options available	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY), 5-SOT-23 (OT), SC70 (LT)
	34XX02	R	2 Kb	x 8	1 MHz	1.7V–5.5V 1.5V–3.6V	-40°C to +125°C	1M	200 Years	5 ms	1 μA	✓	✓	W, ½	\$0.18	1 MHz @ 2.5V, Permanent and resettable software WP – DIMM-DDR2/3	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY), 6-SOT-23 (OT)
	34XX04	R	4 Kb	x 8	1 MHz	1.7V–5.5V	-40°C to +125°C	1M	200 Years	5 ms	1 μA	✓	✓	W, ½	\$0.21	SPD for DRAM (DDR4) modules, SMBus compatible bus time out	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MUY, MNY)
	24XX04/44	R	4 Kb	x 8	400 kHz	1.7V–5.5V	-40°C to +125°C	1M	200 Years	5 ms	1 μA	✓	-	W, ½	\$0.21	400 kHz @ 2.5V, 16 byte page write buffer, No address pins	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY), 5-SOT-23 (OT), WLCSP (CS)
	24XX08	R	8 Kb	x 8	400 kHz	1.7V–5.5V	-40°C to +125°C	1M	200 Years	5 ms	1 μA	✓	-	W, ½	\$0.23	400 kHz @ 2.5V, 16 byte page write buffer, No address pins	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY), 5-SOT-23 (OT),
	24XX16	R	16 Kb	x 8	400 kHz	1.7V–5.5V	-40°C to +125°C	1M	200 Years	5 ms	1 μA	✓	-	W, ½	\$0.25	400 kHz @ 2.5V, 16 byte page write buffer, No address pins	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY), 5-SOT-23 (OT), WLCSP (CS)
	24XX32A	R	32 Kb	x 8	400 kHz	1.7V–5.5V	-40°C to +125°C	1M	200 Years	5 ms	1 μA	✓	-	W, ¼	\$0.31	400 kHz @ 2.5V, 32 byte page write buffer, connect up to 8 devices on bus	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY), 5-SOT-23 (OT), WLCSP (CS)
	24XX64/65	R	64 Kb	x 8	1 MHz	1.7V–5.5V	-40°C to +125°C	1M, 10M	200 Years	5 ms	1 μA	✓	-	W, ¼	\$0.38	1 MHz @ 2.5V, 32/64 byte page, Relocatable 4 Kb block with 10M cycles endurance	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY), 5-SOT-23 (OT), WLCSP (CS)
	24XX128	R	128 Kb	x 8	1 MHz	1.7V–5.5V	-40°C to +125°C	1M	200 Years	5 ms	1 μA	✓	-	W	\$0.54	1 MHz @ 2.5V, 64 byte page, Connect up to 8 devices on bus	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY), WLCSP (CS)
	24XX256/UID	R	256 Kb	x 8	1 MHz	1.7V–5.5V	-40°C to +125°C	1M	200 Years	5 ms	1 μA	✓	-	W	\$0.83	1 MHz @ 2.5V, 64 byte page, Connect up to 8 devices on bus, EUI-48, EUI-64 and unique ID options available	PDIP (P), SOIC (SN), TSSOP (ST), SOU (SM), MSOP (MS), DFN (MF), WLCSP (CS), TDIN (MNY)
	24XX512	R	512 Kb	x 8	1 MHz	1.7V–5.5V	-40°C to +125°C	1M	200 Years	5 ms	1 μA	✓	-	W	\$1.50	1 MHz @ 2.5V, 128 byte page, Connect up to 8 devices on bus	PDIP (P), SOIC (SN), TSSOP (ST), DFN (MF), SOU (SM), WLCSP (CS)
	24XX1025/26	R	1 Mb	x 8	1 MHz	1.7V–5.5V	-40°C to +125°C	1M	200 Years	5 ms	5 μA	✓	-	W	\$3.14	1 MHz @ 2.5V, 128 byte page, Connect up to 4 devices on bus	PDIP (P), SOIC (SN), SOU (SM)
	24XX1024	R	1 Mb	x 8	1 MHz	2.5V–5.5V	-40°C to +125°C	1M	200 Years	5 ms	5 μA	✓	-	W	-	1 MHz @ 2.5V, 256 byte page, Connect up to 4 devices on bus	PDIP (P), SOIC (SN), TSSOP (ST), DFN (MF), SOU (SM)
Microwire	93XX46A/B/C/E48	R	1 Kb	x 8/x 16	3 MHz	1.8V–5.5V	-40°C to +125°C	1M	200 Years	6 ms	1 μA	-	-	-	\$0.18	ORG pin to select word size on 46C version; EUI-48 option available	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY), 6-SOT-23 (OT)
	93XX56A/B/C	R	2 Kb	x 8/x 16	3 MHz	1.8V–5.5V	-40°C to +125°C	1M	200 Years	6 ms	1 μA	-	-	-	\$0.20	ORG pin to select word size in 56C version	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY), 6-SOT-23 (OT)
	93XX66A/B/C	R	4 Kb	x 8/x 16	3 MHz	1.8V–5.5V	-40°C to +125°C	1M	200 Years	6 ms	1 μA	-	-	-	\$0.21	ORG pin to select word size in 66C version	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY), 6-SOT-23 (OT)
	93XX76A/B/C	R	8 Kb	x 8/x 16	3 MHz	1.8V–5.5V	-40°C to +125°C	1M	200 Years	6 ms	1 μA	✓	-	W	\$0.30	ORG pin to select word size in 76C version	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY), 6-SOT-23 (OT)
	93XX86A/B/C	R	16 Kb	x 8/x 16	3 MHz	1.8V–5.5V	-40°C to +125°C	1M	200 Years	6 ms	1 μA	✓	-	W	\$0.33	ORG pin to select word size in 86C version	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY), 6-SOT-23 (OT)

1: All devices are Pb-Free and RoHS compliant.

2: ESD protection > 4kV (HBM); > 400V (MM) on all pins.

3: Write Protect (WP); W = Whole Array, ½ = Half Array, ¼ = Quarter Array.

4: Factory program and unique ID options available.

5: Die and wafer options available on all devices.

† Pricing subject to change; please contact your Microchip representative for most current pricing.

SERIAL MEMORY PRODUCTS																	
Bus	Product	Released (R) Not Released (NR)	Density	Organization	Max. Clock Frequency	Operating Voltage	Temperature Range	E/W Endurance (Minimum)	Data Retention (Minimum)	Max. Write Speeds	Max. Standby Current @ 5.5V, 85°C	Write Protect	Protected Array Size	5 ku Pricing†	Special/Unique Features	Packages	
Serial EEPROM (Cont.)																	
SPI	25XX010A	R	1 Kb	x 8	10 MHz	1.8V-5.5V	-40°C to +150°C	1M	200 Years	5 ms	1 µA	✓	✓	W, ½, ¼	\$0.30	5 MHz @ 2.5V, Status register, 16 byte page	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY), 6-SOT-23 (OT)
	25XX020A/ E48/E64/UID	R	2 Kb	x 8	10 MHz	1.8V-5.5V	-40°C to +150°C	1M	200 Years	5 ms	1 µA	✓	✓	W, ½, ¼	\$0.31	5 MHz @ 2.5V, Status register, 16 byte page, Unique EUI-48™/EUI-64™ MAC address and unique ID options available	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY), 6-SOT-23 (OT)
	25XX040A	R	4 Kb	x 8	10 MHz	1.8V-5.5V	-40°C to +150°C	1M	200 Years	5 ms	1 µA	✓	✓	W, ½, ¼	\$0.33	5 MHz @ 2.5V, Status register, 16 byte page	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY), 6-SOT-23 (OT)
	25XX080C/D	R	8 Kb	x 8	10 MHz	1.8V-5.5V	-40°C to +150°C	1M	200 Years	5 ms	1 µA	✓	✓	W, ½, ¼	\$0.40	16/32 byte page, 5 MHz @ 2.5V, Status register	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY)
	25XX160C/D	R	16 Kb	x 8	10 MHz	1.8V-5.5V	-40°C to +150°C	1M	200 Years	5 ms	1 µA	✓	✓	W, ½, ¼	\$0.41	16/32 byte page, 5 MHz @ 2.5V, Status register	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY)
	25XX320A	R	32 Kb	x 8	10 MHz	1.8V-5.5V	-40°C to +150°C	1M	200 Years	5 ms	1 µA	✓	✓	W, ½, ¼	\$0.45	5 MHz @ 2.5V, Status register, 32 byte page	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY)
	25XX640A	R	64 Kb	x 8	10 MHz	1.8V-5.5V	-40°C to +150°C	1M	200 Years	5 ms	1 µA	✓	✓	W, ½, ¼	\$0.46	5 MHz @ 2.5V, Status register, 32 byte page	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY, MF)
	25XX128	R	128 Kb	x 8	10 MHz	1.8V-5.5V	-40°C to +150°C	1M	200 Years	5 ms	1 µA	✓	✓	W, ½, ¼	\$0.74	5 MHz @ 2.5V, Status register, 64 byte page	PDIP (P), SOIC (SN), TSSOP (ST), DFN (MF)
	25XX256	R	256 Kb	x 8	10 MHz	1.8V-5.5V	-40°C to +150°C	1M	200 Years	5 ms	1 µA	✓	✓	W, ½, ¼	\$1.01	5 MHz @ 2.5V, Status register, 64 byte page	PDIP (P), SOIC (SN), TSSOP (ST), DFN (MF), SOU (SM)
	25XX512	R	512 Kb	x 8	20 MHz	1.8V-5.5V	-40°C to +125°C	1M	200 Years	5 ms	10 µA	✓	✓	W, ½, ¼	\$1.53	10 MHz @ 2.5V, Deep power down, Status register, Page/sector/chip erase	PDIP (P), SOIC (SN), DFN (MF), SOU (SM)
	25XX1024	R	1 Mb	x 8	20 MHz	1.8V-5.5V	-40°C to +125°C	1M	200 Years	6 ms	12 µA	✓	✓	W, ½, ¼	\$2.59	10 MHz @ 2.5V, Deep power down, Status register, Page/sector/chip erase	PDIP (P), DFN (MF), SOU (SM)
EEPROM																	
PC	47X04	NR	4 Kb	x 8	1 MHz	2.7-3.6V 4.5-5.5V	-40°C to +125°C	∞	200 Years	0 ms	40 µA	-	✓	W to 1/64	\$0.47	Unlimited endurance to SRAM, Data automatically backed up to EEPROM and power down (with small external capacitor)	SOIC (SN), PDIP (P), TSSOP (ST)
	47X16	NR	16 Kb	x 8	1 MHz	2.7-3.6V 4.5-5.5V	-40°C to +125°C	∞	200 Years	0 ms	40 µA	-	✓	W to 1/64	\$0.54	Unlimited endurance to SRAM, Data automatically backed up to EEPROM and at power down (with small external capacitor)	SOIC (SN), PDIP (P), TSSOP (ST)

1: All devices are Pb-Free and RoHS compliant.

2: ESD protection > 4kV (HBM); > 400V (MM) on all pins.

3: Write Protect (WP); W = Whole Array, ½ = Half Array, ¼ = Quarter Array.

4: Factory program and unique ID options available.

5: Die and wafer options available on all devices.

† Pricing subject to change; please contact your Microchip representative for most current pricing.

Bus	Product	Released (R) Not Released (NR)	Density	Organization	Max. Clock Frequency	Operating Voltage	Temperature Range	E/W Endurance (Minimum)	Data Retention (Minimum)	Write Speed (Typical)	Max. Standby Current	Write Protect	Protected Array Size	Special/Unique Features	Packages*	
x1	SST25VF512A	R	512 Kb	64K x 8	33 MHz	2.7-3.6V	0°C to 70°C -40°C to +85°C -20 to +85°C	100,000 cycles (typical)	100 years	14 µs (Byte Program)	8 µA	✓	✓	Various	Auto address increment programming, Fast read, program and erase	8L-SOIC, 8C-WSON
	SST25VF010A	R	1 Mb	128K x 8	33 MHz	2.7-3.6V	0°C to 70°C -40°C to +85°C -20 to +85°C	100,000 cycles (typical)	100 years	14 µs (Byte Program)	8 µA	✓	✓	Various	Auto address increment programming, Fast read, program and erase	8L-SOIC, 8C-WSON, 8B-XFBGA
	SST25VF020B	R	2 Mb	256K x 8	80 MHz	2.7-3.6V	0°C to 70°C -40°C to +85°C	100,000 cycles (typical)	100 years	7 µs (Word Program)	5 µA	✓	✓	Various	Auto address increment programming, Fast read, program and erase	8L-SOIC, 8C-WSON
	SST25WF020A	R	2 Mb	256K x 8	40 MHz	1.65-1.95V	0°C to 70°C -40°C to +85°C	100,000 cycles (typical)	20 years	3 ms (Page Program)	10 µA	✓	✓	Various	Single-input page program, Fast read, program and erase	8L-SOIC, 8C-WSON
	SST25VF040B	R	4 Mb	512K x 8	40 MHz	2.7-3.6V	-40°C to +85°C	100,000 cycles (typical)	100 years	7 µs (Word Program)	5 µA	✓	✓	Various	Auto address increment programming, Fast read, program and erase	8L-SOIC, 8C-WSON, 8B-XFBGA
	SST25VF080B	R	8 Mb	1M x 8	40 MHz	2.7-3.6V	-40°C to +85°C	100,000 cycles (typical)	100 years	7 µs (Word Program)	5 µA	✓	✓	Various	Auto address increment programming, Fast read, program and erase	8L-SOIC, 8C-WSON, 8B-XFBGA
	SST25VF016B	R	16 Mb	2M x 8	50 MHz	2.7-3.6V	-40°C to +85°C	100,000 cycles (typical)	100 years	7 µs (Word Program)	5 µA	✓	✓	Various	Auto address increment programming, Fast read, program and erase	8L-SOIC, 8C-WSON
x1, x2	SST25WF040B	R	4 Mb	512K x 8	40 MHz	1.65-1.95V	0°C to 70°C -40°C to +85°C	100,000 cycles (typical)	20 years	1 ms (Page Program)	10 µA	✓	✓	Various	Dual output and dual I/O read, Single- and dual-input page program, Fast read, program and erase	8L-SOIC, 8C-WSON
	SST25WF080B	R	8 Mb	1M x 8	40 MHz	1.65-1.95V	0°C to 70°C -40°C to +85°C	100,000 cycles (typical)	20 years	1 ms (Page Program)	10 µA	✓	✓	Various	Dual output and dual I/O read, Single- and dual-input page program, Fast read, program and erase	8L-SOIC, 8C-WSON

*Only standard packages are listed here. Please inquire with your local sales office for devices in die form or in chip-scale packages.

SERIAL FLASH MEMORY

Bus	Product											Special/Unique Features	Packages*		
		Released (R) Not Released (NR)	Density	Organization	Max. Clock Frequency	Operating Voltage	Temperature Range	E/W Endurance (Minimum)	Data Retention (Minimum)	Write Speed (Typical)	Max. Standby Current	Write Protect			
x4	SST26VF016	R	16 Mb	2M x 8	80 MHz	2.7–3.6V	-40°C to +85°C	100,000 cycles (minimum)	100 years	1 ms (Page Program)	15 µA	✓	✓	Serial Quad I/O™ (SQI™) read/program/erase, Burst read, Index jump feature, Individual block read and write protection, Fast read, program and erase	8L-SOIC, 8C-WSON
	SST26VF032	R	32 Mb	4M x 8	80 MHz	2.7–3.6V	-40°C to +85°C	100,000 cycles (minimum)	100 years	1 ms (Page Program)	15 µA	✓	✓	Serial Quad I/O™ (SQI™) read/program/erase, Burst read, Index jump feature, Individual block read and write protection, Fast read, program and erase	8L-SOIC, 8C-WSON
x1, x2, x4	SST26WF080B/BA	R	8 Mb	1M x 8	104 MHz	1.65–1.95V	-40°C to +85°C	100,000 cycles (minimum)	100 years	1 ms (Page Program)	40 µA	✓	✓	x1, x2, x4 read, Single-and quad-input page program, Burst read, Write suspend, Individual block read and write protection, Fast read, program and erase	8L-SOIC, 8C-WSON
	SST26WF016B/BA	R	16 Mb	2M x 8	104 MHz	1.65–1.95V	-40°C to +85°C	100,000 cycles (minimum)	100 years	1 ms (Page Program)	40 µA	✓	✓	x1, x2, x4 read, Single-and quad-input page program, Burst read, Write suspend, Individual block read and write protection, Fast read, program and erase	8L-SOIC, 8C-WSON
	SST26VF016B	R	16 Mb	2M x 8	104 MHz	2.3–3.6V	-40°C to +105°C	100,000 cycles (minimum)	100 years	1 ms (Page Program)	45 µA	✓	✓	x1, x2, x4 read, Single-and quad-input page program, Burst read, Write suspend, Individual block read and write protection, Fast read, program and erase	8L-SOIC, 8C-WSON
	SST26VF032B/BA	R	32 Mb	4M x 8	104 MHz	2.3–3.6V	-40°C to +105°C	100,000 cycles (minimum)	100 years	1 ms (Page Program)	45 µA	✓	✓	x1, x2, x4 read, Single-and quad-input page program, Burst read, Write suspend, Individual block read and write protection, Fast read, program and erase	8L-SOIC, 8C-WSON
	SST26VF064B/BA	R	64 Mb	8M x 8	104 MHz	2.3–3.6V	-40°C to +105°C	100,000 cycles (minimum)	100 years	1 ms (Page Program)	45 µA	✓	✓	x1, x2, x4 read, Single-and quad-input page program, Burst read, Write suspend, Individual block read and write protection, Fast read, program and erase	8L-SOIC, 8C-WSON

*Only standard packages are listed here. Please inquire with your local sales office for devices in die form or in chip-scale packages.

LPC FIRMWARE FLASH/FIRMWARE HUB FLASH MEMORY

Bus	Product											Special/Unique Features	Packages		
		Released (R) Not Released (NR)	Density	Organization	Max. Clock Frequency	Operating Voltage	Temperature Range	E/W Endurance (Minimum)	Data Retention (Minimum)	Write Speed (Typical)	Max. Standby Current	Write Protect			
x4	SST49LF008A	R	8 Mb	1M x 8	33 MHz	3.0–3.6V	0°C to 70°C	100,000 cycles (minimum)	100 years	14 µs (Byte Program)	14 µA	✓	✓	Firmware Hub (FWH) device for PC-BIOS application, provide protection for the storage and update of code and data	32L-PLCC, 32L-TSOP
	SST49LF016C	R	16 Mb	2M x 8	33 MHz	3.0–3.6V	0°C to 70°C	100,000 cycles (minimum)	100 years	14 µs (Byte Program)	14 µA	✓	✓	Firmware Hub (FWH) device for PC-BIOS application, provide protection for the storage and update of code and data	32L-PLCC, 32L-TSOP
	SST49LF080A	R	8 Mb	1M x 8	33 MHz	3.0–3.6V	0°C to 70°C	100,000 cycles (minimum)	100 years	14 µs (Byte Program)	14 µA	✓	✓	LPC Flash devices comply with the standard Intel Low Pin Count (LPC) Interface Specification 1.1, provide protection for the storage and update of code and data	32L-PLCC, 32L-TSOP
	SST49LF160C	R	16 Mb	2M x 8	33 MHz	3.0–3.6V	0°C to 70°C	100,000 cycles (minimum)	100 years	14 µs (Byte Program)	14 µA	✓	✓	LPC Flash devices comply with the standard Intel Low Pin Count (LPC) Interface Specification 1.1, provide protection for the storage and update of code and data	32L-PLCC

PARALLEL FLASH MEMORY

Bus	Product*											Special/Unique Features	Packages**		
		Released (R) Not Released (NR)	Density	Organization	Access Time	Operating Voltage	Temperature Range	E/W Endurance (Minimum)	Data Retention (Minimum)	Write Speed (Typical)	Typ. Standby Current	Write Protect			
x8	SST39SF010A	R	1 Mb	128K x 8	70 ns	4.5–5.5V	0°C to 70°C -40°C to +85°C	100,000 cycles	100 years	14 µs (Byte Program)	30 µA	–	N/A	Fast read, program and erase; Low power; Small erase sector	32L-PLCC, 32L-PDIP, 32L-TSOP
	SST39LF010	R	1 Mb	512K x 8	55 ns	3.0–3.6V	0°C to 70°C	100,000 cycles	100 years	14 µs (Byte Program)	1 µA	–	N/A	Fast read, program and erase; Low power; Small erase sector	48B-TFBGA, 32L-TSOP, 32L-PLCC
	SST39VF010	R	1 Mb	512K x 8	70 ns	2.7–3.6V	0°C to 70°C -40°C to +85°C	100,000 cycles	100 years	14 µs (Byte Program)	1 µA	–	N/A	Fast read, program and erase; Low power; Small erase sector	48B-TFBGA, 32L-TSOP, 32L-PLCC
	SST39LF020	R	2 Mb	512K x 8	55 ns	3.0–3.6V	0°C to 70°C	100,000 cycles	100 years	14 µs (Byte Program)	1 µA	–	N/A	Fast read, program and erase; Low power; Small erase sector	48B-TFBGA, 32L-TSOP, 32L-PLCC
	SST39SF020A	R	2 Mb	256K x 8	55/70 ns	4.5–5.5V	0°C to 70°C -40°C to +85°C	100,000 cycles	100 years	14 µs (Byte Program)	30 µA	–	N/A	Fast read, program and erase; Low power; Small erase sector	32L-PLCC, 32L-PDIP, 32L-TSOP
	SST39VF020	R	2 Mb	512K x 8	70 ns	2.7–3.6V	0°C to 70°C -40°C to +85°C	100,000 cycles	100 years	14 µs (Byte Program)	1 µA	–	N/A	Fast read, program and erase; Low power; Small erase sector	48B-TFBGA, 32L-TSOP, 32L-PLCC
	SST39SF040	R	4 Mb	512K x 8	70 ns	4.5–5.5V	0°C to 70°C -40°C to +85°C	100,000 cycles	100 years	14 µs (Byte Program)	30 µA	–	N/A	Fast read, program and erase; Low power; Small erase sector	32L-PLCC, 32L-PDIP, 32L-TSOP
	SST39LF040	R	4 Mb	512K x 8	55 ns	3.0–3.6V	0°C to 70°C	100,000 cycles	100 years	14 µs (Byte Program)	1 µA	–	N/A	Fast read, program and erase; Low power; Small erase sector	48B-TFBGA, 32L-TSOP, 32L-PLCC
	SST39VF040	R	4 Mb	512K x 8	70 ns	2.7–3.6V	0°C to 70°C -40°C to +85°C	100,000 cycles	100 years	14 µs (Byte Program)	1 µA	–	N/A	Fast read, program and erase; Low power; Small erase sector	48B-TFBGA, 32L-TSOP, 32L-PLCC
	SST39VF168X	R	16 Mb	2M x 8	70 ns	2.7–3.6V	0°C to 70°C -40°C to +85°C	100,000 cycles	100 years	7 µs (Byte Program)	3 µA	✓	–	64 KB	Fast read, program and erase; Low power; Small erase sector

*X is a wildcard to indicate "top" or "bottom" boot block support. Please refer to the respective datasheets for more details.

**Only standard packages are listed here. Please inquire with your local sales office for devices in die form or in chip-scale packages.

PARALLEL FLASH MEMORY																
Bus	Product*	Released (R) Not Released (NR)	Density	Organization	Access Time	Operating Voltage	Temperature Range	E/W Endurance (Minimum)	Data Retention (Minimum)	Write Speed (Typical)	Typ. Standby Current	Write Protect			Special/Unique Features	Packages**
												Hardware	Software	Protected Array Size		
x16	SST39LF200A	R	2 Mb	128K x 16	55 ns	3.0–3.6V	0°C to 70°C	100,000 cycles (typical)	100 years	14 µs (Word Program)	3 µA	–	–	N/A	Fast read, program and erase; Low power; Small erase sector	48B-TFBGA, 48L-TSOP
	SST39VF200A	R	2 Mb	128K x 16	70 ns	2.7–3.6V	0°C to 70°C –40°C to +85°C	100,000 cycles (typical)	100 years	14 µs (Word Program)	3 µA	–	–	N/A	Fast read, program and erase; Low power; Small erase sector	48B-TFBGA, 48L-TSOP, 48B-WFBGA
	SST39LF40XC	R	4 Mb	256K x 16	55 ns	3.0–3.6V	0°C to 70°C	100,000 cycles	100 years	7 µs (Word Program)	3 µA	✓	–	8 KB	Fast read, program and erase; Low power; Small erase sector; Industry standard command set and boot block structure	48B-TFBGA, 48L-TSOP, 48B-WFBGA
	SST39WF400B	R	4 Mb	256K x 16	70 ns	1.65–1.95V	0°C to 70°C –40°C to +85°C	100,000 cycles (typical)	100 years	28 µs (Word Program)	40 µA	–	–	N/A	Fast read, program and erase; Low power; Small erase sector	48B-TFBGA, 48B-WFBGA, 48B-XFBGA
	SST39VF40XC	R	4 Mb	256K x 16	70 ns	2.7–3.6V	0°C to 70°C –40°C to +85°C	100,000 cycles	100 years	7 µs (Word Program)	3 µA	✓	–	8 KB	Fast read, program and erase; Low power; Small erase sector; Industry standard command set and boot block structure	48B-TFBGA, 48L-TSOP, 48B-WFBGA
	SST39WF800B	R	8 Mb	512K x 16	70 ns	1.65–1.95V	0°C to 70°C –40°C to +85°C	100,000 cycles (typical)	100 years	28 µs (Word Program)	40 µA	–	–	N/A	Fast read, program and erase; Low power; Small erase sector	48B-TFBGA, 48B-WFBGA, 48B-XFBGA
	SST39LF80XC	R	8 Mb	512K x 16	55 ns	3.0–3.6V	0°C to 70°C	100,000 cycles	100 years	7 µs (Word Program)	3 µA	✓	–	N/A	Fast read, program and erase; Low power; Small erase sector; Industry standard command set and boot block structure	48B-TFBGA, 48L-TSOP, 48B-WFBGA
	SST39VF80XC	R	8 Mb	512K x 16	70 ns	2.7–3.6V	0°C to 70°C –40°C to +85°C	100,000 cycles	100 years	7 µs (Word Program)	3 µA	✓	–	N/A	Fast read, program and erase; Low power; Small erase sector; Industry standard command set and boot block structure	48B-TFBGA, 48L-TSOP, 48B-WFBGA
	SST39WF160X	R	16 Mb	1M x 16	70 ns	1.65–1.95V	0°C to 70°C –40°C to +85°C	100,000 cycles (typical)	100 years	28 µs (Word Program)	40 µA	✓	–	64 KB	Fast read, program and erase; Low power; Small erase sector	48B-TFBGA, 48B-WFBGA, 48B-XFBGA
	SST39VF160XC	R	16 Mb	1M x 16	70 ns	2.7–3.6V	0°C to 70°C –40°C to +85°C	100,000 cycles	100 years	7 µs (Word Program)	3 µA	✓	–	8 KB	Fast read, program and erase; Low power; Small erase sector; Industry standard command set and boot block structure	48B-TFBGA, 48L-TSOP, 48B-WFBGA
	SST39VF160X	R	16 Mb	2M x 8	70 ns	2.7–3.6V	0°C to 70°C –40°C to +85°C	100,000 cycles	100 years	7 µs (Byte Program)	3 µA	✓	–	64 KB	Fast read, program and erase; Low power; Small erase sector	48B-TFBGA, 48L-TSOP
	SST39VF320XB	R	32 Mb	2M x 16	70 ns	2.7–3.6V	0°C to 70°C –40°C to +85°C	100,000 cycles	100 years	7 µs (Word Program)	4 µA	✓	–	32 KB	Fast read, program and erase; Low power; Small erase sector	48B-TFBGA, 48L-TSOP
	SST39VF320XC	R	32 Mb	2M x 16	70 ns	2.7–3.6V	0°C to 70°C –40°C to +85°C	100,000 cycles	100 years	7 µs (Word Program)	4 µA	✓	–	8 KB	Fast read, program and erase; Low power; Small erase sector; Industry standard command set and boot block structure	48B-TFBGA, 48L-TSOP
	SST38VF640X	R	64 Mb	4M x 16	70 ns	2.7–3.6V	0°C to 70°C –40°C to +85°C	100,000 cycles	100 years	7 µs/1.75 µs (Write Buffer Program)	3 µA	✓	✓	32 KB/8 KB	Fast read, program and erase; Low power; Small erase sector; Industry standard command set and boot block structure, Security features	48B-TFBGA, 48L-TSOP
	SST38VF640XB	R	64 Mb	4M x 16	70 ns	2.7–3.6V	0°C to 70°C –40°C to +85°C	100,000 cycles	100 years	7 µs/1.75 µs (Write Buffer Program)	3 µA	✓	✓	32 KB/8 KB	Fast read, program and erase; Low power; Industry standard command set and boot block structure, Security features	48B-TFBGA, 48L-TSOP

*X is a wildcard to indicate "top" or "bottom" boot block support. Please refer to the respective datasheets for more details.

**Only standard packages are listed here. Please inquire with your local sales office for devices in die form or in chip-scale packages.

WIRELESS PRODUCTS

Product	Radio	Pin Count	Antenna	Frequency Range (GHz)	Sensitivity (dBm)	Power Output (dBm)	Tx Power Consumption (mA)	Rx Power Consumption (mA)	Sleep	MAC	MAC Features	Protocols	Encryption	Interface	Volume Pricing [†]	Packages (Dimensions)
Wi-Fi® Modules																
RN1810	802.11 b/g/n	37	PCB, W.FL	2.412–2.472	–94	0 to +20	246 (+18 dBm)	64	40 µA	Yes	802.11b/g/n, SoftAP, WPS	IPv4/IPv6, TCP, UDP, DHCP, DNS, ICMP, ARP, HTTP, FTP, SNTP, SSL/TLS	WEP, WPA-PSK, WPA2-PSK	UART	\$14.53	37/Module (26.7 x 17.8 mm)
RN1723	802.11 b/g	49	RF PAD	2.412–2.484	–83	0 to +12	120 (0 dBm)	40	4 µA	Yes	802.11b/g, SoftAP, WPS, WebScan	DHCP, DNS, ARP, ICMP, FTP client, HTTP client, TCP, UDP	WEP, WPA, WPA2, EAP	UART	\$13.49	49/Module (26.7 x 17.8 mm)
RN171	802.11 b/g	49	RF PAD	2.412–2.484	–83	0 to +12	190 (+12 dBm)	38	4 µA	Yes	802.11b/g, SoftAP, WPS, WebScan	DHCP, DNS, ARP, ICMP, FTP client, HTTP client, TCP, UDP	WEP, WPA, WPA2, EAP	UART	\$25.33	49/Module (26.7 x 17.8 mm)
RN131	802.11 b/g	44	Chip, U.FL	2.412–2.484	–85	+18	210 (+18 dBm)	40	4 µA	Yes	802.11b/g, SoftAP, WPS, WebScan	DHCP, DNS, ARP, ICMP, FTP client, HTTP client, TCP, UDP	WEP, WPA, WPA2, EAP	UART	\$30.55	44/Module (37.0 x 20.0 mm)
RN171XV	802.11 b/g	49	Wire, U.FL, SMA	2.412–2.484	–83	0 to +12	190 (+12 dBm)	38	4 µA	Yes	802.11b/g, SoftAP, WPS, WebScan	DHCP, DNS, ARP, ICMP, FTP client, HTTP client, TCP, UDP	WEP, WPA, WPA2, EAP	UART	\$25.33	2 x 10/Through hole module (24.4 x 34.3 mm)
MRF24WNOMA	802.11 b/g/n	37	PCB	2.412–2.484	–94	+18	115 (0 dBm)	60	5 µA	Yes	802.11b/g/n, SoftAP, WPS	Wi-Fi Connection Manager, Announce, DNS, DDNS, DHCP, FTP, HTTP, NBNS, SNMP, SNTP, SSL, TCP, UDP, ZeroConf ^[2]	WPA2-PSK, WPA-PSK, WEP	4-wire SPI	\$14.53	37/Module (26.7 x 17.8 mm)
MRF24WNOMB	802.11 b/g/n	37	W.FL	2.412–2.484	–94	+18	115 (0 dBm)	60	5 µA	Yes	802.11b/g, SoftAP, WPS	Wi-Fi Connection Manager, Announce, DNS, DDNS, DHCP, FTP, HTTP, NBNS, SNMP, SNTP, SSL, TCP, UDP, ZeroConf ^[2]	WPA2-PSK, WPA-PSK, WEP	4-wire SPI	\$14.53	37/Module (26.7 x 17.8 mm)
MRF24WGOMA	802.11 b/g	36	PCB	2.412–2.484	–95	+18	240	156	0.1 mA ^[1]	Yes	802.11b/g, Wi-Fi Direct, SoftAP, WPS	Wi-Fi Connection Manager, Announce, DNS, DDNS, DHCP, FTP, HTTP, NBNS, SNMP, SNTP, SSL, TCP, UDP, ZeroConf ^[2]	WPA2-PSK, WPA-PSK, WEP, WPA2-Enterprise	4-wire SPI	\$26.90	36/Module (21.0 x 31.0 mm)
MRF24WGOMB	802.11 b/g	36	U.FL	2.412–2.484	–95	+18	240	156	0.1 mA ^[1]	Yes	802.11b/g, Wi-Fi Direct, SoftAP, WPS	Wi-Fi Connection Manager, Announce, DNS, DDNS, DHCP, FTP, HTTP, NBNS, SNMP, SNTP, SSL, TCP, UDP, ZeroConf ^[2]	WPA2-PSK, WPA-PSK, WEP, WPA2-Enterprise	4-wire SPI	\$26.90	36/Module (21.0 x 31.0 mm)

1. Indicates "off" current for sleep column.

2. Supported in the provided stack.

WIRELESS PRODUCTS																	
Product	Pin Count	Antenna	Frequency Range (GHz)	Sensitivity (dBm)	Power Output (dBm)	RSSI	Tx Power Consumption (mA)	Rx Power Consumption (mA)	Clock (MHz)	Sleep	MAC	MAC Features	Protocols	Encryption	Interface	Volume Pricing [†]	Packages (Dimensions)
IEEE 802.15.4 Transceivers/Modules																	
MRF24J40	40	–	2.405–2.48	–95	0	Yes	23	19	20	2 µA	Yes	CSMA-CA	ZigBee®, MiWi™ wireless networking protocol	AES128	4-wire SPI	\$2.36	40/QFN
MRF24J40MA	12	PCB	2.405–2.48	–94	0	Yes	23	19	20	2 µA	Yes	CSMA-CA	ZigBee, MiWi wireless networking protocol	AES128	4-wire SPI	\$6.09	12/Module (17.8 x 27.9 mm)
MRF24J40MD	12	PCB	2.405–2.48	–104	+19	Yes	140	32	20	10 µA	Yes	CSMA-CA	ZigBee, MiWi wireless networking protocol	AES128	4-wire SPI	\$13.12	12/Module (17.8 x 27.9 mm)
MRF24J40ME	12	U.FL	2.405–2.48	–104	+19	Yes	140	32	20	10 µA	Yes	CSMA-CA	ZigBee, MiWi wireless networking protocol	AES128	4-wire SPI	\$13.12	12/Module (17.8 x 27.9 mm)

1. Indicates "off" current for sleep column.

2. Supported in the provided stack.

WIRELESS PRODUCTS																	
Product	Bluetooth® Spec	Module Type	No Shield Option	Rx Sensitivity (dBm)	Power Output (dBm) (typ.)	Power Consumption			Sleep		Profiles		Interface		Pin Count	Packages (Dimensions)	
Bluetooth																	
BM20	4.1	Audio	Yes	–91	4	Standby 0.8 mA, SCO Link 7.8 mA, A2DP Link 10.7 mA			System Off 2 µA		HFP, HSP, A2DP, AVRCP, SPP, PCAP	Analog audio out, mic in, line in, UART		40	29 x 15 x 2.5 mm		
BM23	4.1	Audio	Yes	–91	4	Standby 0.4 mA, SCO Link 9.3 mA, A2DP Link 11.7 mA			System Off 2 µA		HFP, HSP, A2DP, AVRCP, SPP, PCAP	I²S™ Digital audio out, mic in, line in, UART		43	29 x 15 x 2.5 mm		
RN52	3.0	Audio	No	–85	4	Idle 12 mA, Connected A2DP 26 mA, HFP/HSP 23.5 mA			N/A		A2DP, AVRCP, SPP, HFP/HSP, IAP	(Audio) Analog speaker, microphone, I²S master mode, S/PDIF, (Data) UART, USB, GPIO		50	13.5 x 26.0 mm		
BM70	4.2	Data, Single-Mode BLE	Yes	–90	0	Standby 1.9 µA, Link Static 60 µA, Tx peak = 13 mA at 0 dBm			Power saving 1 µA		GAP, GATT, SM, L2CAP, Integrated public profiles	UART, I²C, SPI, ADC, PWM, GPIOs		33	22 x 12 x 2.4 mm 15 x 12 x 1.8 mm		
BM71	4.2	Data, Single-Mode BLE	Yes	–90	0	Standby 1.9 µA, Link Static 60 µA, Tx peak = 13 mA at 0 dBm			Power saving 1 µA		GAP, GATT, SM, L2CAP, Integrated public profiles	UART, I²C, SPI, ADC, PWM, GPIOs		17	9 x 11.5 x 2.1 mm 6 x 8 x 1.6 mm		
RN4020	4.1	Data, Single-Mode BLE	No	–92.5	7	Idle < 1.5 mA, Tx/Rx active 16 mA at 0 dBm			Dormant < 700 nA, deep sleep < 5.0 µA		GAP, GATT, SM, L2CAP, Integrated public profiles	UART, PIO, AIO, SPI		24	11.5 x 19.5 mm		
BM77	4.0	Data, Dual-Mode	Yes	–80 Classic –92 LE	2	Idle 1.2 mA, Connected (transfer data) 18.6 mA (BTLE), Idle 2.5 mA, Connected (transfer data) 23 mA (Classic)			Deep Power Down 343 µA		GAP, SDP, SPP, GATT	UART, I²C, GPIOs		33	22 x 12 x 2.4 mm 15 x 12 x 1.8 mm		
RN4677	4.0	Data, Dual-Mode	Yes	–80 Classic –92 LE	2	Idle 1.2 mA, Connected (transfer data) 18.6 mA (BTLE), Idle 2.5 mA, Connected (transfer data) 23 mA (Classic)			Deep Power Down 343 µA		GAP, SDP, SPP, GATT	UART, I²C, GPIOs		33	22 x 12 x 2.4 mm 15 x 12 x 1.8 mm		
BM78	4.2	Data, Dual-Mode	Yes	–90 (BR/EDR) –92 LE	2	LE Fast Advertising (int. 160 ms), Connected (transfer data) 7.0 mA (BTLE), Standby 2.5 mA, Connected (transfer data) 10.67 mA (Classic)			Deep Power Down 130 µA		BT3.0: GAP, SPP, SDP, RFCOMM, L2CAP BT4.2: GAP, GATT, ATT, SMP, L2CAP	UART, I²C, GPIOs		33	22 x 12 x 2.4 mm 15 x 12 x 1.8 mm		
RN41	2.1	Data	No	–80	15	Standby/Idle 25 mA, Connected (normal mode) 30 mA, Connected (low power sniff) 8 mA			Standby/Idle (deep sleep enabled) 250 µA		SPP, DUN, HID, iAP, HCI, RFCOMM, L2CAP, SDP	UART, USB		35	13.4 x 25.8 mm		
RN41XV	2.1	Data	No	–80	15	Standby/Idle 25 mA, Connected (normal mode) 30 mA, Connected (low power sniff) 8 mA			Standby/Idle (deep sleep enabled) 250 µA		SPP, DUN, HID, iAP, HCI, RFCOMM, L2CAP, SDP	UART, USB		35	24.4 x 29.2 mm		
RN42	2.1	Data	No	–80	4	Standby/Idle 25 mA, Connected (normal mode) 3 mA, Connected (low power sniff) 8 mA			Standby/Idle (deep sleep enabled) 26 µA		SPP, DUN, HID, iAP, HCI, RFCOMM, L2CAP, SDP	UART, USB		35	13.4 x 25.8 mm		
RN42XV	2.1	Data	No	–80	4	Standby/Idle 25 mA, Connected (normal mode) 3 mA, Connected (low power sniff) 8 mA			Standby/Idle (deep sleep enabled) 26 µA		SPP, DUN, HID, iAP, HCI, RFCOMM, L2CAP, SDP	UART, USB		35	24.4 x 29.2 mm		

Sub-GHz Transceivers/Modules																	
Product	Pin Count	Frequency Range (MHz)	Sensitivity (dBm)	Power Output (dBm)	RSSI	TX Power Consumption (mA)	RX Power Consumption (mA)	Clock	Sleep	Interface	Volume Pricing [†]	Packages					
MRF89XAM8A	12	868	–113	12.5	Yes	25 mA @ +10 dBm	3	12.8 MHz	0.1 µA	4-wire SPI	\$5.20	12/Module (17.8 x 27.9 mm)					
MRF89XAM9A	12	915	–113	12.5	Yes	25 mA @ +10 dBm	3	12.8 MHz	0.1 µA	4-wire SPI	\$5.20	12/Module (17.8 x 27.9 mm)					
MRF49XA	16	433/868/915	–110	7	Yes	15 mA @ 0 dBm	11	10 MHz	0.3 µA	4-wire SPI	\$1.71	16/TSSOP					
MRF89XA	32	868/915/950	–113	12.5	Yes	25 mA @ +10 dBm	3	12.8 MHz	0.1 µA	4-wire SPI	\$1.76	32/TQFN					

Sub-GHz Transmitters												
Product	Pin Count	Frequency Range (MHz)	Modulation	Data Rate (Kbps)	Tx Power (dBm)	Operating Voltage (V)	Volume Pricing [†]	Packages				
MICRF114	6	285–445	OOK	115.2 (NRZ), 57.6 (Manchester Encoded)	10	1.8–3.6	0.49	6-Pin SOT-23				
MICRF113	6	300–450	ASK	20	10	1.8–3.6	0.57	6-Pin SOT-23				
MICRF112	10	300–450	ASK/FSK	50 (ASK), 10 (FSK)	10	1.8–3.6	0.49	10-pin MSOP, 10-pin DFN				

† Pricing subject to change; please contact your Microchip representative for most current pricing.

WIRELESS PRODUCTS													
Product	Pin Count	Frequency Range (MHz)	Sensitivity (dBm)	Power Output (dBm)	RSSI	Modulation	RX Power Consumption (mA)	Sleep	Interface	Volume Pricing [†]	Packages		
Sub-GHz Receivers													
MRF39RA	24	433/868/915	-120	6	Yes	-	16	100 nA	4-wire SPI	\$1.10	24-pin QFN		
MICRF219A	16	300-450	-110	-	Yes	ASK/OOK	4.3	-	-	\$1.78	16-pin QSOP		
MICRF220	16	300-450	-110	-	Yes	ASK/OOK	4.3	-	-	\$1.43	16-pin QSOP		
MICRF221	16	850-950	-109	-	Yes	ASK/OOK	9	-	-	\$1.72	16-pin QSOP		
MICRF229	16	400-450	-112	-	Yes	ASK/OOK	6	-	-	Call for Pricing	16-pin QSOP		
MICRF230	16	400-450	-112	-	Yes	ASK/OOK	6	-	-	Call for Pricing	16-pin QSOP		

LoRa® Technology Modem													
Product	Pin Count	Frequency Range (MHz)	Sensitivity (dBm)	Power Output (dBm)	RSSI	TX Power Consumption (mA)	RX Power Consumption (mA)	Clock	Sleep	Interface	Volume Pricing [†]	Packages	
RN2483	47	433/868	-148	14	N/A	40 mA @ +14 dBm (868 MHz)	14.2	N/A	1 μA	UART	Call for pricing	47/Module (17.8 x 26.7 x 3 mm)	
RN2903	47	915	-146	18.5	N/A	124 mA @ +18.5 dBm	13.5	N/A	0.002 mA	UART	Call for pricing	47/Module (17.8 x 26.7 x 3 mm)	

[†] Pricing subject to change; please contact your Microchip representative for most current pricing.

WIRELESS PRODUCTS															
Product	I/O Pins	Frequency Range (MHz)	Program Memory (Bytes)	EEPROM (bytes)	RAM (bytes)	Digital Timer	Watch Dog Timer	Max. Speed (MHz)	ICSP™	Modulation	Data Rate (kbps)	Output Power (dBm)	Operating Voltage	Volume Pricing [†]	Packages
rfPIC® Transmitters + PIC® MCUs															
PIC12F5291T9A	6	310-928	2.3K	64	201	1	1	8	Yes	OOK/FSK	100	10	2.0-3.7	\$0.95	14/TSSOP
PIC12LF1840T39A	6	310-928	7.1K	256	256	2	1	32	Yes	OOK/FSK	100	10	1.8-3.6	\$1.27	14/TSSOP
PIC16LF1824T39A	20	310-928	4K	256	256	1	1	32	Yes	OOK/FSK	100	10	1.8-3.6	\$1.41	20/TSSOP
rPIC12F675F	6	380-450	1.7K	128	64	1	1	20	Yes	ASK/FSK	40	10	2.0-5.5	\$2.11	20/SSOP
rPIC12F675H	6	850-930	1.7K	128	64	1	1	20	Yes	ASK/FSK	40	10	2.0-5.5	\$2.11	20/SSOP
rPIC12F675K	6	290-350	1.7K	128	64	1	1	20	Yes	ASK/FSK	40	10	2.0-5.5	\$2.11	20/SSOP

[†] Pricing subject to change; please contact your Microchip representative for most current pricing.

WIRELESS AUDIO: Highly Integrated Wireless Audio Baseband Processors													
Product	Additional Features								Frequency	Interface	Pin	Packages	
DARR83	Supports streaming of four wireless uncompressed stereo audio channels simultaneously or complete wireless 7.1 channel surround sound system, latency < 20 ms, point-to-multi-point transmission in home audio networking, SD and HD audio, excellent Wi-Fi® and Bluetooth® coexistence, bi-directional audio support, control data channel up to 100 kbps, integrated MCU and SRC, integrated audio-class USB								Tri-band 2.4/5.2/5.8 GHz	I²S, S/PDIF, I²C, SPI, USB 2.0	129	FBGA	
DM920	Networked media processor, highly flexible interface processor well-suited for secure, real-time encoding/decoding and processing of multi-channel media content, offering industry-standard networking and I/O interfaces, enables rapid product development by OEMs and ODMs, API structure on the software packages allows for easy product customization resulting in faster time to market.								2.4/5 GHz, 802.11a/b/g/n	I²S, S/PDIF, I²C, USB, Ethernet, SPI, CCIR 656 Out, CEA861 for HDMI	323	LFBGA	

WIRELESS AUDIO: Highly Integrated Wireless Audio Modules													
Product	Additional Features								Frequency	Interface	Pin	Module Dimension	
DWAM83	Uncompressed wireless digital audio transceiver OEM module based on the DARR83, supports up to four stereo audio streams, data encryption, bi-directional control messaging, automatic pairing, WLAN detection, automatic frequency allocation								Tri-band, 2.4/5.2/5.8 GHz	I²S, S/PDIF, I²C, SPI	26-pin FFC Connector	35 x 35 mm Square PCB	
DWHP83	Uncompressed digital audio transceiver OEM module based on the DARR83, supports up to four stereo audio streams, data encryption, bi-directional control messaging, automatic pairing, WLAN detection, automatic frequency allocation								Dual-band 5.2/5.8 GHz	I²S, S/PDIF, I²C, SPI	26-pin PIN Header Connector	40 x 20 mm	
DWL84	Uncompressed wireless digital audio transceiver OEM module based on the DARR84, supports up to two stereo audio streams, data encryption, bi-directional control messaging, automatic pairing, WLAN detection, excellent Wi-Fi® and Bluetooth® coexistence using Wireless DNA architecture, well-suited for applications such as speakers and soundbars with subwoofers								Single-band 2.4 GHz	I²S, S/PDIF, I²C, SPI	-	30 x 42 mm	
DWUSB83	Uncompressed wireless digital audio transceiver OEM module based on the DARR83, supports up to four stereo audio streams, data encryption, bi-directional control messaging, automatic pairing, WLAN detection, automatic frequency allocation								Tri-band, 2.4/5.2/5.8 GHz	USB	-	49 x 18 mm	
CX870	Single-board, networked, media player module based on the DM870A media processors, enables fast product developments with Ethernet, USB and Wi-Fi connectivity, connects to standard legacy components in various audio, video/LCD and control formats								2.4 GHz, 802.11 b/g	I²S, S/PDIF, I²C, USB, SD/SDIO, Ethernet, TFT for Display, SPI, CCIR 656 out	64-pin PCB Low Density Connector	46 x 85.8 mm	
CY920	Single-board network media module based on DM920 network media processor with built-in dual-core DSP, enables faster product development with Ethernet, USB, Wi-Fi and Bluetooth connectivity								2.4/5 GHz, 802.11b/g/n	I²S, SPDIF, I²C, USB 2.0 OTG, SPI, UART, Ethernet, HDMI	2x 64-pin B2B Connector	40 x 60 mm	

WIRELESS AUDIO: Radio Frequency Digital Audio Transceivers													
Product	Features								Typical Sink Mode Power Consumption	PA Output Power	Audio	Qualification	
KLR3012	Wirelessly streams uncompressed lossless audio up to 25m over robust 2.4 GHz radio link, multi-point to multi-point connectivity, strong Wi-Fi® coexistence, data channel for audio playback control, very low power consumption								20 mW	1.5 dBm	16 bit, 44.1 Ks/s stereo	JEDEC	

Part #	Description	Processor Interface	# of Downstream Ports	Card Formats	Industrial Version	Packages
USB Hub Controllers						
USB2412	Hi-Speed USB 2.0 2-Port Hub	USB 2.0	2	-	-	28-pin QFN
USB2422	Small-footprint, 2-Port Value Hub, Commercial and Industrial Temperature with USB Battery Charging 1.1	USB 2.0	2	-	✓	24-pin QFN
USB251XB/USB2517	Hi-Speed USB 2.0 Hub with Battery Charger Detection	USB 2.0	2, 3, 4, 7 port options	-	✓ Automotive	36 or 64-pin QFN
USB2524	4-Port Hi-Speed USB 2.0 Multi-Switch Hub	USB 2.0 x 2	4	-	-	56-pin QFN
USB3503	3-Port Hi-Speed USB 2.0 HSIC Hub for Mobile Applications	HSIC	3	-	✓	25-ball WLCSP
USB3803	3-Port Hi-Speed USB 2.0 Hub for Mobile Applications	USB 2.0	3	-	✓	25-ball WLCSP
USB3X13	3-Port Hi-Speed USB 2.0 Smart Hub for Mobile Applications	USB 2.0 or HSIC	3 (USB 2.0 x2/HSIC x1)	-	✓	30-ball WLCSP
USB253X	Hi-Speed USB 2.0 Controller Hub with Battery Charger Detection	USB 2.0	2, 3, 4 port options	-	✓	36-pin QFN
USB46X4	Hi-Speed USB 2.0 Controller Hub with USB and HSIC Interfaces	USB 2.0 or HSIC	4 (USB 2.0 x4 or USB 2.0 x2/HSIC x2)	-	✓ Automotive	48-pin QFN
USB553XB	SuperSpeed USB 3.0 Hub with Battery Charger Detection	USB 3.0	2, 3, 4 or 7 port options	-	✓	64 or 72-pin QFN
USB5734	SuperSpeed USB 3.1 Gen1 Smart Hub Controller with I/O Bridging and FlexConnect	USB 3.1 Gen1	4	-	✓ Automotive	64-pin QFN
USB5744	SuperSpeed USB 3.1 Gen1 Small Form Factor Hub Controller	USB 3.1 Gen1	4	-	✓	56-pin QFN

Part #	Description	Processor Interface	# of Downstream Ports	Card Formats	Industrial Version	Packages
USB-C™ Power and Charging						
UTC200X	USB-C Controller	I/O	1 DFP or 1 UFP	-	✓ Automotive	16-pin QFN
USB Transceivers/Switches						
USB333X	Mobile Hi-Speed USB 2.0 Transceiver with Multi-frequency Support	ULPI	-	-	✓	25-ball WLCSP
USB334X	Hi-Speed USB 2.0 Transceiver with Multi-frequency Support	ULPI	-	-	Automotive	24 or 32-pin QFN
USB3300	Hi-Speed USB 2.0 Transceiver (24 MHz reference clock support)	ULPI	-	-	✓	32-pin QFN
USB3740B	Hi-Speed USB 2.0 Switch with Extremely Low Power	USB 2.0	-	-	✓	10-pin QFN
USB375AX-X	Hi-Speed USB 2.0 Port Protection with Switch and Charger Detection	USB 2.0	-	-	✓	16-pin QFN
USB Flash Media Controllers						
USB224X	Hi-Speed USB 2.0 Multi-Format Flash Media Controller	USB 2.0	-	SD™/MMC/eMMC™/MS/xD	✓	36-pin QFN
USB225X	Hi-Speed USB 2.0 Multi-Format Flash Media Controller	USB 2.0	-	SD/MMC/eMMC/MS/xD/CF	✓	128-pin VTQFP
USB264X	Hi-Speed USB 2.0 Multi-Format Flash Media Hub Controller	USB 2.0	2	SD/MMC/eMMC/MS/xD	✓ Automotive	48-pin QFN
USB2660	Hi-Speed USB 2.0 Multi-Format Flash Media Hub Controller	USB 2.0	2	SD/MMC/eMMC/MS/xD (x2)	✓	64-pin QFN
USB4640	Hi-Speed USB 2.0 Multi-Format Flash Media HSIC Hub Controller	HSIC	2	SD/MMC/eMMC/MS/xD	✓	48-pin QFN

Part #	Description	Interface (Upstream)	Wake-On-LAN	EEE	Industrial Version	Packages
Ethernet Controllers						
ENC28J60	10Base-T Ethernet Controller	SPI	-	-	✓	28-pin SPDIP, SSOP, SOIC, QFN
ENC624J600	10Base-T/100Base-TX Ethernet Controller with Security	SPI/Parallel	-	-	✓	24-pin TQFN, QFN, 64-pin TQFN
LAN9217	10Base-T/100Base-TX Ethernet Controller with 16-bit/MII interface	16-bit Host Bus/MII	-	-	-	100-pin TQFP
LAN9218	10Base-T/100Base-TX Ethernet Controller with 32-bit interface	32-bit Host Bus	-	-	✓	100-pin TQFP
LAN9220	10Base-T/100Base-TX Ethernet Controller with 16-bit interface	16-bit Host Bus	-	-	-	56-pin QFN
LAN9221	10Base-T/100Base-TX Ethernet Controller with 16-bit interface	16-bit Host Bus	-	-	✓	56-pin QFN
LAN9420	10Base-T/100Base-TX Ethernet Controller with 32-bit PCI interface	32-bit PCI 3.0	-	-	✓	128-pin VTQFP
LAN89218	TrueAuto, 10Base-T/100Base-TX Ethernet Controller with 32-bit interface	32-bit Host Bus	-	-	Automotive	100-pin TQFP
KSZ8851	10/100Base-TX Ethernet Controller	8-/16-/32-bit or SPI	✓	-	Automotive	32-pin QFN, 48-pin LQFP, 128-pin PQFP
KSZ8852	2-Port 10/100Base-TX Ethernet Controller	8-/16-/32-bit	✓	✓	✓	64-pin LQFP
KSZ8441	10/100Base-T/FX Ethernet Controller with 1588v2 PTP and Clock Synchronization	8-/16-/32-bit or PCI	✓	✓	✓	64-pin LQFP

*Note: All products above are supported with 3.3V operating voltage

ETHERNET PRODUCTS							
Part #	Description	Interface (Upstream)	Wake-On-LAN	EEE	Industrial Version	Packages	
USB to Ethernet							
LAN9500A	USB 2.0 to 10/100 Ethernet Controllers	USB 2.0	✓	-	✓	56-pin QFN	
LAN9730	USB HSIC 2.0 to 10/100 Ethernet Controllers	USB 2.0 (HSIC), MII	-	-	✓	56-pin QFN	
LAN7500	USB 2.0 to 10/100/1000 Ethernet Controllers	USB 2.0	✓	-	✓	56-pin QFN	
LAN7800	USB 3.1 Gen1 to 10/100/1000 Ethernet Controllers	USB 3.1	✓	✓	✓	48-pin SQFN	
LAN9512	USB 2.0 to 10/100 Ethernet Controllers with 2-Port USB 2.0 Hub	USB 2.0	-	-	✓	64-pin QFN	
LAN9513	USB 2.0 to 10/100 Ethernet Controllers with 3-Port USB 2.0 Hub	USB 2.0	-	-	✓	64-pin QFN	
LAN9514	USB 2.0 to 10/100 Ethernet Controllers with 4-Port USB 2.0 Hub	USB 2.0	-	-	✓	64-pin QFN	
LAN89530	TrueAuto, USB 2.0 to 10/100 Ethernet Controllers	USB 2.0	✓	-	Automotive	56-pin QFN	
Ethernet Transceivers							
LAN8710A	Small-Footprint, Low Power Consumption, Full-Featured 10/100 Ethernet Transceivers	MII/RMII	-	-	✓	32-pin QFN	
LAN8720A	Small-Footprint, Low Power Consumption, Full-Featured 10/100 Ethernet Transceivers	RMII	-	-	✓	24-pin QFN	
LAN8740A	Small-Footprint, 10/100 PHY Family Featuring Energy Efficient Ethernet and Wake-On-LAN	MII/RMII	✓	✓	✓	32-pin QFN	
LAN8741A	Small-Footprint, 10/100 PHY Family Featuring Energy Efficient Ethernet	MII/RMII	-	✓	✓	32-pin QFN	
LAN8742A	Small-Footprint, 10/100 PHY Family Featuring Wake-On-LAN	RMII	✓	-	✓	24-pin QFN	
KSZ8051	Small footprint, 10/100 PHY Family Featuring Wake-on-LAN	MII/RMII	-	-	✓	32-pin QFN	
KSZ8061	Small footprint, 10/100 PHY Family Ultra Deep Sleep Standby and Quiet-WIRE® Technology	MII/RMII	-	-	✓	32-/48-pin QFN	
KSZ8081	Small footprint, 10/100 PHY Family Featuring Wake-on-LAN and Low-Power Voltage Drive	MII/RMII	-	-	✓	24-/32-pin QFN, 48-pin LQFP	
KSZ8091	Small footprint, 10/100 PHY Family Featuring Energy Efficient Ethernet, Wake-on-LAN and Low-Power Voltage Drive	MII/RMII	✓	✓	✓	24-/32-pin QFN, 48-pin LQFP	
KSZ9031	MII/GMII/RGMII 10/100/1000 Ethernet Transceiver Family Featuring Energy Efficient Ethernet and Wake-On-LAN	MII/RMII/RGMII	✓	✓	✓	48-/64-pin QFN	
LAN88730	TrueAuto, Small Footprint, Full-Featured 10/100 Ethernet Transceivers	MII/RMII	-	-	Automotive	32-pin QFN	

*Note: All products above are supported with 3.3V operating voltage

ETHERNET PRODUCTS							
Part #	Description	Interface (Upstream)	1588-2008	Cable Diagnostics	100 FX (Fiber Support)	Packages	
EtherCAT® Controllers							
LAN9252	2/3-Port 100 EtherCAT Slave Controller	SPI/SQI™/8/16/32 Host Bus	Clock Synchronization	✓	✓	64-pin QFN, 64-pin TQFP-EP	
Ethernet Switches							
LAN9303	3-Port 10/100 Managed Ethernet Switch	MII/RMII/Turbo MII	-	-	-	56-pin QFN	
LAN9303M	3-Port 10/100 Managed Ethernet Switch	MII/RMII/Turbo MII	-	-	-	72-pin QFN	
LAN9353	3-Port 10/100 Managed Ethernet Switch with Single MII/RMII/Turbo MII or Dual RMII	MII/RMII/Turbo MII	✓	✓	✓	64-pin QFN, 64-pin TQFP-EP	
LAN9354	3-Port 10/100 Managed Ethernet Switch with Single RMII	RMII	✓	✓	✓	56-pin QFN	
LAN9355	3-Port 10/100 Managed Ethernet Switch with Dual MII/RMII/Turbo MII	MII/RMII/Turbo MII	✓	✓	✓	88-pin QFN, 80-pin TQFP-EP	
KSZ8863	3-Port 10/100Base-TX/FX Switch with MII/RMII Interface	MII/RMII	-	✓	✓	48-pin LQFP	
KSZ8873	3-Port 10/100Base-TX/FX Switch with MII/RMII Interface (Automotive Qualified)	MII/RMII	-	✓	✓	64-pin VQFN	
KSZ8463	3-Port 10/100Base-TX/FX 1588v2 Switch with MII/RMII Interface	MII/RMII	✓	✓	✓	64-pin LQFP	
KSZ8864	4-Port Switch with 2x 10/100Base-TX + 2x MII/RMII Interface (Automotive Qualified)	MII/RMII	-	✓	-	64-pin VQFN	
KSZ8794	4-Port Switch with 3x 10/100Base-TX + 1x RGMII/MII/RMII Interface	MII/GMII/RGMII	-	✓	-	64-pin VQFN	
KSZ8795	5-Port Switch with 4x 10/100Base-TX + 1x GMII/RGMII/MII/RMII Interface	GMII/RGMII/MII/RMII	-	✓	-	80-pin LQFP	
KSZ8775	5-Port Switch with 3x 10/100Base-TX + 2x RGMII/MII/RMII Interface	MII/GMII/RGMII	-	✓	-	80-pin LQFP	
KSZ8765	5-Port Switch with 2x 10/100Base-TX + 2x 100Base-FX + 1x GMII/RGMII/MII/RMII Interface	MII/GMII/RGMII	-	✓	✓	64-pin QFN, 80-pin LQFP	
KSZ8895	5-Port 10/100Base-TX/FX Switch with MII/RMII Interface (Automotive Qualified)	MII/RMII	-	✓	-	128-pin PQFP	

MOTION PRODUCTS

Product	Description	Sensors Supported	Operating Temperature (°C)	Supply Current Active (Typ.)	Supply Current Idle (Typ.)	Package
SSC7102	Motion Coprocessor	Bosch BMC150 (A + M) Bosch BMG160 (G)	0 to +70	3.75 mA	1.0 mA	84-pin 6 x 6 TFBGA
SSC7150	Motion Coprocessor	Bosch BMC150 (A + M) Bosch BMG160 (G)	0 to +70	7.65 mA	1.77 mA	28-pin 6 x 6 QFN
MM7150I	Motion Module with SSC7150	Bosch BMC150 (A + M) Bosch BMG160 (G)	-40 to +85	13.25 mA	2.5 mA	16/Module 17 x 17 mm

AUTOMOTIVE: Media Oriented Systems Transport (MOST®) Network Interface Controllers

Intelligent Network Interface Controller (INIC) for MOST Networks

Product	Features	Interface	Temperature Range (°C)	Pin	Packages
OS81110 INIC	Fully-encapsulated, single-chip, embedded network management, supports MOST embedded Ethernet channel and isochronous channels (MOST150)	MOST150 FOT or MOST150 coax transceiver, I²C, I²S™/SPDIF, TSI, SPI, MediaLB®	-40 to 105	48	QFN
OS81082 INIC	Fully-encapsulated, single-chip, embedded network management (MOST50)	MOST50 electrical (UTP), I²C, I²S, MediaLB	-40 to 95	64	ETQFP
OS81092 INIC	ROM version of OS81082 INIC (MOST50)	MOST50 electrical (UTP), I²C, I²S, MediaLB	-40 to 105	48	QFN
OS81050 INIC	Fully-encapsulated, single-chip with embedded network management (MOST25)	MOST25 FOT, I²C, I²S, MediaLB	Standard range: -40 to 85 Extended range: -40 to 105	44	QFP, ETQFP
OS81060 INIC	ROM version of OS81050 INIC (MOST25)	MOST25 FOT, I²C, I²S, MediaLB	-40 to 105 (targeted)	40	QFN

AUTOMOTIVE: Power Management Companion

For Diagnostics, Status Monitoring and Power Supply

Product	Features	Interface	Temperature Range (°C)	Pin	Packages
MPM85000	Power management companion for diagnostics, status monitoring and power supply	LIN 2.0, I²C	-40 to 105	24	QFN

AUTOMOTIVE: Multimedia I/O Companion

Multimedia I/O Port Expander

Product	Features	Interface	Temperature Range (°C)	Pin	Packages
OS85650	Low-cost multimedia I/O port expander, DTCP co-processor	MediaLB 3-pin and 6-pin, Host Bus Interface (HBI), 2 x multi-channel streaming ports, 2 x TSI, 2 x SPI, I²C	-40 to 105	128	ETQFP
OS85652	Low-cost multimedia I/O port expander	MediaLB 3-pin and 6-pin, Host Bus Interface (HBI), 2 x multi-channel streaming ports, 2 x TSI, 2 x SPI, I²C	-40 to 105	128	ETQFP
OS85656	Low-cost multimedia I/O port expander well-suited for streaming applications	MediaLB 3-pin, streaming port I²S™ (FSYN, FCLK, 4 x IN, 4 x Out, @ 512 Fs), serial transport stream interface (TSI), I²C	-40 to 105	48	QFN
OS85654	Low-cost multimedia I/O port expander well-suited for streaming applications, DTCP co-processor	MediaLB 3-pin, streaming port I²S (FSYN, FCLK, 4 x IN, 4 x Out, @ 512 Fs), serial transport stream interface (TSI), I²C	-40 to 105	48	QFN

AUTOMOTIVE: Ethernet Controllers

10/100 Ethernet Controllers with USB 2.0, HSIC or HBI

Product	Features	Interface	Temperature Range (°C)	Pin	Packages
LAN89218	High-performance, single-chip controller with HP Auto-MDIX support*	MAC/PHY, 10Base-T/100Base-TX, 32- and 16-bit Host Bus Interface (HBI)	-40 to 85	100	TQFP
LAN89530	Hi-Speed USB 2.0 to 10/100 Ethernet controller	USB 2.0	-40 to 85	56	QFN

*HP Auto MDIX eliminates the need for special "crossover" cables when connecting LAN devices together.

AUTOMOTIVE: Ethernet Switch

10/100 Managed Ethernet Switch with HP Auto-MDIX Support

Product	Features	Interface	Temperature Range (°C)	Ports	Pin	Packages
LAN89303	High-performance, small-footprint, full-featured, single MII/RMII/Turbo MII support	MII/RMII, 2 x 10/100 PHYs, 3 x 10/100 MACs	-40 to 85	4	56	QFN

AUTOMOTIVE: Ethernet Transceiver

10/100 Ethernet Transceiver with HP Auto-MDIX Support*, Featuring flexPWR® Technology

Product	Features	Interface	Temperature Range (°C)	Pin	Packages
LAN88730	Small footprint, low-power consumption, full featured	10Base-T/100Base-TX, MII/RMII	LAN88730AM: -40 to 85 LAN88730BM: -40 to 105	32	QFN

*HP Auto MDIX eliminates the need for special "crossover" cables when connecting LAN devices together.

AUTOMOTIVE: Hi-Speed USB 2.0 Hub

USB 2.0 Hub Featuring MultiTRAK™ Technology

Product	Features	Interface	Temperature Range (°C)	Ports	Pin	Packages
USB82512	Versatile, cost effective, energy efficient, incorporating MultiTRAK™, PortMap, PortSwap, PHYBoost technologies	SMBus/I²C	-40 to 85	2	36	QFN
USB82513	Versatile, cost effective, energy efficient, incorporating MultiTRAK, PortMap, PortSwap, PHYBoost technologies	SMBus/I²C	-40 to 85	3	36	QFN
USB82514	Versatile, cost effective, energy efficient, incorporating MultiTRAK, PortMap, PortSwap, PHYBoost technologies	SMBus/I²C	-40 to 85	4	36	QFN

AUTOMOTIVE: Hi-Speed USB 2.0 Hub and Flash Media Card Controllers

USB 2.0 Hub and Card Controller Combos

Product	Features	Socket Type	Supports	Temperature Range (°C)	USB Ports	Pin	Packages
USB82640	Features PortMap, PortSwap and PHYBoost technologies	Single	SD™/SD High Capacity™/MultiMediaCard™/Memory Stick®/MS PRO™, MS PRO-HG™	-40 to 85	2	48	QFN
USB82642	USB bridge/card reader combo with USB to SDIO and USB to I²C bridging functionality and PortMap, PortSwap and PHYBoost technologies	Single	SD/SD High Capacity/MultiMediaCard/Memory Stick/MS PRO, MS PRO-HG	-40 to 85	2	48	QFN

AUTOMOTIVE: Hi-Speed USB 2.0 Transceiver

USB 2.0 Transceiver with 1.8V ULPI Interface

Product	Features	Interface	Temperature Range (°C)	Ports	Pin	Packages
USB83340	Multi-frequency reference clock	1.8V to 3.3V ULPI	-40 to 105	1	32	QFN

AUTOMOTIVE: Hi-Speed USB 2.0 Battery Charger

Standalone USB Battery Charger

Product	Features	Temperature Range (°C)	Supports	Pin	Packages
UCS81001	USB battery charger supporting BC1.2, China charging, Apple® and RIM® charging profiles as well as programmable charging profiles for unforeseen peripherals	-40 to 85	USB, I²C, SMBus	28	QFN
UCS81002	USB battery charger supporting BC1.2, China charging, Apple and RIM charging profiles as well as programmable charging profiles for unforeseen peripherals	-40 to 85	USB, I²C, SMBus	28	QFN

AUTOMOTIVE: Wireless Audio

Radio Frequency Digital Audio Transceiver

Product	Features	Typical Sink Mode Power Consumption	PA Output Power	Audio	Qualification
KLR83012	Wirelessly streams uncompressed lossless audio up to 25m over robust 2.4 GHz radio link, multi-point to multi-point connectivity, strong Wi-Fi® coexistence, data channel for audio playback control, very low power consumption	20 mW	1.5 dBm	16 bit, 44.1 Ks/s stereo	AEC Q100

AUTOMOTIVE: Capacitive Touch Sensors

Product	Features	Input Channels	LED Drivers	Proximity Included	Interface	Pin	Packages
CAP81188	Reset, wake and alert, automatic recalibration, base capacitance compensation	8	8	✓	I²C/SPI/SMSC BC-Link™	24	QFN

EMBEDDED CONTROLLERS AND SUPER I/O: Keyboard Controllers

Product	Description	Operating Temperature (°C)	GPIO	Code Storage	EEPROM	SMBus Ports	Analog-to-Digital Converter	BC-Link	SPI Host	Host Interface	Packages
MEC1322	High-performance 32-bit, 128 KB SRAM, 32 KB Boot ROM embedded microcontroller	0 to 70	116	External SPI Flash	0	5	5 ch	1	2	LPC	132-pin DQFN
MEC1404	Low-power 32-bit mobile embedded controller, LPC, I²C	0 to 70	106	External SPI Flash	0	6	8 ch	2	3	LPC, I²C	128-pin VTQFP
MEC1408	Low-power 32-bit mobile embedded controller, LPC, I²C	0 to 70	106	External SPI Flash	0	6	8 ch	2	3	LPC, I²C	128-pin VTQFP
MEC1418	Low-power 32-bit mobile embedded controller, LPC, I²C, eSPI	0 to 70	106	External SPI Flash	0	6	8 ch	2	3	LPC, I²C, eSPI	128-pin VTQFP
MEC1633	Low-power mobile embedded Flash ARC EC BC-Link with CEC	0 to 70	135	Embedded Flash	2K Bytes	12	16 ch	3	2	LPC	169-pin LFBGA
MEC1641	Low-power 32-bit mobile embedded controller	0 to 70	108	Embedded Flash	2K Bytes	6	16 ch	3	0	LPC	144-pin TFBGA

EMBEDDED CONTROLLERS AND SUPER I/O: Desktop Super I/O

Product	Description	Operating Temperature (°C)	GPIO	Security Key Register	PCI Support	SMBus Interface	Intruder Detection	Resume Reset	Packages
SCH3106	LPC I/O with multiple serial ports, 8042 KBC, reset generation, and HWM	0 to 70	40	32 byte	-	-	-	✓	128-pin VTQFP
SCH3112	LPC I/O with multiple serial ports, 8042 KBC, reset generation, and HWM	-40 to 85	40	32 byte	-	-	-	-	128-pin VTQFP
SCH3114	LPC I/O with multiple serial ports, 8042 KBC, reset generation, and HWM	-40 to 85	40	32 byte	-	-	-	-	128-pin VTQFP
SCH3116	LPC I/O with multiple serial ports, 8042 KBC, reset generation, and HWM	-40 to 85	40	32 byte	-	-	-	-	128-pin VTQFP
SCH5017	Super I/O with temperature sensing, quiet auto fan, glue logic	0 to 70	25	32 byte	-	✓	✓	✓	128-pin QFP
SCH5027	Super I/O with temperature sensing, quiet auto fan, glue logic and PCI	0 to 70	25	32 byte	x1 CPU, x2 domain, C3/C4	✓ (Slave Only)	✓	✓	128-pin QFP
SCH5127	Super I/O with temperature sensing, quiet auto fan, glue logic	0 to 70	30	-	-	-	✓	✓	128-pin QFP
SCH5627	Desktop embedded controller with fan control, hardware monitoring, and PCI	0 to 70	60	-	PCI 1.1, x2 CPU, x4 domain, C3/C4	Y-2 (Master or Slave)	✓	✓	128-pin QFP
SCH5636	Desktop embedded controller with fan control, hardware monitoring, and PCI	0 to 70	60	-	PCI 2.0, x2 CPU, x4 domain, C3/C4	Y-2 (Master or Slave)	✓	✓	128-pin QFP

EMBEDDED CONTROLLERS AND SUPER I/O: Expansion and Legacy I/O

Product	Description	Operating Temperature (°C)	Interface	Operating Voltage	GPIO Pins	Keyboard Scan Matrix	PS/2 Ports	Parallel Port	SMBus	BC-Link	Packages
ECE1088	GPIO Expansion via SMBus or BC-Link bus	0 to 70	BC-Link	3.3V	20	-	-	-	✓	✓	28-pin QFN
ECE1099	GPIO Expansion via SMBus or BC-Link bus with Keystream Matrix	0 to 70	BC-Link	3.3V	32	23 x 8	-	-	✓	✓	40-pin QFN
ECE1105	GPIO Expansion with PS/2 and Keystream Matrix via SMBus or BC-Link bus	0 to 70	BC-Link	3.3V	40	23 x 8	2	-	✓	✓	48-pin QFN
FDC37C669	Super I/O Floppy Disk Controller with Infrared Support	0 to 70	ISA	5V	48	-	-	✓	-	-	100-pin QFP
FDC37C78	Floppy Disk Controller	0 to 70	ISA	3.3V/5V	0	-	-	✓	-	-	48-pin TQFP
LPC47B272	Super I/O Controller with LPC Interface	0 to 70	LPC	3.3V	37	-	-	✓	-	-	100-pin QFP
LPC47M102	Super I/O Controller with LPC Interface	0 to 70	LPC	3.3V	37	-	-	✓	-	-	100-pin QFP
LPC47M107	I/O Controller Interface IC Enhanced Super I/O Controller	0 to 70	LPC	3.3V	37	-	-	✓	-	-	100-pin QFP
LPC47M112	Enhanced Super I/O Controller with LPC Interface	0 to 70	LPC	3.3V	37	-	-	✓	-	-	100-pin QFP
LPC47M182	Advanced I/O Controller with Motherboard Glue Logic	0 to 70	LPC	3.3V	13	-	-	✓	-	-	128-pin QFP
LPC47N217	Super I/O Controller with LPC Interface	0 to 70	LPC	3.3V	13	-	-	✓	-	-	56-pin QFN
LPC47N267	LPC Super I/O Controller with X-Bus Interface	0 to 70	LPC	3.3V	29	-	-	✓	-	-	100-pin STQFP
SIO1007	LPC Super I/O Controller with UART	0 to 70	LPC	3.3V	16	-	-	-	-	-	64-pin STQFP
SIO1028	LPC I/O Controller with Three Serial Ports	0 to 70	LPC	3.3V	24	-	-	-	-	-	64-pin TQFP
SIO10N268	I/O Controller for ISA or LPC Designs, X-Bus Interface, Memory and FWH Emulation	0 to 70	LPC or ISA	3.3V	33	-	-	✓	-	-	128-pin VTQFN

TOUCH AND 3D GESTURE CONTROL: Capacitive Touch Controllers

Product	Input Channels	LED Drivers	Additional Features	Proximity Included	Interface	Voltage	Pin	Packages
CAP1114	14	11	Slider, reset and alert, automatic recalibration, base capacitance compensation	✓	I ² C/SMBus	3-3.6V	32	QFN
CAP1188	8	8	Reset, wake and alert, automatic recalibration, base capacitance compensation	✓	I ² C/SPI/SMSC BC-Link	3-3.6V	24	QFN
CAP1128	8	2	Reset, wake and alert, automatic recalibration, base capacitance compensation	✓	I ² C/SPI/SMSC BC-Link	3-3.6V	20	QFN
CAP1166	6	6	Reset, wake and alert, automatic recalibration, base capacitance compensation	✓	I ² C/SPI/SMSC BC-Link	3-3.6V	20	QFN
CAP1126	6	2	Reset, wake and alert, automatic recalibration, base capacitance compensation	✓	I ² C/SPI/SMSC BC-Link	3-3.6V	16	QFN
CAP1133	3	3	Alert, automatic recalibration, base capacitance compensation	✓	I ² C/SMBus	3-3.6V	10	DFN
CAP1106	6	0	Alert, automatic recalibration, base capacitance compensation	✓	I ² C/SMSC BC-Link	3-3.6V	10	DFN
CAP1105	5	0	Automatic recalibration, base capacitance compensation	✓	SPI	3-3.6V	10	DFN
CAP1214	14	11	Slider, reset and alert, automatic recalibration, base capacitance compensation, audio output	✓	I ² C/SMBus	3-3.6V	32	QFN
CAP1298	8	-	Alert, automatic calibration, base capacitance compensation	✓	I ² C	3.3-5V	16	QFN
CAP1208	8	-	Alert, automatic calibration, base capacitance compensation	-	I ² C	3.3-5V	16	QFN
CAP1296	6	-	Alert, automatic calibration, base capacitance compensation	✓	I ² C	3.3-5V	10	QFN
CAP1206	6	-	Alert, automatic calibration, base capacitance compensation	-	I ² C	3.3-5V	10	QFN
CAP1293	3	-	Alert, automatic calibration, base capacitance compensation	✓	I ² C	3.3-5V	8	QFN
CAP1203	3	-	Alert, automatic calibration, base capacitance compensation	-	I ² C	3.3-5V	8	QFN
MTCH101	1	-	Optimized for button replacement, adjustable sensitivity, noise rejection filters, low-power mode	-	Digital	2-5.5V	6	SOT-23
MTCH102	2	-	Optimized for button replacement, supports water-resistant designs, noise rejection filters, active guard, low-power mode	✓	GPIO	2.1-3.6V	8	MSOP, UDFN
MTCH105	5	-	Optimized for button replacement, supports water-resistant designs, noise rejection filters, active guard, low-power mode	✓	GPIO	2.1-3.6V	14/16	TSSOP, QFN
MTCH108	8	-	Optimized for button replacement, supports water-resistant designs, noise rejection filters, active guard, low-power mode	✓	GPIO	2.1-3.6V	20	SSOP, UQFN
MTCH112	2	-	Adjustable sensitivity, noise rejection filters, low power mode	-	I ² C	1.8-3.3V	8	SOIC, DFN

TOUCH AND 3D GESTURE CONTROL: Capacitive Touchpads and Touch Screen Controllers

Product	Channels	Surface Gestures	Additional Features	Low Power	Interface	Voltage	Pin	Package
MTCH6102	15	✓	Projected capacitive touch controller, single touch and gestures, self capacitance, low power	✓	I ² C	1.8–3.6	28	SSOP, UQFN
MTCH6301	13RX/18TX	✓	Projected capacitive touch controller, multi touch and gestures, self and mutual capacitance	–	I ² C	2.4–3.6V	44	TQFP, QFN
MTCH6303	27RX/19TX	✓	Projected capacitive touch controller, multi touch and gestures, self and mutual capacitance	–	USB/I ² C	2.6–3.6V	64	TQFP, QFN

TOUCH AND 3D GESTURE CONTROL: 3D Gesture Controllers

Product	Channels	Position Tracking	Additional Features	Proximity	Interface	Voltage	Pin	Package
MGC3030	5	–	Gesture port, auto wake/sleep, touch detection	✓	I ² C/E0I (Gesture port)	3.3V	28	SSOP
MGC3130	5	✓	Gesture port, auto wake/sleep, touch detection	✓	I ² C/E0I (Gesture port)	3.3V	28	QFN

TOUCH AND 3D GESTURE CONTROL: Resistive Touch Controllers

Product	Sensor	Report Rate	Additional Features	Resolution	Interface	Voltage	Pin	Package
AR1011	4, 5 and 8 wire	140 pps	Universal touch controller for analog resistive sensors with on-board calibration	1024 × 1024	UART	2.5–5V	20	QFN, SSOP, SOIC
AR1021	4, 5 and 8 wire	140 pps	Universal touch controller for analog resistive sensors with on-board calibration	1024 × 1024	I ² C, SPI	2.5–5V	20	QFN, SSOP, SOIC
AR1100	4, 5 and 8 wire	140 pps	Universal touch controller for analog resistive sensors with on-board calibration	1024 × 1024	USB, RS-232	2.5–5V	20	QFN, SSOP, SOIC
AR1100BRD	4, 5 and 8 wire	140 pps	Production-ready AR1100 controller board with USB and RS-232 communication	1024 × 1024	USB, RS-232	2.5–5V	20	Controller Board

USB SECURITY

Product	Description	Processor Interface	# of Downstream Ports	Card Formats	Industrial Version	Package
SEC1110	Smart Card Controller	USB 2.0	–	Smart Card	✓	16-pin QFN
SEC1210	Smart Card Controller with Multi-Interface Support	USB 2.0	–	Smart Card ×2	✓	24-pin QFN

TERMS AND DEFINITIONS

1 KB	1024 bytes	ESD	Electrostatic Discharge	PIC32	32-bit Core
1 Kw	1024 words	EUSART	Enhanced Universal Synchronous Asynchronous Receiver Transceiver	PLVID	Programmable Low Voltage Detect
18F/PIC18	16-bit instruction word: 75/83 instructions	EWDT/WDT	Extended Watch Dog Timer/Watch Dog Timer	PMD	Low Power Peripheral Module Disable
ADC	Analog to Digital Converter	HC I/O	High-Current I/O	PMP	Parallel Master Port
ADC²/ADCC	ADC with Computation	HEF	High-Endurance Flash (128B of non-volatile data storage)	POR/PORR	Power ON Reset/Power ON/OFF Reset
AngTMR	Angular Timer	HLT	Hardware Limit Timer	PPS	Peripheral Pin Select
AUSART	Addressable Universal Synchronous Asynchronous Receiver Transceiver	HV	High Voltage	PRG	Programmable Ramp Generator
BL/Baseline	12-bit instruction word: 33 instructions	ICD	In-Circuit Debug	PSMC	Programmable Switch Mode Controller (16-bit PWM)
BOR/PBOR	Brown Out Reset/Programmable Brown Out Reset	ICE	In-Circuit Emulation	PWM	Pulse Width Modulation
BTLE	Bluetooth® Low Energy	ICSP™	In-Circuit Serial Programming™	QEI	Quadrature Encoder Interface
CAN	Controller Area Network	IDE	Integrated Development Environment	RAM	Random Access Memory
CCP/ECCP	Capture Compare PWM/Enhanced Capture Compare PWM	IDLE	Low Power Idle Mode	RTCC	Real-Time Clock Calendar
CLC	Configurable Logic Cell	Inst Amp	Instrumentation Amplifier	SlopeComp	Slope Compensation
COG	Complementary Output Generator	LCD	Liquid Crystal Display	SMT	24-bit Signal Measurement Timer
Comp	Capacitive Sensing implemented via Comparator	LDO	Low Drop-Out voltage regulator	Source/Sink Current	All Products Support 25 mA per I/O
CRC/SCAN	Cyclical Redundancy Check with Memory Scanner	LF	Low-Power Flash	SR Latch	Set Reset Latch
CTMU	mTouch®: Charge Time Measurement Unit	LPBOR	Low-Power Brown Out Reset	SRAM	Static Random Access Memory
CVD	Charge Voltage Divide (Capacitive Sensing Implemented via ADC)	MI²C/I²C	Master Inter-Integrated Circuit bus/Inter-Integrated Circuit bus	SPI	Serial Peripheral Interface
CWG	Complementary Waveform Generator	MathACC	Math Accelerator	TEMP	Temperature Indicator
DAC	Digital-to-Analog Converter	MIPS	Million Instructions Per Second	T1G	Timer 1 Gate
DOZE	Low Power Doze Mode	MR/Mid-Range	14-bit instruction word: 35 instructions	USART	Universal Synchronous Asynchronous Receiver Transceiver
DSM	Data Signal Modulator	MSSP/SSP	Master/Synchronous Serial Port (I ² C & SPI Peripheral)	USB	Universal Serial Bus
dsPIC®	16-bit Core with DSP	mTouch	Proprietary Touch Sensing Technology	USB (Full Speed)	12 Mb/s Data Rate
EBL	Enhanced Baseline	NCO	Numerically Controlled Oscillator	USB OTG	USB On-The-Go
EEPROM	Electrically Erasable Programmable Read Only Memory	Op Amp	Operational Amplifier	WWDT	Window Watch Dog Timer
EMR/Enhanced Mid-Range	14-bit instruction word: 49 instructions (denoted as PIC1XF1XXX)	PIC10/12/16/18	8-bit Core	XLP	nanoWatt XLP eXtreme Low Power Technology
		PIC24	16-bit Core	ZCD	Zero Cross Detection

Product Packages

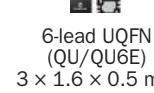
Small Outline									
Dual Flat No Lead (DFN)	 8-lead DFN (MC) $2 \times 3 \times 0.9$ mm	 8-lead TDFN (MN) $2 \times 3 \times 0.75$ mm	 8-lead UDFN (MU) $2 \times 3 \times 0.5$ mm	 8-lead DFN (MF) $3 \times 3 \times 0.9$ mm	 8-lead DFN (MD) $4 \times 4 \times 0.9$ mm	 8-lead DFN (MF) $6 \times 5 \times 0.9$ mm			
Quad Flat No Lead (QFN)	 16-lead QFN (MG) $3 \times 3 \times 0.9$ mm	 16-lead QFN (ML) $4 \times 4 \times 0.9$ mm	 20-lead QFN (ML) $4 \times 4 \times 0.9$ mm	 20-lead QFN (MQ) $5 \times 5 \times 0.9$ mm	 28-lead UQFN (MV) $4 \times 4 \times 0.5$ mm	 28-lead QFN (MQ) $5 \times 5 \times 0.9$ mm	 28-lead QFN (MM & ML) $6 \times 6 \times 0.9$ mm	 40-lead UQFN (MV) $5 \times 5 \times 0.5$ mm	 44-lead QFN (ML) $8 \times 8 \times 0.9$ mm
Plastic Shrink Small Outline (SSOP)	 8-lead MSOP (MS)	 10-lead MSOP (UN)	 16-lead QSOP (QR)	 20-lead SSOP (SS)	 28-lead SSOP (SS)				
Plastic Thin Shrink Small Outline (TSSOP)	 8-lead TSSOP (ST)	 14-lead TSSOP (ST)	 20-lead TSSOP (ST)						
Plastic Small Outline (SOIC)	 8-lead SOIC (SN)	 8-lead SOIC (SM)	 14-lead SOIC (SL)	 16-lead SOIC (SL)	 18-lead SOIC (SO)	 20-lead SOIC (SO)	 28-lead SOIC (SO)		
Very Thin Thermal Leadless Array (VTLA)	 36-lead VTLA (TL) $5 \times 5 \times 0.9$ mm	 44-lead VTLA (TL) $6 \times 6 \times 0.9$ mm	 124-lead VTLA (TL) $9 \times 9 \times 0.9$ mm						

Packages are shown approximate size.

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Product Packages

Plastic Thin Quad Flatpack (TQFP)	 44-lead TQFP (PT) 10 × 10 × 1 mm	 64-lead TQFP (PT) 10 × 10 × 1 mm	 64-lead TQFP (PF) 14 × 14 × 1 mm	 80-lead TQFP (PT) 12 × 12 × 1 mm	 80-lead TQFP (PF) 14 × 14 × 1 mm	 100-lead TQFP (PT) 12 × 12 × 1 mm	 100-lead TQFP (PF) 14 × 14 × 1 mm	 144-lead TQFP (PH) 16 × 16 × 1 mm
Plastic Quad Flatpack (QFP)	 32-lead LQFP (LQ) 7 × 7 × 1.4 mm	 44-lead MQFP (PQ) 10 × 10 × 2 mm	 144-lead LQFP (PL) 20 × 20 × 1.4 mm					
Plastic Dual In-Line (PDIP)	 8-lead PDIP (P)	 14-lead PDIP (P)	 20-lead PDIP (P)	 24-lead PDIP (P)	 28-lead SPDIP (SP)		 40-lead PDIP (P)	
Ball Grid Array (BGA)	 100-ball BGA (BG) 10 × 10 × 1.1 mm	 121-ball BGA (BG) 10 × 10 × 0.8 mm	 100-ball TFBGA* 7 × 7 × 1.2 mm					
Additional Package Options	NOR Flash Memory  8-lead WSON (A6/QAE) 5 × 6 mm	 40-lead TSOP (W8/EIE) 10 × 20 mm	 32-lead PDIP (P2/PHE) 600 mil	RF Devices  48-lead WFBGA (3T/MAQE) 4 × 6 × 0.73 mm	 48-lead TFBGA (8T/B3KE) 6 × 8 × 1.2 mm	 6-lead XSON (QX/QX6E) 1.5 × 1.5 × 0.5 mm	 6-lead UQFN (QU/QU6E) 3 × 1.6 × 0.5 mm	8051-based Microcontrollers  44-lead PLCC (T2/NJE) 0.652 × 0.652 in

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