



Focus Product Selector Guide

Microcontrollers • Digital Signal Controllers • Analog • Memory • Wireless

A circular collage of images illustrating various product support services. The collage is divided into five main sections: Design (a hand in a glove holding a silicon wafer), Training (a man writing on a whiteboard), Resources (a laptop screen displaying the Microchip Product Selector Guide), Development (a circuit board, a USB device, and a CD labeled 'MLAB IDE'), Support (a woman wearing a headset), and Availability (a globe with network points). The collage is set against a blue background with abstract grid patterns.

Design

Training

Resources

Development

Support

Availability

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. The 8-bit PIC MCU portfolio offers product families with varying levels of intelligent integration. We offer devices with Core Independent Peripherals (CLC, CWG/COG, NCO, PSMC, ZCD, and more) that require little to no CPU intervention—freeing the CPU to perform other application tasks, Intelligent Analog (op amps, comparators, ADC, DAC, CTMU), human interface (LCD, mTouch™ technology) and communications (Ethernet, I²C™, SPI, USB, CAN, and LIN EUSARTs). 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.

RF Front End Products

Microchip's selection of RF front end devices enhance the performance and operating range of wireless products at 2.4 and 5 GHz. SST power amplifier products provide high linear output power as required for 802.11 (Wi-Fi®) and 802.15.4 (ZigBee®) standards with industry-leading efficiency and reliability. Our selection of integrated Front End Modules (FEM) combines the functionality of power amplifiers with switches, Low Noise Amplifiers (LNAs) and filters into a single space-saving package. The FEM reduces board complexity and sizes. For more information visit: www.microchip.com/analog.

Wireless Products

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

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.

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 along with onboard EEPROM and SRAM memory. For more information visit: www.microchip.com/clock.

MOST®

Media Oriented Systems Transport (MOST) is the accepted standard in high-bandwidth automotive infotainment systems. MOST 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.

PC System & I/O Controllers

Microchip offers a full line of mobile PC solutions including embedded controllers, keyboard controllers (KBC), mobile I/O controllers and docking products. For more information visit: www.microchip.com/pcsystems.

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8-BIT PIC® MICROCONTROLLERS

Product	Released (R) Not Released (NR)	Pins			Memory			Voltage Range	Operating Speed		mTouch™ Channels	Analog Sensing & Measurement				Digital			Communication			Monitors		5 Ku Pricing†	Packages (Designator)	Special Features															
		Total	I/O	Core	Program	Self-Read/Write	Data RAM (B)		Maximum Speed	Internal Oscillator		8-bit ADC	10-bit ADC	12-bit ADC	Comparators	Charge Time Measurement Unit	Op-Amp	DAC (5b/8b/9b)	PWM	CCP	ECCP	PSMC (16-bit PWM)	CWG/COG	NCO	CLC	8-bit Timer	16-bit Timer	AUSART	EUSART	I²C/SPI	Ethernet (MAC/PHY)	USB 2.0 Device	CAN	Resets	PLVD	SR-Latch	Timer 1 Gate				
6-Pin	PIC10F200	R	6	4	BL	0.375 KB 0.25 Kw	-	16	-	2V-5.5V	4 MHz	4 MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.30	PDIP (P), 2 x 3 DFN (MC), SOT-23 (OT)	Smallest form-factor								
	PIC10F202	R	6	4	BL	0.75 KB 0.50 Kw	-	24	-	2V-5.5V	4 MHz	4 MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.33	PDIP (P), 2 x 3 DFN (MC), SOT-23 (OT)	Smallest form-factor								
	PIC10F204	R	6	4	BL	0.375 KB 0.25 Kw	-	16	-	2V-5.5V	4 MHz	4 MHz	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.33	PDIP (P), 2 x 3 DFN (MC), SOT-23 (OT)	Smallest form-factor								
	PIC10F206	R	6	4	BL	0.75 KB 0.50 Kw	-	24	-	2V-5.5V	4 MHz	4 MHz	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.36	PDIP (P), 2 x 3 DFN (MC), SOT-23 (OT)	Smallest form-factor								
	PIC10F220	R	6	4	BL	0.375 KB 0.25 Kw	-	16	-	2V-5.5V	8 MHz	4 MHz, 8 MHz	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.36	PDIP (P), 2 x 3 DFN (MC), SOT-23 (OT)	Smallest form-factor								
	PIC10F222	R	6	4	BL	0.75 KB 0.50 Kw	-	23	-	2V-5.5V	8 MHz	4 MHz, 8 MHz	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.39	PDIP (P), 2 x 3 DFN (MC), SOT-23 (OT)	Smallest form-factor									
	PIC10F320	R	6	4	MR	0.4375 KB 0.25 Kw	RW	32	-	1.8V-5.5V	16 MHz	16 MHz	-	3	3	-	-	-	-	2	-	-	1/0	1	1	2	1	-	-	-	BOR SW0	\$0.39	PDIP (P), 2 x 3 DFN (MC), SOT-23 (OT)	Temp*							
	PIC10F322	R	6	4	MR	0.875 KB 0.50 Kw	RW	64	-	1.8V-5.5V	16 MHz	16 MHz	-	3	3	-	-	-	-	2	-	-	1/0	1	1	2	1	-	-	-	-	\$0.42	PDIP (P), 2 x 3 DFN (MC), SOT-23 (OT)	Temp*							
8-Pin	PIC12F1571	R	8	6	EMR	1.75 KB 1 Kw	RW	128	HEF	1.8V-5.5V	32 MHz	32 MHz	-	4	-	4	-	1	-	-	1/0/0	3	-	-	1/0	-	-	2	4	-	0	-	-	BOR/POR	-	-	✓	\$0.39	PDIP (P), MSOP (MS), SOIC (SN), 3 x 3 DFN (MF)	3x 16-bit PWMs	
	PIC12F508	R	8	6	BL	0.75 KB 0.50 Kw	-	25	-	2V-5.5V	4 MHz	4 MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.41	PDIP (P), SOIC (SN), MSOP (MS), 2 x 3 DFN (MC)								
	PIC12F1572	R	8	6	EMR	3.5 KB 2 Kw	RW	256	HEF	1.8V-5.5V	32 MHz	32 MHz	-	4	-	4	-	1	-	-	1/0/0	3	-	-	1/0	-	-	2	4	-	1	-	-	BOR/POR	-	-	✓	\$0.43	PDIP (P), MSOP (MS), SOIC (SN), 3 x 3 DFN (MF)	3x 16-bit PWMs	
	PIC12F509	R	8	6	BL	1.5 KB 1 Kw	-	41	-	2V-5.5V	4 MHz	4 MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.45	PDIP (P), SOIC (SN), MSOP (MS), 2 x 3 DFN (MC)									
	PIC12F510	R	8	6	BL	1.5 KB 1 Kw	-	38	-	2V-5.5V	8 MHz	4 MHz, 8 MHz	-	3	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	\$0.49	PDIP (P), SOIC (SN), MSOP (MS), 2 x 3 DFN (MC)									
	PIC12F519	R	8	6	BL	1.5 KB 1 Kw	-	41	64	2V-5.5V	8 MHz	4 MHz, 8 MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.49	PDIP (P), SOIC (SN), MSOP (MS), 2 x 3 DFN (MC)	Lowest cost Data EE									
	PIC12F1501	R	8	6	EMR	1.75 KB 1 Kw	RW	64	HEF	1.8V-5.5V	20 MHz	16 MHz	-	4	-	4	-	1	-	-	-	4	-	-	1/0	1	1	2	1	-	-	-	PBOR SW0	\$0.49	PDIP (P), SOIC (SO), MSOP (MS), 2 x 3 DFN (MC)	Temp*					
	PIC12F609	R	8	6	MR	1.75 KB 1 Kw	-	64	-	2V-15V	20 MHz	4 MHz, 8 MHz	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	BOR SW0	-	-	✓	\$0.52	PDIP (P), SOIC (SN), MSOP (MS), 4 x 4 DFN (MD), 3 x 3 DFN (MF)					
	PIC16F18313 [‡]	NR	8	6	EMR	3.5 KB 2 Kw	RW	256	256	1.8V-5.5V	32 MHz	32 MHz	-	5	-	5	-	1	-	-	1/0/0	2	2	-	-	1/0	1	2	2	1	-	1	-	-	BOR/POR/LPBOR	-	-	✓	\$0.53	PDIP (P), SOIC (SN), DFN (MF), MSOP (MS)	PPS, Idle/Doze
	PIC12F615	R	8	6	MR	1.75 KB 1 Kw	-	64	-	2V-15V	20 MHz	4 MHz, 8 MHz	-	4	-	4	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.55	PDIP (P), SOIC (SN), MSOP (MS), 4 x 4 DFN (MD), 3 x 3 DFN (MF)					
	PIC12F1612 [‡]	R	8	6	EMR	3.5 KB 2 Kw	RW	256	HEF	1.8V-5.5V	32 MHz	32 MHz, 31 kHz	-	4	1	4	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.56	PDIP (P), SOIC (SN), DFN (MC)	CRC, WWDT, SMT, ZCD, HLT				
	PIC12F752	R	8	6	MR	1.75 KB 1 Kw	RW	64	-	2V-5.5V	20 MHz	4 MHz, 8 MHz	-	4	-	4	-	2	-	-	1/0/0	-	1	-	-	0/1	-	-	3	1	-	-	-	-	-	-	\$0.59	PDIP (P), SOIC (SN), DFN (MF)	HV Option		
	PIC12F617	R	8	6	MR	3.5 KB 2 Kw	RW	128	-	2V-5.5V	20 MHz	4 MHz, 8 MHz	-	4	-	4	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.59	PDIP (P), SOIC (SN), MSOP (MS), 3 x 3 DFN (MF)					
	PIC12LF1552 [‡]	R	8	6	EMR	3.5 KB 2 Kw	RW	256	HEF	1.8V-3.6V	32 MHz	16 MHz	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.66	PDIP (P), MSOP (MS), SOIC (SN), 2 x 3 DFN (MC)	Hardware CVD					
	PIC12F629	R	8	6	MR	1.75 KB 1 Kw	-	64	128	2V-5.5V	20 MHz	4 MHz	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.70	PDIP (P), SOIC (SN), 4 x 4 DFN (MD), 6 x 5 DFN (MF)							
	PIC12F1822 [‡]	R	8	6	EMR	3.5 KB 2 Kw	RW	128	256	1.8V-5.5V	32 MHz	32 MHz, 31 kHz	-	4	-	4	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.73	PDIP (P), SOIC (SN), 3 x 3 DFN (MF)	Temp*						
	PIC12F675	R	8	6	MR	1.75 KB 1 Kw	-	64	128	2V-5.5V	20 MHz	4 MHz	-	3	-	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.77	PDIP (P), SOIC (SN), 4 x 4 DFN (MD), 6 x 5 DFN (MF)							
	PIC12F1840 [‡]	R	8	6	EMR	7 KB 4 Kw	RW	256	256	1.8V-5.5V	32 MHz	32 MHz, 31 kHz	-	-	-	4	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.78	PDIP (P), SOIC (SN), 6 x 5 DFN (MF)	DSM, Temp*						
	PIC12F635	R	8	6	MR	1.75 KB 1 Kw	-	64	128	2V-5.5V	20 MHz	8 MHz, 31 kHz	-	3	-	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.84	PDIP (P), SOIC (SN), 4 x 4 DFN (MD)	KeeLoQ®						
	PIC12F683	R	8	6	MR	3.5 KB 2 Kw	-	128	256	2V-5.5V	20 MHz	8 MHz, 31 kHz	-	3	-	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.91	PDIP (P), SOIC (SN), 4 x 4 DFN (MD)							

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		Released (R) Not Released (NR)		Pins		Memory		Operating Speed		LCD Segments mTouch™ Channels		Analog Sensing & Measurement				Digital			Communication			Monitors		Packages (Designator)		Special Features																		
		Total	I/O	Core	Program	Self-Read/Write	Data RAM (B)	Data EE (B)	Voltage Range			8-bit ADC	10-bit ADC	12-bit ADC	Comparators	Charge Time Measurement Unit	Op Amp	DAC (5b/8b/9b)	PWM	CCP	ECCP	PSMC (16-bit PWM)	CWG/COG	NCO	CLC	8-bit Timer	16-bit Timer	AUSART	I²C™/SPI	Ethernet (MAC/PHY)	USB 2.0 Device	CAN	Results	PLVD	SR-Latch	Timer 1 Gate	5 Ku Pricing†							
14-Pin	PIC16LF1554 XLP	NR	14	12	EMR	7KB 4 Kw	RW	256	HEF	1.8V~3.6V	32 MHz	16 MHz	-	11	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.48	PDIP (P), SOIC (SL), TSSOP (ST), 3 x 3 QFN (MG)	Two ADCs, ICD Debug capability, Hardware CVD										
	PIC16F505	R	14	12	BL	1.5 KB 1 Kw	-	72	-	2V~5.5V	20 MHz	4 MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.52	PDIP (P), SOIC (SL), TSSOP (ST), 3 x 3 QFN (MG)												
	PIC16F506	R	14	12	BL	1.5 KB 1 Kw	-	67	-	2V~5.5V	20 MHz	4/8 MHz	-	4	4	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	\$0.55	PDIP (P), SOIC (SL), TSSOP (ST), 3 x 3 QFN (MG)	Lowest cost Data EE											
	PIC16F526	R	14	12	BL	1.5 KB 1 Kw	-	67	64	2V~5.5V	20 MHz	4/8 MHz	-	4	4	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	\$0.55	PDIP (P), SOIC (SL), TSSOP (ST), 3 x 3 QFN (MG)												
	PIC16F1503	R	14	12	EMR	3.5 KB 2 Kw	RW	128	HEF	1.8V~5.5V	20 MHz	16 MHz	-	8	-	8	-	2	-	-	-	4	-	-	1/0	1	1	2	1	-	-	1	-	\$0.55	SOIC (SL), TSSOP (ST)	Temp*								
	PIC16F18323 XLP	NR	14	12	EMR	3.5 KB 2 Kw	RW	256	256	1.8V~5.5V	32 MHz	32 MHz, 32 kHz	-	11	-	11	-	2	-	-	1/0/0	2	2	-	-	1/0	1	2	2	1	-	-	BOR	-	-	✓	\$0.57	TSSOP (ST), SOIC (SL), QFN (ML), PDIP (P)	PPS, Idle/Doze					
	PIC16F610	R	14	12	MR	1.75 KB 1 Kw	-	64	-	2V~15V	20 MHz	4/8 MHz	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	BOR	-	✓	✓	\$0.59	PDIP (P), SOIC (SL), TSSOP (ST), 4 x 4 QFN (ML)							
	PIC16F1613 XLP	R	14	13	EMR	3.5 KB 2 Kw	RW	256	HEF	1.8V~5.5V	32 MHz	32 MHz, 31 kHz	-	8	1	8	-	2	-	-	-	-	-	-	1/0	-	-	1	-	-	-	-	PBOR	-	-	✓	\$0.60	PDIP (P), TSSOP (ST), SOIC (SN), 4 x 4 QFN (MC)	CRC, WWDT, SMT, ZCD, HLT					
	PIC16F1703 XLP	R	14	12	EMR	3.5 KB 2 Kw	RW	256	HEF	1.8V~5.5V	32 MHz	16 MHz	-	8	-	8	-	0	-	2	0/0/0	-	2	-	-	0/0	-	-	2	1	-	-	1	-	POR/LPBOR	-	-	✓	\$0.62	PDIP (P), TSSOP (ST), 4 x 4 QFN (ML), SOIC (SL)	Zero Cross Detect, Peripheral Pin Select			
	PIC16F753	R	14	12	MR	3.5 KB 2 Kw	RW	128	-	2V~5.5V	20 MHz	4/8 MHz	-	8	-	8	-	2	-	1	0/0/1	-	1	1	-	0/1	-	-	3	1	-	-	-	-	BOR	SW0	-	✓	\$0.63	PDIP (P), SOIC (SL), TSSOP (ST), 4 x 4 QFN (ML)	HV Option, Slope compensation			
	PIC16F18324 XLP	NR	14	12	EMR	7 KB 4 Kw	RW	512	256	1.8V~5.5V	32 MHz	32 MHz, 32 kHz	-	11	-	11	-	2	-	-	1/0/0	2	2	-	-	2/0	1	4	4	3	-	1	1	-	-	BOR/POR/LPBOR	-	-	✓	\$0.64	TSSOP (ST), SOIC (SL), QFN (ML), PDIP (P)	PPS, Idle/Doze		
	PIC16F1704 XLP	R	14	12	EMR	7 KB 4 Kw	RW	512	HEF	1.8V~5.5V	32 MHz	16 MHz	-	8	-	8	-	2	-	2	0/1/0	2	2	-	-	0/1	-	3	4	1	-	1	1	-	-	POR/LPBOR	-	-	✓	\$0.67	PDIP (P), TSSOP (ST), 4 x 4 QFN (ML), SOIC (SL)	Zero Cross Detect, Peripheral Pin Select		
	PIC16F616	R	14	12	MR	3.5 KB 2 Kw	-	128	-	2V~15V	20 MHz	4/8 MHz	-	8	-	8	-	2	-	-	-	-	-	-	1	-	-	-	-	-	2	1	-	-	-	BOR	SW0	✓	✓	\$0.69	PDIP (P), SOIC (SL), TSSOP (ST), 4 x 4 QFN (ML)			
	PIC16F18325 XLP	NR	14	12	EMR	14 KB 8 Kw	RW	1024	256	1.8V~5.5V	32 MHz	32 MHz, 32 kHz	-	11	-	11	-	2	-	-	1/0/0	2	2	-	-	2/0	1	4	4	3	-	1	2	-	-	BOR/POR/LPBOR	-	-	✓	\$0.71	TSSOP (ST), SOIC (SL), QFN (ML), PDIP (P)	PPS, Idle/Doze		
	PIC16F1705 XLP	NR	14	12	EMR	14 KB 8 Kw	RW	1K	HEF	1.8V~5.5V	32 MHz	16 MHz	-	8	-	8	-	2	-	2	0/1/0	2	2	-	-	0/1	-	3	4	1	-	1	1	-	-	POR/LPBOR	-	-	✓	\$0.73	PDIP (P), TSSOP (ST), 4 x 4 QFN (ML), SOIC (SL)	Zero Cross Detect, Peripheral Pin Select		
	PIC16F1823 XLP	R	14	12	EMR	3.5 KB 2 Kw	RW	128	256	1.8V~5.5V	32 MHz	32 MHz, 31 kHz	-	8	-	8	-	2	-	-	-	-	-	-	1	-	-	-	-	-	2	1	-	1	1	-	-	BOR	SW0	✓	✓	\$0.78	PDIP (P), SOIC (SL), TSSOP (ST), 4 x 4 QFN (ML)	Temp*
	PIC16F1824 XLP	R	14	12	EMR	7 KB 4 Kw	RW	256	256	1.8V~5.5V	32 MHz	32 MHz, 31 kHz	-	8	-	8	-	2	-	-	-	-	-	-	2	2	-	-	-	-	4	1	-	1	1	-	-	BOR	SW0	✓	✓	\$0.84	PDIP (P), SOIC (SL), TSSOP (ST), 4 x 4 QFN (ML)	DSM, Temp*
	PIC16F1454 XLP	R	14	12	EMR	7 KB 4 Kw	RW	512	-	1.8V~5.5V	48 MHz	48 MHz, 31 kHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PDIP (P), SOIC (SL), TSSOP (ST), 4 x 4 QFN (ML)	Crystal Free USB							
	PIC16F630	R	14	12	MR	1.75 KB 1 Kw	-	64	128	2V~5.5V	20 MHz	4 MHz	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PDIP (P), SOIC (SL), TSSOP (ST), 4 x 4 QFN (ML)									
	PIC16F1825 XLP	R	14	12	EMR	14 KB 8 Kw	RW	1024	256	1.8V~5.5V	32 MHz	32 MHz, 31 kHz	-	8	-	8	-	2	-	-	-	-	-	-	2	2	-	-	-	-	4	1	-	1	1	-	-	BOR	SW0	✓	✓	\$0.92	PDIP (P), SOIC (SL), TSSOP (ST), 4 x 4 QFN (ML)	DSM, Temp*
	PIC16F636	R	14	12	MR	3.5 KB 2 Kw	-	128	256	2V~5.5V	20 MHz	8 MHz, 31 kHz	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	KeeLoQ®								
	PIC16F676	R	14	12	MR	1.75 KB 1 Kw	-	64	128	2V~5.5V	20 MHz	4 MHz	-	8	-	8	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PDIP (P), SOIC (SL), TSSOP (ST), 4 x 4 QFN (ML)									
	PIC16F684	R	14	12	MR	3.5 KB 2 Kw	-	128	256	2V~5.5V	20 MHz	8 MHz, 31 kHz	-	8	-	8	-	2	-	-	-	-	-	-	1	-	-	-	-	-	2	1	-	-	-	-	BOR	SW0	✓	✓	\$0.98	PDIP (P), SOIC (SL), TSSOP (ST), 4 x 4 QFN (ML)		
	PIC16F1455 XLP	R	14	12	EMR	14 KB 8 Kw	RW	1024	-	1.8V~5.5V	48 MHz	48 MHz, 31 kHz	-	5	-	5	-	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	PDIP (P), SOIC (SL), TSSOP (ST), 4 x 4 QFN (ML)	Crystal Free USB							
	PIC16F688	R	14	12	MR	7 KB 4 Kw	R	256	256	2V~5.5V	20 MHz	8 MHz, 31 kHz	-	8	-	8	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PDIP (P), SOIC (SL), TSSOP (ST), 4 x 4 QFN (ML)								
18-Pin	PIC16F54	R	18	12	BL	0.75 KB 0.50 Kw	-	25	-	2V~5.5V	20 MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.39	PDIP (P), SOIC (SO), SSOP (SS)									
	PIC16F1826 XLP	R	18	16	EMR	3.5 KB 2 Kw	RW	256	256	1.8V~5.5V	32 MHz	32 MHz, 31 kHz	-	12	-	12	-	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)	DSM, Temp*								
	PIC16F1827 XLP	R	18	16	EMR	7 KB 4 Kw	RW	384	256	1.8V~5.5V	32 MHz	32 MHz, 31 kHz	-	12	-	12	-	2	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)	DSM, Temp*									
	PIC16F1847 XLP	R	18	16	EMR	14 KB 8 Kw	RW	1024	256	1.8V~5.5V	32 MHz	32 MHz, 31 kHz	-	12	-	12	-	2	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML), UQFN (MV)	DSM, Temp*									

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.

8-BIT PIC® MICROCONTROLLERS

Product	Released (R) Not Released (NR)		Pins		Memory		Operating Speed		LCD Segments		Analog Sensing & Measurement		Digital		Communication		Monitors		Packages (Designator)		Special Features																					
	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	Comparators	Charge Time Measurement Unit	Op Amp	DAC (5b/8b/9b)	PWM	CCP	ECCP	PSMC (16-bit PWM)	CWG/CGOG	NCO	CLC	8-bit Timer	16-bit Timer	AUSART	EUSART	I²C™/SPI	Ethernet (MAC/PHY)	USB 2.0 Device	CAN	Resets	PLVD	SP-Latch	Timer 1 Gate	5-kHz Pricing†					
20-Pin	PIC16LF1559	NR	20	18	EMR	14 KB 8 Kw	RW	512	HEF	1.8V~3.6V	32 MHz	16 MHz	-	17	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	call for pricing	PDIP (P), SSOP (SS), 4 x 4 QFN (ML)	Two ADCs, ICD Debug capability, Hardware CVD							
	PIC16F527	R	20	18	EBL	1.5 KB 1 Kw	RW	68	64	2V~5.5V	20 MHz	8 MHz	-	8	8	-	-	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	\$0.49	PDIP (P), 4 x 4 QFN (ML), SSOP (SS), SOIC (SO)								
	PIC16F1507	R	20	18	EMR	3.5 KB 2 Kw	RW	128	HEF	1.8V~5.5V	20 MHz	16 MHz	-	12	-	12	-	-	-	-	4	-	-	1/0	1	1	2	1	-	-	-	-	PBOR	SW	-	✓	\$0.69	PDIP (P), SOIC (SO), SSOP, 4 x 4 QFN (ML)	Temp*			
	PIC16F18344	NR	20	18	EMR	7 KB 4 Kw	RW	512	256	1.8V~5.5V	32 MHz	32 MHz, 32 kHz	-	17	-	17	-	2	-	-	1/0/0	2	4	-	-	2/0	1	4	4	3	-	1	1	-	-	BOR/LPBOR	-	-	✓	\$0.70	SSOP (SS), SOIC (SL), QFN (ML), PDIP (P)	PPS, Idle/Doze
	PIC16F18345	NR	20	18	EMR	14 KB 8 Kw	RW	1024	256	1.8V~5.5V	32 MHz	32 MHz, 32 kHz	-	17	-	17	-	2	-	-	1/0/0	2	4	-	-	2/0	1	4	4	3	-	1	2	-	-	BOR/LPBOR	-	-	✓	\$0.77	SSOP (SS), SOIC (SL), QFN (ML), PDIP (P)	PPS, Idle/Doze
	PIC16F720	R	20	18	MR	3.5 KB 2 Kw	RW	128	-	1.8V~5.5V	16 MHz	16 MHz, 500 kHz	-	12	12	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	BOR	SW0	-	✓	\$0.77	PDIP (P), SOIC (SO), SSOP, 4 x 4 QFN (ML)	Temp*					
	PIC16F1508	R	20	18	EMR	7 KB 4 Kw	RW	256	HEF	1.8V~5.5V	20 MHz	16 MHz	-	2	-	12	-	2	-	-	4	-	-	1/0/0	1	1	2	1	-	1	1	-	-	PBOR	SW	-	✓	\$0.77	PDIP (P), SOIC (SO), SSOP, 4 x 4 QFN (ML)	Temp*		
	PIC16F1707	R	20	18	EMR	3.5 KB 2 Kw	RW	256	HEF	1.8V~5.5V	32 MHz	16 MHz	-	8	-	8	-	0	-	2	0/0/0	-	2	-	-	0/0	-	-	2	1	-	1	-	-	POR/LPBOR	-	-	✓	\$0.77	PDIP (P), 4 x 4 QFN (ML), SOIC (SO), SSOP (SS)	Zero Cross Detect, Peripheral Pin Select	
	PIC16F1509	R	20	18	EMR	14 KB 8 Kw	RW	512	HEF	1.8V~5.5V	20 MHz	16 MHz	-	2	-	12	-	2	-	-	4	-	-	-	1/0	1	1	2	1	-	1	1	-	-	PBOR	SW	-	✓	\$0.81	PDIP (P), SOIC (SO), SSOP, 4 x 4 QFN (ML)	Temp*	
	PIC16F1708	R	20	18	EMR	7 KB 4 Kw	RW	512	HEF	1.8V~5.5V	32 MHz	16 MHz	-	12	-	12	-	2	-	2	0/1/0	2	2	-	-	0/1	-	3	4	1	-	1	1	-	-	POR/LPBOR	-	-	✓	\$0.83	PDIP (P), 4 x 4 QFN (ML), SOIC (SO), SSOP (SS)	Zero Cross Detect, Peripheral Pin Select
	PIC16F721	R	20	18	MR	7 KB 4 Kw	RW	256	-	1.8V~5.5V	16 MHz	16 MHz, 500 kHz	-	12	12	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	BOR	SW0	-	✓	\$0.84	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)	Temp*					
	PIC16F1709	NR	20	18	EMR	14 KB 8 Kw	RW	1K	HEF	1.8V~5.5V	32 MHz	16 MHz	-	12	-	12	-	2	-	2	0/1/0	2	2	-	-	0/1	-	3	4	1	-	1	1	-	-	POR/LPBOR	-	-	✓	\$0.88	PDIP (P), 4 x 4 QFN (ML), SOIC (SO), SSOP (SS)	Zero Cross Detect, Peripheral Pin Select
	PIC16F631	R	20	18	MR	1.75 KB 1 Kw	R	64	128	2V~5.5V	20 MHz	8 MHz, 31 kHz	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	BOR	SW0	✓	✓	\$0.91	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)					
	PIC16F1828	R	20	18	EMR	7 KB 4 Kw	RW	256	256	1.8V~5.5V	32 MHz	32 MHz, 31 kHz	-	12	-	12	-	2	-	-	-	2	2	-	-	-	-	-	-	-	-	BOR	SW0	✓	✓	\$0.99	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)	DSM, Temp*				
	PIC16F677	R	20	18	MR	3.5 KB 2 Kw	R	128	256	2V~5.5V	20 MHz	8 MHz, 31 kHz	-	12	-	12	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	BOR	SW0	✓	✓	\$0.99	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)					
	PIC16F1829	R	20	18	EMR	14 KB 8 Kw	RW	1024	256	1.8V~5.5V	32 MHz	32 MHz, 31 kHz	-	12	-	12	-	2	-	-	-	2	2	-	-	-	-	-	-	-	-	BOR	SW0	✓	✓	\$1.06	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)	DSM, Temp*				
	PIC16F687	R	20	18	MR	3.5 KB 2 Kw	R	128	256	2V~5.5V	20 MHz	8 MHz, 31 kHz	-	12	-	12	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BOR	SW0	✓	✓	\$1.07	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)				
	PIC16F785	R	20	18	MR	3.5 KB 2 Kw	-	128	256	2V~15V	20 MHz	8 MHz, 31 kHz	-	12	-	12	-	2	-	2	-	2	1	-	-	-	-	-	-	-	-	-	BOR	SW0	-	✓	\$1.12	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)				
	PIC16F685	R	20	18	MR	7 KB 4 Kw	R	256	256	2V~5.5V	20 MHz	8 MHz, 31 kHz	-	12	-	12	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	BOR	SW0	✓	✓	\$1.13	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)				
	PIC16F689	R	20	18	MR	7 KB 4 Kw	R	256	256	2V~5.5V	20 MHz	8 MHz, 31 kHz	-	12	-	12	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BOR	SW0	✓	✓	\$1.13	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)				
	PIC16F1459	R	20	18	EMR	14 KB 8 Kw	RW	1024	-	1.8V~5.5V	48 MHz	48 MHz, 31 kHz	-	9	-	9	-	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	PBOR	SW0	-	✓	\$1.18	PDIP (P), SOIC (SO), SSOP (SS), 4 x 4 QFN (ML)	Crystal Free USB			
	PIC16F690	R	20	18	MR	7 KB 4 Kw	R	256	256	2V~5.5V	20 MHz	8 MHz, 31 kHz	-	12	-	12	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	BOR	SW0	✓	✓	\$1.20	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)				
	PIC18F13K22	R	20	18	PIC18	8 KB 4 Kw	RW	256	256	1.8V~5.5V	64 MHz	64 MHz, 31 kHz	-	12	-	12	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	PBOR	SW0	✓	-	\$1.33	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)				
	PIC18F13K50	R	20	15	PIC18	8 KB 4 Kw	RW	512	256	1.8V~5.5V	48 MHz	32 MHz, 31 kHz	-	9	-	9	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	PBOR	SW0	✓	-	\$1.39	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)				
	PIC18F14K22	R	20	18	PIC18	16 KB 8 Kw	RW	512	256	1.8V~5.5V	64 MHz	64 MHz, 31 kHz	-	12	-	12	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	PBOR	SW0	✓	-	\$1.47	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)				
	PIC18F14K50	R	20	15	PIC18	16 KB 8 Kw	RW	768	256	1.8V~5.5V	48 MHz	32 MHz, 31 kHz	-	9	-	9	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	PBOR	SW0	✓	-	\$1.53	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.

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

‡ eXtreme Low Power variants available.

Product		Released (R) Not Released (NR)		Pins		Memory		Operating Speed		Analog Sensing & Measurement		Digital		Communication		Monitors		Special Features																							
		Total	I/O	Core	Program	Self-Read/Write	Data RAM (B)	Data EEPROM (B)	Voltage Range	Maximum Speed	Internal Oscillator	mTouch™ Channels	8-bit ADC	10-bit ADC	12-bit ADC	Comparators	Charge Time Measurement Unit	Op-Amp	DAC (5b/8b/9b)	PWM	CCP	ECCP	PSMC (16-bit PWM)	CWCG/COG	NCO	CLC	8-bit Timer	16-bit Timer	AUSART	EUSART	I²C™/SPI	Ethernet (MAC/PHY)	USB 2.0 Device	CAN	Resets	PLVD	SP-Latch	Timer 1 Gate	5-kHz Pricing†	Packages (Designator)	
28-Pin	PIC16F57	R	28	20	BL	3 KB 2 Kbytes	-	72	-	2V–5.5V	20 MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.52	SPDIP (SP), SOIC (SO), SSOP (SS)									
	PIC16F570	R	28	25	BL	3 KB 2 Kbytes	RW	132	64	2V–5.5V	20 MHz	8 MHz	-	8	8	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	\$0.60	SPDIP (P), 6 × 6 QFN (ML), SSOP (SS), SOIC (SO)									
	PIC16F722A XLP	R	28	25	MR	3.5 KB 2 Kbytes	R	128	-	1.8V–5.5V	20 MHz	16 MHz	-	11	11	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	\$0.78	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML), 4 × 4 UQFN (MV)	Temp*							
	PIC16LF1902 XLP	R	28	25	EMR	3.5 KB 2 Kbytes	RW	128	-	1.8V–3.6V	20 MHz	16 MHz	72	11	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.78	SPDIP (SP), SOIC (SO), SSOP (SS), 4 × 4 UQFN (MV)	Temp*								
	PIC16F1512 XLP	R	28	25	EMR	3.5 KB 2 Kbytes	RW	128	HEF	1.8V–5.5V	20 MHz	16 MHz, 31 kHz	-	17	-	17	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	\$0.81	SPDIP (SP), SOIC (SO), SSOP (SS), 4 × 4 UQFN (MV)	Temp*							
	PIC16F723A XLP	R	28	25	MR	7 KB 4 Kbytes	R	192	-	1.8V–5.5V	20 MHz	16 MHz	-	11	11	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	\$0.85	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML), 4 × 4 UQFN (MV)	Temp*								
	PIC16LF1903 XLP	R	28	25	EMR	7 KB 4 Kbytes	RW	256	-	1.8V–3.6V	20 MHz	16 MHz	72	11	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.85	SPDIP (SP), SOIC (SO), SSOP (SS), 4 × 4 UQFN (MV)	Temp*									
	PIC16F1513 XLP	R	28	25	EMR	7 KB 4 Kbytes	RW	256	HEF	1.8V–5.5V	20 MHz	16 MHz, 31 kHz	-	17	-	17	-	-	-	-	-	2	-	-	-	-	-	-	-	-	\$0.88	SPDIP (SP), SOIC (SO), SSOP (SS), 4 × 4 UQFN (MV)	Temp*								
	PIC16LF1906 XLP	R	28	25	EMR	14 KB 8 Kbytes	RW	512	-	1.8V–3.6V	20 MHz	16 MHz	72	11	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.91	SPDIP (SP), SOIC (SO), SSOP (SS), 4 × 4 UQFN (MV)	Temp*									
	PIC16F1713 XLP	R	28	25	EMR	7 KB 4 Kbytes	RW	512	HEF	1.8V–5.5V	32 MHz	16 MHz	-	17	-	17	-	2	-	2	1/1/0	2	2	-	0/1	1	4	4	1	-	1	1	-	\$0.92	SOIC (SO), SSOP (SS), SPDIP (SP), 6 × 6 QFN (ML), 4 × 4 UQFN (MV)	Zero Cross Detect, Peripheral Pin Select					
	PIC16F1516 XLP	R	28	25	EMR	14 KB 8 Kbytes	RW	512	HEF	1.8V–5.5V	20 MHz	16 MHz	-	17	-	17	-	-	-	-	2	-	-	-	-	-	-	-	-	\$0.95	SPDIP (SP), SOIC (SO), SSOP (SS), 4 × 4 UQFN (MV)	Temp*									
	PIC16F1716 XLP	R	28	25	EMR	14 KB 8 Kbytes	RW	1K	HEF	1.8V–5.5V	32 MHz	16 MHz	-	17	-	17	-	2	-	2	1/1/0	2	2	-	0/1	1	4	4	1	-	1	1	-	\$0.98	SOIC (SO), SSOP (SS), SPDIP (SP), 6 × 6 QFN (ML), 4 × 4 UQFN (MV)						
	PIC16F1518 XLP	R	28	25	EMR	28 KB 16 Kbytes	RW	1K	HEF	1.8V–5.5V	20 MHz	16 MHz	-	17	-	17	-	-	-	-	2	-	-	-	-	-	-	-	-	\$1.01	SPDIP (SP), SOIC (SO), SSOP (SS), 4 × 4 UQFN (MV)	Temp*									
	PIC16F1718 XLP	NR	28	25	EMR	28 KB 16 Kbytes	RW	2K	HEF	1.8V–5.5V	32 MHz	16 MHz	-	17	-	17	-	2	-	2	1/1/0	2	2	-	0/1	1	4	4	1	-	1	1	-	\$1.05	SOIC (SO), SSOP (SS), SPDIP (SP), 6 × 6 QFN (ML), 4 × 4 UQFN (MV)						
	PIC16F882	R	28	25	MR	3.5 KB 2 Kbytes	RW	128	128	2V–5.5V	20 MHz	8 MHz, 31 kHz	-	11	-	11	-	2	-	-	-	1	1	-	-	-	-	-	-	-	\$1.16	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML)									
	PIC16F726 XLP	R	28	25	MR	14 KB 8 Kbytes	R	368	-	1.8V–5.5V	20 MHz	16 MHz	-	11	11	-	-	-	-	-	2	-	-	-	-	-	-	-	-	\$1.23	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML), 4 × 4 UQFN (MV)	Temp*									
	PIC16F1782 XLP	R	28	25	EMR	3.5 KB 2 Kbytes	RW	256	256	1.8V–5.5V	32 MHz	32 MHz	-	11	-	11	3	-	2	0/1/0	-	2	-	2	-	-	-	-	-	BOR	SW0	✓	✓	\$1.23	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML), 4 × 4 UQFN (MV)						
	PIC16F1933 XLP	R	28	25	EMR	7 KB 4 Kbytes	RW	256	256	1.8V–5.5V	32 MHz	32 MHz, 31 kHz	60	11	-	11	-	2	-	-	-	2	3	-	-	-	-	4	1	-	1	1	-	-	PBOR	SW0	✓	✓	\$1.23	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML), 4 × 4 UQFN (MV)	Temp*
	PIC18F23K20 XLP	R	28	25	PIC18	8 KB 4 Kbytes	RW	512	256	1.8V–3.6V	64 MHz	16 MHz, 31 kHz	-	11	-	11	-	2	-	-	-	1	1	-	-	-	-	1	3	-	1	1	-	-	BOR	✓	-	-	\$1.23	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML), 4 × 4 UQFN (MV)	
	PIC16F1783 XLP	R	28	25	EMR	7 KB 4 Kbytes	RW	512	256	1.8V–5.5V	32 MHz	32 MHz	-	11	-	11	3	-	2	0/1/0	-	2	-	2	-	-	-	2	1	-	1	1	-	-	BOR	SW0	✓	✓	\$1.30	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML), 4 × 4 UQFN (MV)	
	PIC16F1936 XLP	R	28	25	EMR	14 KB 8 Kbytes	RW	512	256	1.8V–5.5V	32 MHz	32 MHz, 31 kHz	60	11	-	11	-	2	-	-	-	2	3	-	-	-	-	4	1	-	1	1	-	-	PBOR	SW0	✓	✓	\$1.30	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML), 4 × 4 UQFN (MV)	Temp*
	PIC18F24K20 XLP	R	28	25	PIC18	16 KB 8 Kbytes	RW	768	256	1.8V–3.6V	64 MHz	16 MHz, 31 kHz	-	11	-	11	-	2	-	-	-	1	1	-	-	-	-	1	3	-	1	1	-	-	PBOR	✓	-	-	\$1.30	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML)	
	PIC16F883	R	28	25	MR	7 KB 4 Kbytes	RW	256	256	2V–5.5V	20 MHz	8 MHz, 31 kHz	-	11	-	11	-	2	-	-	-	1	1	-	-	-	-	2	1	-	1	1	-	-	BOR	SW0	✓	✓	\$1.37	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML)	
	PIC16F1786 XLP	R	28	25	EMR	14 KB 8 Kbytes	RW	1024	256	1.8V–5.5V	32 MHz	32 MHz	-	11	-	11	4	-	2	0/1/0	-	3	-	3	-	-	-	2	1	-	1	1	-	-	BOR	SW0	-	✓	\$1.37	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML)	
	PIC16F1938 XLP	R	28	25	EMR	28 KB 16 Kbytes	RW	1024	256	1.8V–5.5V	32 MHz	32 MHz, 31 kHz	60	11	-	11	-	2	-	-	-	2	3	-	-	-	-	4	1	-	1	1	-	-	PBOR	SW0	✓	✓	\$1.37	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML), 4 × 4 UQFN (MV)	Temp*
	PIC18F25K20 XLP	R	28	25	PIC18	32 KB 16 Kbytes	RW	1536	256	1.8V–3.6V	64 MHz	16 MHz, 31 kHz	-	11	-	11	-	2	-	-	-	1	1	-	-	-	-	1	3	-	1	1	-	-	PBOR	✓	-	-	\$1.37	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML)	
	PIC18F23K22 XLP	R	28	25	PIC18	8 KB 4 Kbytes	RW	512	256	1.8V–5.5V	64 MHz	16 MHz, 31 kHz	-	17	-	17	-	2	✓	-	-	1	1	-	-	-	-	3	-	2	2	-	-	PBOR	✓	✓	✓	\$1.41	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML), 4 × 4 UQFN (MV)		
	PIC18F24J10	R	28	21	PIC18	16 KB 8 Kbytes	RW	1024	-	2V–3.6V	40 MHz	32 kHz	-	10	-	10	-	2	-	-	-	2	-	-	-	-	-	2	-	1	1	-	-	BOR	-	-	-	\$1.44	SPDIP (SP), SOIC (SO), 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.

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

‡ eXtreme Low Power variants available.

8-BIT PIC® MICROCONTROLLERS

Product	Released (R) Not Released (NR)	Pins		Memory			Voltage Range	Operating Speed		LCD Segments mTouch™ Channels	Analog Sensing & Measurement				Digital			Communication			Monitors		SR-Latch	Timer 1 Gate	PLVD	5 Ku Pricing†	Packages (Designator)	Special Features										
		Total	I/O	Core	Program	Self-Read/Write		Maximum Speed	Internal Oscillator		8-bit ADC	10-bit ADC	12-bit ADC	Comparators	Charge Time Measurement Unit	Op Amp	DAC (5b/8b/9b)	PWM	CCP	ECCP	PSMC (16-bit PWM)	CWG/COG	NCO	CLC	8-bit Timer	16-bit Timer	AUSART	EUSART	I²C™/SPI	Ethernet (MAC/PHY)	USB 2.0 Device	CAN	Resets					
28Pin (Cont.)	PIC16F1788	R	28	25	EMR	28 KB 16 Kw	RW	2K	256	1.8V-5.5V	32 MHz	32 MHz	-	11	-	-	-	1	1	-	-	-	-	-	3	-	2	2	-	-	PBOR	✓	✓	\$1.44	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML)			
	PIC18F24K22	R	28	25	PIC18	16 KB 8 Kw	RW	768	256	1.8V-5.5V	64 MHz	16 MHz, 31 kHz	-	17	-	17	-	2	✓	-	-	-	-	-	1	1	-	-	-	-	-	-	-	\$1.48	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML), 4 x 4 UQFN(MV)			
	PIC16F886	R	28	25	MR	14 KB 8 Kw	RW	368	256	2V-5.5V	20 MHz	8 MHz, 31 kHz	-	11	-	11	-	2	-	-	-	-	-	-	1	1	-	-	-	-	-	-	\$1.49	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML)				
	PIC18F25J10	R	28	21	PIC18	32 KB 16 Kw	RW	1024	-	2V-3.6V	40 MHz	32 kHz	-	10	-	10	-	2	-	-	-	-	-	-	2	-	1	1	-	-	BOR	-	-	\$1.58	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)			
	PIC18F25K22	R	28	25	PIC18	32 KB 16 Kw	RW	1536	256	1.8V-5.5V	64 MHz	16 MHz, 31 kHz	-	17	-	17	-	2	✓	-	-	-	-	-	2	3	-	-	-	-	-	-	PBOR	✓	✓	\$1.62	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML)	
	PIC18F24J11	R	28	21	PIC18	16 KB 8 Kw	RW	3800	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	-	10	-	10	-	2	✓	-	-	-	-	-	2	-	1	1	-	-	BOR	SW0	✓	\$1.65	SPDIP (SP), SOIC (SO), QFN (ML)			
	PIC18F24K50	R	28	25	PIC18	16 KB 8 Kw	RW	2K	256	1.8V-5.5V	48 MHz	48 MHz	-	14	-	14	-	2	✓	-	-	-	-	-	1	1	-	-	-	-	-	-	\$1.65	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML)				
	PIC18F26K20	R	28	25	PIC18	64 KB 32 Kw	RW	3936	1024	1.8V-3.6V	64 MHz	16 MHz, 31 kHz	-	11	-	11	-	2	-	-	-	-	-	-	1	1	-	-	-	-	-	PBOR	✓	-	\$1.65	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML)		
	PIC18F25K50	R	28	25	PIC18	16 KB 16 Kw	RW	2K	256	1.8V-5.5V	48 MHz	48 MHz	-	14	-	14	-	2	✓	-	-	-	-	-	1	1	-	-	-	-	-	-	\$1.76	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML)				
	PIC18F25J11	R	28	21	PIC18	32 KB 16 Kw	RW	3800	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	-	10	-	10	-	2	✓	-	-	-	-	-	2	-	1	1	-	-	BOR	SW0	-	\$1.79	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)			
	PIC18F24J50	R	28	22	PIC18	16 KB 8 Kw	RW	3800	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	-	10	-	10	-	2	✓	-	-	-	-	-	2	-	1	1	-	-	BOR	SW0	-	\$1.86	SPDIP (SP), SOIC (SO), QFN (ML)			
	PIC18F26K22	R	28	25	PIC18	64 KB 32 Kw	RW	3896	1024	1.8V-5.5V	64 MHz	16 MHz, 31 kHz	-	17	-	17	-	2	✓	-	-	-	-	-	2	3	-	-	-	-	-	PBOR	✓	✓	\$1.92	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML)		
	PIC18F25K80	R	28	24	PIC18	32 KB 16 Kw	RW	3648	1024	1.8V-5.5V	64 MHz	8 MHz, 31 kHz	-	8	-	-	8	2	✓	-	-	-	-	-	4	1	-	-	-	-	-	PBOR	✓	-	\$1.93	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)		
	PIC18F25J50	R	28	22	PIC18	32 KB 16 Kw	RW	3800	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	-	10	-	10	-	2	✓	-	-	-	-	-	2	3	-	2	2	-	-	BOR	SW0	-	\$2.00	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)		
	PIC18F26J11	R	28	21	PIC18	64 KB 32 Kw	RW	3800	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	-	10	-	10	-	2	✓	-	-	-	-	-	2	3	-	2	2	-	-	BOR	SW0	-	\$2.07	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)		
	PIC18F26K80	R	28	24	PIC18	64 KB 32 Kw	RW	3648	1024	1.8V-5.5V	64 MHz	8 MHz, 31 kHz	-	8	-	-	8	2	✓	-	-	-	-	-	4	1	-	-	-	-	-	PBOR	✓	-	\$2.21	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)		
	PIC18F26J13	R	28	23	PIC18	64 KB 32 Kw	RW	3808	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	-	10	-	-	10	3	✓	-	-	-	-	-	7	3	-	-	-	-	-	BOR	✓	-	\$2.24	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)		
	PIC18F26J50	R	28	22	PIC18	64 KB 32 Kw	RW	3800	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	-	10	-	10	-	2	✓	-	-	-	-	-	2	3	-	2	2	-	-	BOR	SW0	-	\$2.28	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)		
	PIC18F26J53	R	28	22	PIC18	64 KB 32 Kw	RW	3808	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	-	10	-	-	10	3	✓	-	-	-	-	-	7	3	-	-	-	-	-	PBOR	✓	-	\$2.45	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)		
	PIC18F27J13	R	28	23	PIC18	128 KB 64 Kw	RW	3808	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	-	10	-	-	10	3	✓	-	-	-	-	-	7	3	-	-	-	-	-	PBOR	✓	-	\$2.48	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)		
	PIC18F27J53	R	28	22	PIC18	128 KB 64 Kw	RW	3808	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	-	10	-	-	10	3	✓	-	-	-	-	-	7	3	-	-	-	-	-	PBOR	✓	-	\$2.69	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)		
40/44Pin	PIC16F59	R	40	32	BL	3 KB 2 Kw	-	134	-	2V-5.5V	20 MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$0.85	PDIP (P), TQFP (PT)					
	PIC16LF1904	R	40	36	EMR	7 KB 4 Kw	RW	256	-	1.8V-3.6V	20 MHz	16 MHz	116	14	-	14	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	\$1.19	PDIP (P), TQFP (PT), 5 x 5 UQFN (MV)			
	PIC16LF1907	R	40	36	EMR	14 KB 8 Kw	RW	512	-	1.8V-3.6V	20 MHz	16 MHz	116	14	-	14	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	\$1.25	PDIP (P), TQFP (PT), 5 x 5 UQFN (MV)				
	PIC16F1517	R	40	36	EMR	14 KB 8 Kw	RW	512	HEF	1.8V-5.5V	20 MHz	16 MHz	-	28	-	28	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	PBOR	SW	✓	\$1.32	PDIP (P), TQFP (PT), 5 x 5 UQFN (MV)		
	PIC16F1717	NR	40	36	EMR	14 KB 8 Kw	RW	1K	HEF	1.8V-5.5V	32 MHz	16 MHz	-	28	-	28	-	2	-	2	1/1/0	2	2	-	0/1	1	4	4	1	-	1	-	-	POR/LPBOR	-	✓	\$1.36	PDIP (P), TQFP (PT), 5 x 5 UQFN (MV)
	PIC16F1519	R	40	36	EMR	28 KB 16 Kw	RW	1024	HEF	1.8V-5.5V	20 MHz	16 MHz	-	28	-	28	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	PBOR	SW	✓	\$1.37	PDIP (P), TQFP (PT), 5 x 5 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.

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

‡ eXtreme Low Power variants available.

Product		Released (R) Not Released (NR)		Pins		Core	Memory			Voltage Range	Operating Speed		LCD Segments	mTouch™ Channels		Analog Sensing & Measurement						Digital			Communication			Monitors		Special Features	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	Comparators	Charge Time Measurement Unit	Op Amp	DAC (5b/8b/9b)	PWM	CCP	ECCP	PSMC (16-bit PWM)	CWG/COG	NCO	CLC	8-bit Timer	16-bit Timer	AUSART	EUSART	I²C/N/SPI	Ethernet (MAC/PHY)	USB 2.0 Device	CAN	Resets	PLVD	SR-Latch
40/44-Pin (Cont.)	PIC16F724 ^{LP}	R	40	36	MR		7 KB 4 K ^w	RW	192	-	1.8V–5.5V	20 MHz	16 MHz	-	16	14	-	-	-	-	-	2	-	-	-	0/1	1	4	4	1	-	1	1	-	-	PDIP (P), TQFP (PT), 8×8 QFN (ML), 5×5 UQFN (MV)	Temp*		
	PIC16F1719 ^{XLP}	NR	40	36	EMR		28 KB 16 K ^w	RW	2K	HEF	1.8V–5.5V	32 MHz	16 MHz	-	28	-	28	-	2	-	2	1/10	2	2	-	-	0/1	1	4	4	1	-	1	1	-	-	PDIP (P), TQFP (PT), 5×5 UQFN (MV)		
	PIC16F1934 ^{XLP}	R	40	36	EMR		7 KB 4 K ^w	RW	256	256	1.8V–5.5V	32 MHz	32 MHz, 31 kHz	96	16	-	14	-	2	-	-	-	2	3	-	-	-	-	4	1	-	1	1	-	-	PDIP (P), TQFP (PT), 8×8 QFN (ML), 5×5 UQFN (MV)	Temp*		
	PIC18F43K20 ^{ULP}	R	40	36	PIC18		8 KB 4 K ^w	RW	512	256	1.8V–3.6V	64 MHz	16 MHz, 31 kHz	-	14	-	14	-	2	-	-	-	1	1	-	-	-	-	1	3	-	1	1	-	-	PDIP (P), TQFP (PT), 8×8 QFN (ML), 5×5 UQFN (MV)			
	PIC16F727 ^{ULP}	R	40	36	MR		14 KB 8 K ^w	RW	368	-	1.8V–5.5V	20 MHz	16 MHz	-	16	14	-	-	-	-	-	2	-	-	-	-	-	2	1	1	-	1	-	-	PDIP (P), TQFP (PT), 8×8 QFN (ML), 5×5 UQFN (MV)	Temp*			
	PIC16F1784 ^{ULP}	R	40	36	EMR		7 KB 4 K ^w	RW	512	256	1.8V–5.5V	32 MHz	32 MHz	-	14	-	-	14	4	-	3	0/1/0	-	3	-	3	-	-	-	2	1	-	1	1	-	-	PDIP (P), TQFP (PT), 8×8 QFN (ML), 5×5 UQFN (MV)		
	PIC16F1937 ^{XLP}	R	40	36	EMR		14 KB 8 K ^w	RW	512	256	1.8V–5.5V	32 MHz	32 MHz, 31 kHz	96	16	-	14	-	2	-	-	-	2	3	-	-	-	-	4	1	-	1	1	-	-	PDIP (P), TQFP (PT), 5×5 UQFN (MV)	Temp*		
	PIC18F44K20 ^{ULP}	R	40	36	PIC18		16 KB 8 K ^w	RW	768	256	1.8V–3.6V	64 MHz	16 MHz, 31 kHz	-	14	-	14	-	2	-	-	-	1	1	-	-	-	-	1	3	-	1	1	-	-	PDIP (P), TQFP (PT), 8×8 QFN (ML), 5×5 UQFN (MV)			
	PIC16F1787 ^{ULP}	R	40	36	EMR		14 KB 8 K ^w	RW	1024	256	1.8V–5.5V	32 MHz	32 MHz	-	14	-	-	14	4	-	3	0/1/0	-	3	-	3	-	-	-	2	1	-	1	1	-	-	PDIP (P), TQFP (PT), 8×8 QFN (ML), 5×5 UQFN (MV)		
	PIC16F1939 ^{XLP}	R	40	36	EMR		28 KB 16 K ^w	RW	1024	256	1.8V–5.5V	32 MHz	32 MHz, 31 kHz	96	16	-	14	-	2	-	-	-	2	3	-	-	-	-	4	1	-	1	1	-	-	PDIP (P), TQFP (PT), 8×8 QFN (ML), 5×5 UQFN (MV)	Temp*		
	PIC18F45K20 ^{ULP}	R	40	36	PIC18		32 KB 16 K ^w	RW	1536	256	1.8V–3.6V	64 MHz	16 MHz, 31 kHz	-	14	-	14	-	2	-	-	-	1	1	-	-	-	-	1	3	-	1	1	-	-	PDIP (P), TQFP (PT), 8×8 QFN (ML), 5×5 UQFN (MV)			
	PIC16F884	R	40	36	MR		7 KB 4 K ^w	RW	256	256	2V–5.5V	20 MHz	8 MHz, 31 kHz	-	14	-	14	-	2	-	-	-	1	1	-	-	-	-	2	1	-	1	1	-	-	PDIP (P), TQFP (PT), 8×8 QFN (ML), 5×5 UQFN (MV)			
	PIC18F44J10	R	40	32	PIC18		16 KB 8 K ^w	RW	1024	-	2V–3.6V	40 MHz	31 kHz	-	13	-	13	-	2	-	-	-	1	1	-	-	-	-	1	2	-	1	2	-	-	PDIP (P), TQFP (PT), QFN (ML)			
	PIC18F43K22 ^{ULP}	R	40	36	PIC18		8 KB 4 K ^w	RW	512	256	1.8V–5.5V	64 MHz	16 MHz, 31 kHz	-	28	-	28	-	2	✓	-	-	1	1	-	-	-	-	1	3	-	2	2	-	-	PDIP (P), TQFP (PT), 8×8 QFN (ML), 5×5 UQFN (MV)			
	PIC18F1789 ^{XLP}	R	40	36	EMR		28 KB 16 K ^w	RW	2K	256	1.8V–5.5V	32 MHz	32 MHz	-	14	-	-	14	4	-	3	3/1/0	-	3	-	4	-	-	-	2	1	-	1	1	-	-	SPDIP (SP), SOIC (SO), SSOP (SS), 6×6 QFN (ML), 4×4 UQFN (MV)		
	PIC18F44K22 ^{ULP}	R	40	36	PIC18		16 KB 8 K ^w	RW	768	256	1.8V–5.5V	64 MHz	16 MHz, 31 kHz	-	28	-	28	-	2	✓	-	-	1	1	-	-	-	-	1	3	-	2	2	-	-	PDIP (P), TQFP (PT), 8×8 QFN (ML), 5×5 UQFN (MV)			
	PIC16F887	R	40	36	MR		14 KB 8 K ^w	RW	368	256	2V–5.5V	20 MHz	8 MHz, 31 kHz	-	14	-	14	-	2	-	-	-	1	1	-	-	-	-	2	1	-	1	1	-	-	PDIP (P), TQFP (PT), 8×8 QFN (ML), 5×5 UQFN (MV)			
	PIC18F45J10	R	40	32	PIC18		32 KB 16 K ^w	RW	1024	-	2V–3.6V	40 MHz	31 kHz	-	13	-	13	-	2	-	-	-	1	1	-	-	-	-	1	2	-	1	2	-	-	PDIP (P), TQFP (PT), QFN (ML)			
	PIC18F45J10	R	40	32	PIC18		32 KB 16 K ^w	RW	1024	-	2V–3.6V	40 MHz	31 kHz	-	13	-	13	-	2	-	-	-	1	1	-	-	-	-	1	2	-	1	2	-	-	PDIP (P), TQFP (PT), QFN (ML)			
	PIC18F46K20 ^{ULP}	R	40	36	PIC18		64 KB 32 K ^w	RW	3936	1024	1.8V–3.6V	64 MHz	16 MHz, 31 kHz	-	14	-	14	-	2	-	-	-	1	1	-	-	-	-	1	3	-	1	1	-	-	PDIP (P), TQFP (PT), 8×8 QFN (ML), 5×5 UQFN (MV)			
	PIC18F45K22 ^{ULP}	R	40	36	PIC18		32 KB 16 K ^w	RW	1536	256	1.8V–5.5V	64 MHz	16 MHz, 31 kHz	-	28	-	28	-	2	✓	-	-	2	2	-	-	-	-	3	4	-	2	2	-	-	PDIP (P), TQFP (PT), 8×8 QFN (ML), 5×5 UQFN (MV)			
	PIC18F44J11 ^{ULP}	R	40	34	PIC18		16 KB 8 K ^w	RW	3800	-	2V–3.6V	48 MHz	48 MHz	-	13	-	13	-	2	✓	-	-	2	2	-	-	-	-	2	3	-	2	2	-	-	PDIP (P), TQFP (PT), QFN (ML)	Peripheral Pin Select, Deep Sleep Mode		
	PIC18F45K50 ^{ULP}	R	40	36	PIC18		32 KB 16 K ^w	RW	2K	256	1.8V–5.5V	48 MHz	48 MHz	-	25	-	25	-	2	✓	-	-	1	1	-	-	-	-	2	2	-	2	2	-	-	PDIP (P), TQFP (PT), 5×5	Crystal Free USB		
	PIC18F45J11 ^{ULP}	R	40	34	PIC18		32 KB 16 K ^w	RW	3800	-	2V–3.6V	48 MHz	8 MHz, 31 kHz	-	13	-	13	-	2	✓	-	-	2	2	-	-	-	-	2	3	-	2	2	-	-	PDIP (P), TQFP (PT), QFN (ML)	Peripheral Pin Select, Deep Sleep Mode		
	PIC18F44J50 ^{ULP}	R	40	34	PIC18		16 KB 8 K ^w	RW	3800	-	2V–3.6V	48 MHz	8 MHz, 31 kHz	-	13	-	13	-	2	✓	-	-	2	2	-	-	-	-	2	3	-	2	2	-	-	PDIP (P), TQFP (PT), QFN (ML)	Peripheral Pin Select, Deep Sleep Mode		
	PIC18F45K80 ^{ULP}	R	40	35	PIC18		32 KB 16 K ^w	RW	3648	1024	1.8V–5.5V	64 MHz	8 MHz, 31 kHz	-	11	-	11	2	✓	-	-	4	1	-	-	-	-	2	3	-	2	1	-	-	PDIP (P), TQFP (PT), QFN (ML)	Deep Sleep Mode			
	PIC18F46K22 ^{ULP}	R	40	36	PIC18		64 KB 32 K ^w	RW	3896	1024	1.8V–5.5V	64 MHz	16 MHz, 31 kHz	-	28	-	28	-	2	✓	-	-	2	2	-	-	-	-	3	4	-	2	2	-	-	PDIP (P), TQFP (PT), 8×8 QFN (ML), 5×5 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.

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

□ eXtreme Low Power variants available.

8-BIT PIC® MICROCONTROLLERS

Product	Released (R) Not Released (NR)	Pins			Memory			Operating Speed			LCD Segments		Analog Sensing & Measurement			Digital			Communication			Monitors		Special Features																
		Total	I/O	Core	Program	Self-Read/Write	Data RAM (B)	Data EE (B)	Voltage Range	Maximum Speed	Internal Oscillator	8-bit ADC	10-bit ADC	12-bit ADC	Comparators	Charge Time Measurement Unit	Op Amp	DAC (5b/8b/9b)	PWM	CCP	ECCP	PSMC (16-bit PWM)	CWG/COG	NCO	CLC	8-bit Timer	16-bit Timer	AUSART	I²C™/SPI	Ethernet (MAC/PHY)	USB 2.0 Device	CAN	Resets	PLVD	SR-Latch	Timer 1 Gate	5 kV Pricing†	Packages (Designator)		
40/44-Pin (Cont.)	PIC18F45J50	R	40	34	PIC18	32 KB 16 Kw	RW	3800	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	-	13	-	13	-	2	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	\$2.30	TQFP (PT), QFN (ML)	Peripheral Pin Select, Deep Sleep Mode					
	PIC18F46J11	R	40	34	PIC18	64 KB 32 Kw	RW	3800	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	-	13	-	13	-	2	✓	-	-	-	-	-	-	-	-	-	-	-	-	\$2.37	PDIP (P), TQFP (PT), QFN (ML)	Peripheral Pin Select, Deep Sleep Mode						
	PIC18F46K80	R	44	35	PIC18	64 KB 32 Kw	RW	3648	1024	1.8V-5.5V	64 MHz	8 MHz, 31 kHz	-	11	-	11	2	✓	-	-	-	4	1	-	-	-	2	3	-	2	1	-	✓	PBOR	✓	-	\$2.45	PDIP (P), TQFP (PT), QFN (ML)	Deep Sleep Mode	
	PIC18F46J13	R	44	34	PIC18	64 KB 32 Kw	RW	3808	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	-	13	-	13	3	✓	-	-	-	7	3	-	-	-	4	4	-	2	2	-	-	BOR	✓	-	\$2.52	TQFP (PT), QFN (ML)	SPI w/DMA	
	PIC18F46J53	R	44	33	PIC18	64 KB 32 Kw	RW	3808	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	-	13	-	13	3	✓	-	-	-	7	3	-	-	-	4	4	-	2	2	-	✓	BOR	✓	-	\$2.73	TQFP (PT), QFN (ML)	Integrated LCD Driver, SPI w/DMA	
	PIC18F47J13	R	44	34	PIC18	128 KB 64 Kw	RW	3808	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	-	13	-	13	3	✓	-	-	-	7	3	-	-	-	4	4	-	2	2	-	-	BOR	✓	-	\$2.76	TQFP (PT), QFN (ML)	SPI w/DMA	
	PIC18F47J53	R	44	33	PIC18	128 KB 64 Kw	RW	3808	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	-	13	-	13	3	✓	-	-	-	7	3	-	-	-	4	4	-	2	2	-	✓	BOR	✓	-	\$2.97	TQFP (PT), QFN (ML)	Integrated LCD Driver, SPI w/DMA	
64-Pin	PIC16F1526	R	64	54	EMR	14 KB 8 Kw	RW	768	HEF	1.8V-5.5V	20 MHz	16 MHz	-	30	-	30	-	-	-	-	-	10	-	-	-	-	6	3	-	2	2	-	-	PBOR	SW◊	-	✓	\$1.47	TQFP (PT), QFN (MR)	Temp*
	PIC16F1527	R	64	54	EMR	28 KB 16 Kw	RW	1536	HEF	1.8V-5.5V	20 MHz	16 MHz	-	30	-	30	-	-	-	-	-	10	-	-	-	-	6	3	-	2	2	-	-	PBOR	SW◊	-	✓	\$1.54	TQFP (PT), QFN (MR)	Temp*
	PIC16F1946	R	64	53	EMR	14 KB 8 Kw	RW	512	256	1.8V-5.5V	32 MHz	32 MHz, 31 kHz	184	17	-	17	-	3	-	-	-	2	3	-	-	-	4	1	-	2	2	-	-	BOR	SW◊	✓	✓	\$1.75	TQFP (PT), QFN (MR)	Temp*
	PIC16F1947	R	64	53	EMR	28 KB 16 Kw	RW	1024	256	1.8V-5.5V	32 MHz	32 MHz, 31 kHz	184	17	-	17	-	3	-	-	-	2	3	-	-	-	4	1	-	2	2	-	-	BOR	SW◊	✓	✓	\$1.82	TQFP (PT), QFN (MR)	Temp*
	PIC18F63J11	R	64	54	PIC18	8 KB 4 Kw	RW	1024	-	2V-3.6V	40 MHz	8 MHz, 31 kHz	-	12	-	12	-	2	-	-	-	2	-	-	-	-	1	3	1	1	1	-	-	PBOR	SW◊	-	\$2.20	TQFP (PT)		
	PIC18F65J10	R	64	50	PIC18	32 KB 16 Kw	RW	2048	-	2V-3.6V	40 MHz	31 kHz	-	11	-	11	-	2	-	-	-	2	3	-	-	-	2	3	-	2	2	-	-	BOR	✓	-	\$2.25	TQFP (PT)		
	PIC18F64J11	R	64	54	PIC18	16 KB 8 Kw	RW	1024	-	2V-3.6V	40 MHz	8 MHz, 31 kHz	-	12	-	12	-	2	-	-	-	2	-	-	-	-	1	3	1	1	1	-	-	BOR	SW◊	-	\$2.27	TQFP (PT)		
	PIC18F63J90	R	64	51	PIC18	8 KB 4 Kw	RW	1024	-	2V-3.6V	40 MHz	8 MHz, 31 kHz	132	12	-	12	-	2	-	-	-	2	-	-	-	-	1	3	1	1	1	-	-	BOR	✓	-	\$2.35	TQFP (PT)	Integrated LCD Driver	
	PIC18F65J11	R	64	54	PIC18	32 KB 16 Kw	RW	2048	-	2V-3.6V	40 MHz	8 MHz, 31 kHz	-	12	-	12	-	2	-	-	-	2	-	-	-	-	1	3	1	1	1	-	-	BOR	SW◊	-	\$2.37	TQFP (PT)		
	PIC18F65J94	R	64	51	PIC18	32 KB 16 Kw	RW	4096	-	2V-3.6V	64 MHz	64 MHz	224	24	-	16	16	3	✓	-	-	✓	7	3	-	-	-	4	4	-	4	2	-	✓	BOR	-	✓	\$2.38	QFN (MR), TQFP (PT)	USB & LCD
	PIC18F65K22	R	64	53	PIC18	32 KB 16 Kw	RW	2048	1024	1.8V-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	-	16	-	16	3	✓	-	-	-	5	3	-	-	-	4	4	-	2	2	-	-	BOR	✓	-	\$2.39	TQFP (PT), QFN (MR)		
	PIC18F64J90	R	64	51	PIC18	16 KB 8 Kw	RW	1024	-	2V-3.6V	40 MHz	8 MHz, 31 kHz	132	12	-	12	-	2	-	-	-	2	-	-	-	-	1	3	1	1	1	-	-	BOR	✓	-	\$2.41	TQFP (PT)	Integrated LCD Driver	
	PIC18F66J10	R	64	50	PIC18	64 KB 32 Kw	RW	2048	-	2V-3.6V	40 MHz	31 kHz	-	11	-	11	-	2	-	-	-	2	3	-	-	-	2	3	-	2	2	-	-	BOR	✓	-	\$2.49	TQFP (PT)		
	PIC18F65J90	R	64	50	PIC18	32 KB 16 Kw	RW	2048	-	2V-3.6V	40 MHz	8 MHz, 31 kHz	132	12	-	12	-	2	-	-	-	2	-	-	-	-	1	3	1	1	1	-	-	BOR	✓	-	\$2.52	TQFP (PT)	Integrated LCD Driver	
	PIC18F65K90	R	64	53	PIC18	32 KB 16 Kw	RW	2048	1024	1.8V-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	132	16	-	16	3	✓	-	-	-	5	3	-	-	-	4	4	-	2	2	-	-	BOR	✓	-	\$2.53	TQFP (PT), QFN (MR)	Integrated LCD Driver	
	PIC18F65J50	R	64	49	PIC18	32 KB 16 Kw	RW	3904	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	-	8	-	8	-	2	-	-	-	2	3	-	-	-	2	3	-	2	2	-	-	BOR	✓	-	\$2.63	TQFP (PT)		
	PIC18F66J11	R	64	50	PIC18	64 KB 32 Kw	RW	3904	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	-	11	-	11	-	2	-	-	-	2	3	-	-	-	2	3	-	2	2	-	-	BOR	✓	-	\$2.63	TQFP (PT)		
	PIC18F66J94	R	64	51	PIC18	64 KB 32 Kw	RW	4096	-	2V-3.6V	64 MHz	64 MHz	224	24	-	16	16	3	✓	-	-	✓	7	3	-	-	-	4	4	-	4	2	-	✓	BOR	-	✓	\$2.69	QFN (MR), TQFP (PT)	USB & LCD

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.

8-BIT PIC® MICROCONTROLLERS																																										
Product		Released (R) Not Released (NR)		Memory			Operating Speed			LCD Segments		Analog Sensing & Measurement						Digital			Communication			Monitors		Special Features																
				Total	I/O	Core	Program	Self-Read/Write	Data RAM (B)			Voltage Range	Maximum Speed	Internal Oscillator	mTouch™ Channels	8-bit ADC	10-bit ADC	12-bit ADC	Comparators	Charge Time Measurement Unit	Op Amp	DAC (5b/8b/9b)	PWM	CCP	ECCP	PSMC (16-bit PWM)	CWLG/COG	NCO	CLC	8-bit Timer	16-bit Timer	USART	I²C™/SPI	Ethernet (MAC/PHY)	USB 2.0 Device	CAN	Resets	PLVD	SR-Latch	Timer 1 Gate	5 kV Pricing†	Packages (Designator)
64-Pin (Cont.)	PIC18F66J93	R	64	51	PIC18	64 KB 32 Kw	RW	3900	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	132	12	-	-	12	2	✓	-	-	-	-	-	4	1	-	-	-	2	3	-	2	1	-	✓	PBOR	✓	-	\$2.70	TQFP (PT)	Integrated LCD Driver, RTCC
	PIC18F65K80	R	64	54	PIC18	32 KB 16 Kw	RW	3648	1024	1.8V-5.5V	64 MHz	8 MHz, 31 kHz	-	11	-	-	11	2	✓	-	-	-	-	-	7	3	-	-	-	6	5	-	2	2	-	-	BOR	✓	-	\$2.70	TQFP (PT), QFN (MR)	Deep Sleep Mode
	PIC18F66K22	R	64	53	PIC18	64 KB 32 Kw	RW	4096	1024	1.8V-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	-	16	-	-	16	3	✓	-	-	-	-	-	7	3	-	-	-	6	5	-	2	2	-	-	BOR	✓	-	\$2.70	TQFP (PT), QFN (MR)	
	PIC18F67J10	R	64	50	PIC18	128 KB 64 Kw	RW	3936	-	2V-3.6V	40 MHz	31 kHz	-	11	-	11	-	2	-	-	-	-	-	-	2	3	-	-	-	2	3	-	2	2	-	-	BOR	✓	-	\$2.77	TQFP (PT)	
	PIC18F66K90	R	64	53	PIC18	64 KB 32 Kw	RW	4096	1024	1.8V-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	132	16	-	-	16	3	✓	-	-	-	-	-	7	3	-	-	-	6	5	-	2	2	-	-	BOR	✓	-	\$2.84	TQFP (PT), QFN (MR)	Integrated LCD Driver
	PIC18F66J50	R	64	49	PIC18	64 KB 32 Kw	RW	3904	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	-	8	-	8	-	2	-	-	-	-	-	-	2	3	-	-	-	2	3	-	2	2	-	-	BOR	✓	-	\$2.90	TQFP (PT)	
	PIC18F67J11	R	64	50	PIC18	128 KB 64 Kw	RW	3904	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	-	11	-	11	-	2	-	-	-	-	-	-	2	3	-	-	-	2	3	-	2	2	-	-	BOR	✓	-	\$2.93	TQFP (PT)	
	PIC18F67J94	R	64	51	PIC18	128 KB 64 Kw	RW	4096	-	2V-3.6V	64 MHz	64 MHz	224	24	-	16	16	3	✓	-	-	✓	7	3	-	-	-	4	4	-	4	2	-	✓	BOR	-	-	\$2.93	QFN (MR), TQFP (PT)	USB & LCD		
	PIC18F67K22	R	64	53	PIC18	128 KB 64 Kw	RW	4096	1024	1.8V-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	-	16	-	-	16	3	✓	-	-	-	-	-	7	3	-	-	-	6	5	-	2	2	-	-	BOR	✓	-	\$2.94	TQFP (PT), QFN (MR)	
	PIC18F66K80	R	64	54	PIC18	64 KB 32 Kw	RW	3648	1024	1.8V-5.5V	64 MHz	8 MHz, 31 kHz	-	11	-	-	11	2	✓	-	-	-	-	-	4	1	-	-	-	2	3	-	2	1	-	✓	PBOR	✓	-	\$2.98	TQFP (PT), QFN (MR)	Deep Sleep Mode
	PIC18F67J93	R	64	51	PIC18	128 KB 64 Kw	RW	3900	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	132	12	-	-	12	2	✓	-	-	-	-	-	2	3	-	-	-	1	3	1	1	1	-	-	BOR	✓	-	\$3.00	TQFP (PT)	Integrated LCD Driver, RTCC
	PIC18F67K90	R	64	53	PIC18	128 KB 64 Kw	RW	4096	1024	1.8V-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	132	16	-	-	16	3	✓	-	-	-	-	-	7	3	-	-	-	6	5	-	2	2	-	-	BOR	✓	-	\$3.08	TQFP (PT), QFN (MR)	Integrated LCD Driver
	PIC18F67J50	R	64	49	PIC18	128 KB 64 Kw	RW	3904	-	2V-3.6V	48 MHz	8 MHz, 31 kHz	-	8	-	8	-	2	-	-	-	-	-	-	2	3	-	-	-	2	3	-	2	2	-	✓	BOR	✓	-	\$3.19	TQFP (PT)	
80-Pin	PIC18F83J11	R	80	70	PIC18	8 KB 4 Kw	RW	1024	-	2V-3.6V	40 MHz	8 MHz, 31 kHz	-	12	-	12	-	2	-	-	-	-	-	-	2	-	-	-	-	1	3	1	1	1	-	-	BOR	SW0	-	\$2.46	TQFP (PT)	
	PIC18F85J10	R	80	66	PIC18	32 KB 16 Kw	RW	2048	-	2V-3.6V	40 MHz	31 kHz	-	15	-	15	-	2	-	-	-	-	-	-	2	3	-	-	-	2	3	-	2	2	-	-	BOR	✓	-	\$2.49	TQFP (PT)	
	PIC18F84J11	R	80	70	PIC18	16 KB 8 Kw	RW	1024	-	2V-3.6V	40 MHz	8 MHz, 31 kHz	-	12	-	12	-	2	-	-	-	-	-	-	2	-	-	-	-	1	3	1	1	1	-	-	BOR	SW0	-	\$2.52	TQFP (PT)	
	PIC18F83J90	R	80	66	PIC18	8 KB 4 Kw	RW	1024	-	2V-3.6V	40 MHz	8 MHz, 31 kHz	192	12	-	12	-	2	-	-	-	-	-	-	2	-	-	-	-	1	3	1	1	1	-	-	BOR	✓	-	\$2.60	TQFP (PT)	Integrated LCD Driver
	PIC18F85J11	R	80	70	PIC18	32 KB 16 Kw	RW	2048	-	2V-3.6V	40 MHz	8 MHz, 31 kHz	-	12	-	12	-	2	-	-	-	-	-	-	2	-	-	-	-	1	3	1	1	1	-	-	BOR	SW0	-	\$2.63	TQFP (PT)	
	PIC18F85J94	R	80	67	PIC18	32 KB 16 Kw	RW	4096	-	2V-3.6V	64 MHz	64 MHz	352	24	-	24	24	3	✓	-	-	✓	7	3	-	-	-	4	4	-	4	2	-	✓	-	-	✓	\$2.65	TQFP (PT)	USB & LCD		
	PIC18F85K22	R	80	69	PIC18	32 KB 16 Kw	RW	2048	1024	1.8V-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	-	24	-	24	3	✓	-	-	-	-	-	-	5	3	-	-	-	4	4	-	2	2	-	-	BOR	✓	-	\$2.66	TQFP (PT)	
	PIC18F84J90	R	80	66	PIC18	16 KB 8 Kw	RW	1024	-	2V-3.6V	40 MHz	8 MHz, 31 kHz	192	12	-	12	-	2	-	-	-	-	-	-	2	-	-	-	-	1	3	1	1	1	-	-	BOR	✓	-	\$2.67	TQFP (PT)	Integrated LCD Driver
	PIC18F86J10	R	80	66	PIC18	64 KB 32 Kw	RW	2048	-	2V-3.6V	40 MHz	31 kHz	-	15	-	15	-	2	-	-	-	-	-	-	2	3	-	-	-	2	3	-	2	2	-	-	BOR	✓	-	\$2.74	TQFP (PT)	
	PIC18F85J90	R	80	66	PIC18	32 KB 16 Kw	RW	2048	-	2V-3.6V	40 MHz	8 MHz, 31 kHz	192	12	-	12	-	2	-	-	-	-	-	-	2	-	-	-	-	1	3	1	1	1	-	-	BOR	✓	-	\$2.77	TQFP (PT), LQFP (PL)	Integrated LCD Driver

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.

8-BIT PIC® MICROCONTROLLERS

Product	Released (R) Not Released (NR)	Pins		Memory			Voltage Range	Maximum Speed	Operating Speed		LCD Segments	mTouch™ channels	Analog Sensing & Measurement						Digital			Communication			Monitors		Software PLVD implemented via ADC.	5 Ku Pricing†	Packages (Designator)	Special Features													
		Total	I/O	Core	Program	Self-Read/Write			Comparators	Charge Time Measurement Unit	Op Amp	DAC (5b/8b)	PWM	CCP	ECCP	PSMC (16-bit PWM)	CWG/CG	NCO	CLC	8-bit Timer	16-bit Timer	AUSART	EUSART	I²C™/SPI	Ethernet (MAC/PHY)	USB 2.0 Device	CAN	Resets	PLVD	SR-Latch	Timer 1 Gate												
80-Pin (Cont.)	PIC18F85K90	R	80	69	PIC18	32 KB 16 Kw	RW	2048	1024	1.8V–5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	192	24	–	–	24	3	✓	–	–	–	5	3	–	2	3	–	–	2	3	–	2	2	–	✓	–	–	\$2.80 TQFP (PT)	Integrated LCD Driver			
	PIC18F85J50	R	80	65	PIC18	32 KB 16 Kw	RW	3904	–	2V–3.6V	48 MHz	8 MHz, 31 kHz	–	12	–	12	–	2	–	–	–	–	2	3	–	–	–	–	–	2	3	–	2	2	–	–	\$2.90 TQFP (PT)						
	PIC18F86J11	R	80	66	PIC18	64 KB 32 Kw	RW	3904	–	2V–3.6V	48 MHz	8 MHz, 31 kHz	–	15	–	15	–	2	–	–	–	–	2	3	–	–	–	–	–	2	3	–	2	2	–	–	\$2.90 TQFP (PT)						
	PIC18F86J94	R	80	67	PIC18	64 KB 32 Kw	RW	4096	–	2V–3.6V	64 MHz	64 MHz	352	24	–	24	24	3	✓	–	–	✓	7	3	–	–	–	–	–	4	4	–	4	2	–	✓	–	–	\$2.95 TQFP (PT)	USB & LCD			
	PIC18F86J93	R	80	67	PIC18	64 KB 32 Kw	RW	3900	–	2V–3.6V	48 MHz	8 MHz, 31 kHz	192	12	–	–	12	2	✓	–	–	–	2	3	–	–	–	–	–	1	3	1	1	1	–	–	–	–	\$2.97 TQFP (PT)	Integrated LCD Driver, RTCC			
	PIC18F86K22	R	80	69	PIC18	64 KB 32 Kw	RW	4096	1024	1.8V–5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	24	–	–	24	3	✓	–	–	–	7	3	–	–	–	–	–	6	5	–	2	2	–	–	–	–	\$2.97 TQFP (PT)					
	PIC18F87J10	R	80	66	PIC18	128 KB 64 Kw	RW	3936	–	2V–3.6V	40 MHz	31 kHz	–	15	–	15	–	2	–	–	–	–	2	3	–	–	–	–	–	2	3	–	2	2	–	–	\$3.02 TQFP (PT), LQFP (PL)						
	PIC18F86K90	R	80	69	PIC18	64 KB 32 Kw	RW	4096	1024	1.8V–5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	192	24	–	–	24	3	✓	–	–	–	7	3	–	–	–	–	–	6	5	–	2	2	–	–	–	–	\$3.11 TQFP (PT)	Integrated LCD Driver			
	PIC18F86J50	R	80	65	PIC18	64 KB 32 Kw	RW	3904	–	2V–3.6V	48 MHz	8 MHz, 31 kHz	–	12	–	12	–	2	–	–	–	–	2	3	–	–	–	–	–	2	3	–	2	2	–	–	–	–	\$3.15 TQFP (PT)				
	PIC18F87J11	R	80	66	PIC18	128 KB 64 Kw	RW	3904	–	2V–3.6V	48 MHz	8 MHz, 31 kHz	–	15	–	15	–	2	–	–	–	–	2	3	–	–	–	–	–	2	3	–	2	2	–	–	–	–	\$3.19 TQFP (PT)				
	PIC18F87J94	R	80	67	PIC18	128 KB 64 Kw	RW	4096	–	2V–3.6V	64 MHz	64 MHz	352	24	–	24	24	3	✓	–	–	✓	7	3	–	–	–	–	–	4	4	–	4	2	–	✓	–	–	\$3.19 TQFP (PT)	USB & LCD			
	PIC18F87K22	R	80	69	PIC18	128 KB 64 Kw	RW	4096	1024	1.8V–5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	24	–	–	24	3	✓	–	–	–	7	3	–	–	–	–	–	6	5	–	2	2	–	–	–	–	\$3.21 TQFP (PT)					
	PIC18F87J93	R	80	67	PIC18	128 KB 64 Kw	RW	3900	–	2V–3.6V	48 MHz	8 MHz, 31 kHz	192	12	–	–	12	2	✓	–	–	–	2	3	–	–	–	–	–	1	3	1	1	1	–	–	–	–	\$3.26 TQFP (PT)	Integrated LCD Driver, RTCC			
	PIC18F87K90	R	80	69	PIC18	128 KB 64 Kw	RW	4096	1024	1.8V–5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	192	24	–	–	24	3	✓	–	–	–	7	3	–	–	–	–	–	6	5	–	2	2	–	–	–	–	\$3.35 TQFP (PT)	Integrated LCD Driver			
	PIC18F87J50	R	80	65	PIC18	128 KB 64 Kw	RW	3904	–	2V–3.6V	48 MHz	8 MHz, 31 kHz	–	12	–	12	–	2	–	–	–	–	2	3	–	–	–	–	–	2	3	–	2	2	–	–	–	–	\$3.44 TQFP (PT)				
	PIC18F86J60	R	80	55	PIC18	64 KB 32 Kw	RW	3808	–	2V–3.6V	42 MHz	31 kHz	–	15	–	15	–	2	–	–	–	–	2	3	–	–	–	–	–	2	3	–	2	1	1	–	–	–	–	\$3.63 TQFP (PT)	Integrated MAC, 10Base-T PHY		
	PIC18F87J60	R	80	55	PIC18	128 KB 64 Kw	RW	3808	–	2V–3.6V	42 MHz	32 kHz, 31 kHz	–	15	–	15	–	2	–	–	–	–	2	3	–	–	–	–	–	2	3	–	2	1	1	–	–	–	–	\$3.92 TQFP (PT)	Integrated MAC, 10Base-T PHY		
	PIC18F86J72	R	80	51	PIC18	64 KB 32 Kw	RW	3923	–	2V–3.6V	48 MHz	8 MHz, 31 kHz	132	12	–	–	12	2	✓	–	–	–	2	–	–	–	–	–	–	1	3	1	1	1	–	–	–	–	\$4.12 TQFP (PT)	2 x 24-bit ADC, RTCC			
	PIC18F87J72	R	80	51	PIC18	128 KB 64 Kw	RW	3923	–	2V–3.6V	48 MHz	8 MHz, 31 kHz	132	12	–	–	12	2	✓	–	–	–	2	–	–	–	–	–	–	1	3	1	1	1	–	–	–	–	\$4.35 TQFP (PT)	2 x 24-bit ADC, RTCC			
100-Pin	PIC18F95J94	R	100	85	PIC18	32 KB 16 Kw	RW	4096	–	2V–3.6V	64 MHz	64 MHz	480	24	–	24	24	3	✓	–	–	✓	7	3	–	–	–	–	–	4	4	–	4	2	–	✓	–	–	\$2.83 TQFP (PT/PF)	USB & LCD			
	PIC18F96J94	R	100	85	PIC18	64 KB 32 Kw	RW	4096	–	2V–3.6V	64 MHz	64 MHz	480	24	–	24	24	3	✓	–	–	✓	7	3	–	–	–	–	–	4	4	–	4	2	–	✓	–	–	\$3.14 TQFP (PT/PF)	USB & LCD			
	PIC18F97J94	R	100	85	PIC18	128 KB 64 Kw	RW	4096	–	2V–3.6V	64 MHz	64 MHz	480	24	–	24	24	3	✓	–	–	✓	7	3	–	–	–	–	–	4	4	–	4	2	–	✓	–	–	\$3.37 TQFP (PT/PF)	USB & LCD			
	PIC18F96J60	R	100	70	PIC18	64 KB 32 Kw	RW	3808	–	2V–3.6V	42 MHz	31 kHz	–	16	–	16	–	2	–	–	–	–	2	3	–	–	–	–	–	2	3	–	2	2	1	–	–	BOR	✓	–	–	\$3.84 TQFP (PT)	Integrated MAC, 10Base-T PHY
	PIC18F97J60	R	64–100	70	PIC18	128 KB 64 Kw	RW	3808	–	2V–3.6V	42 MHz	31 kHz	–	16	–	16	–	2	–	–	–	–	2	3	–	–	–	–	–	2	3	–	2	2	1	–	–	BOR	✓	–	–	\$4.13 TQFP (PT), LQFP (PL)	Integrated MAC, 10Base-T PHY

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.

16-BIT PIC® MICROCONTROLLERS (PIC24F)																													
Product		Released (R) Not Released (NR)		Memory		Operating Speed		Analog Sensing & Measurement				LCD Segments		Communication			Monitors		System Mgmt. Features	Packages (Designator)									
		I/O Pins	Core	Program (KB)	Data RAM (B)	EEPROM	DMA #Ch	Voltage Range	Maximum MIPS	Internal Oscillator	Charge Time Measurement Unit	10-bit ADC	10/12-bit ADC 1100/500uASPS	16-bit ADC (diff ch)	Comparators	Graphics Controller	Output Compare/PWM	Input Capture	16-bit Timer ²	USB 2.0 Peripheral, Host, OTC	Hardware Crypto	PMP	RTCC/CRC	PPS	5 Ku Pricing [†]				
14-Pin	PIC24F04KL100	R	12	PIC24	4	512	AN1095 ⁽¹⁾	-	1.8V-3.6V	16	8 MHz, 32 kHz	-	-	-	-	1	-	2	2	1 UART, 1 SPI/I ^C ™ (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	✓	7	-	-	2	-	1	1	3	1 UART, 1 SPI/I ^C (MSSP)	-	-	-	-	\$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	-	7	-	-	1	-	-	2	2	1 UART, 1 SPI/I ^C (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, 32kHz	✓	-	16	-	1	-	-	5	5	11	1 UART, 1 SPI/I ^C (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/I ^C (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	✓	9	-	-	2	-	-	1	1	3	1 UART, 1 SPI/I ^C (MSSP)	-	-	-	-	\$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	-	12	-	-	1	-	-	2	2	2	1 UART, 1 SPI/I ^C (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/I ^C (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	-	12	-	-	2	-	-	6	3	2	2 UART, 2 SPI/I ^C (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	-	12	-	-	2	-	-	6	3	2	2 UART, 2 SPI/I ^C (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	✓	9	-	-	2	-	-	1	1	3	2 UART, 1 SPI, 1 I ^C	-	-	-	✓	\$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	✓	9	-	-	2	-	-	1	1	3	2 UART, 1 SPI, 1 I ^C	-	-	-	✓	\$1.51	BOR, POR, WDT, Deep Sleep, XLP	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	✓	6	-	-	3	-	-	8	3	5	1 UART, 1 SPI, 1 I ^C	-	-	-	✓	\$1.68	BOR, POR, WDT	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	✓	4	-	-	3	-	-	8	3	3	1 UART, 1 SPI, 1 I ^C	-	-	-	✓	\$1.73	BOR, POR, WDT	PDIP (P), SOIC (SO), SSOP (SS), QFN (MQL)
	PIC24F16KA301	R	18	PIC24	16	2048	512	-	1.8V-5.5V	16	8 MHz, 32 kHz	✓	-	9	-	3	-	-	3	3	5	2 UART, 2 SPI, 2 I ^C	-	-	-	✓	\$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	✓	-	9	-	3	-	-	3	3	5	2 UART, 2 SPI, 2 I ^C	-	-	-	✓	\$2.00	PWRT, HLVD, POR, OST, WDT	SPDIP (SP), SSOP (SS), SOIC (SO)
28-Pin	PIC24F08KL302	R	24	PIC24	8	1024	256	-	1.8V-3.6V	16	8 MHz, 32 kHz	-	-	-	-	2	-	-	6	3	2	2 UART, 2 SPI/I ^C (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	-	12	-	-	2	-	-	6	3	2	2 UART, 2 SPI/I ^C (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	-	12	-	-	2	-	-	6	3	2	2 UART, 2 SPI/I ^C (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	✓	9	-	-	2	-	-	1	1	3	2 UART, 1 SPI, 1 I ^C	-	-	-	✓	\$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	✓	9	-	-	2	-	-	1	1	3	2 UART, 1 SPI, 1 I ^C	-	-	-	✓	\$1.58	BOR, POR, WDT, Deep Sleep, XLP	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)
	PIC24FJ16MC102	R	21	PIC24	16	1024	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	6	-	-	3	-	-	8	3	3	1 UART, 1 SPI, 1 I ^C	-	-	-	✓	\$1.68	BOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML), TLA (TL)
	PIC24FJ16MC101	R	15	PIC24	16	1024	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	4	-	-	3	-	-	8	3	3	1 UART, 1 SPI, 1 I ^C	-	-	-	✓	\$1.73	BOR, POR, WDT	PDIP (P), SOIC (SO), SSOP (SS), QFN (MQL)
	PIC32FJ32MC102	R	21	PIC24	32	2048	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	8	-	-	3	-	-	8	3	5	1 UART, 1 SPI, 1 I ^C	-	-	-	✓	\$1.73	BOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MQL), VTLA (TL)
	PIC32FJ32MC102	R	21	PIC24	32	2048	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	8	-	-	3	-	-	8	3	5	1 UART, 1 SPI, 1 I ^C ™	-	-	-	✓	\$1.73	BOR, POR, WDT	PDIP (P), SOIC (SO), SSOP (SS), QFN (MQL), VTLA (TL)
	PIC24F16GA002	R	21	PIC24	16	4096	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	-	10	-	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I ^C	-	-	✓	✓	\$1.74	BOR, LVD, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)
	PIC24F08KM102	R	24	PIC24	8	1024	512	-	1.8V-5.5V	16	8 MHz, 32 kHz	✓	-	19	-	1	-	-	5	5	11	1 UART, 1 SPI/I ^C (MSSP)	-	-	-	✓	\$1.75	BOR, HLVD, POR, WDT, OST, XLP	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MQL)
	PIC24F16KM102	R	24	PIC24	16	1024	512	-	1.8V-5.5V	16	8 MHz, 32 kHz	✓	-	19	-	1	-	-	5	5	11	1 UART, 1 SPI/I ^C (MSSP)	-	-	-	✓	\$1.82	BOR, HLVD, POR, WDT, OST, XLP	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MQL)
	PIC24F08KM202	R	24	PIC24	8	2048	512	-	1.8V-5.5V	16	8 MHz, 32 kHz	✓	-	19	-	3	-	-	5	5	11	2 UART, 2 SPI/I ^C (MSSP)	-	-	-	✓	\$1.82	BOR, HLVD, POR, WDT, OST, XLP	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MQL)

* 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.

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

‡ 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	Internal Oscillator	Operating Speed			Analog Sensing & Measurement			LCD Segments	Graphics Controller	Communication			Monitors	System Mgmt. Features	Packages (Designator)				
				Program (KB)	Data RAM (B)	EEPROM	DMA #Ch				Charge Time Measurement Unit	10-bit ADC	10/12-bit ADC 1100/500 KSPS	16-bit ADC (diff ch)	Comparators	USB 2.0 Peripheral, Host, OTC												
28-Pin (Cont.)	PIC24F16KM202	R	24	PIC24	16	2048	512	-	1.8V-5.5V	16	8 MHz, 32 kHz	✓	-	19	-	3	-	-	5	5	11	2 UART, 2 SPI/I²C (MSSP)	-	-	-	✓	-	\$1.89 BOR, HLVD, POR, WDT, OST, XLP SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MLQ)
	PIC24FJ32GA002	R	21	PIC24	32	8192	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	-	10	-	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I²C	-	-	-	✓	✓	\$2.06 BOR, LVD, POR, WDT SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)
	PIC24F16KA302	R	24	PIC24	16	2048	512	-	1.8V-5.5V	16	8 MHz, 32 kHz	✓	-	10	-	3	-	-	3	3	5	2 UART, 2 SPI, 2 I²C	-	-	-	✓	-	\$2.06 PWRT, 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	✓	-	10	-	3	-	-	3	3	5	2 UART, 2 SPI, 2 I²C	-	-	-	✓	-	\$2.20 PWRT, 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	✓	10	-	-	3	-	-	5	5	5	2 UART, 2 SPI, 2 I²C	-	-	-	✓	✓	\$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	✓	9	-	-	3	-	-	5	5	5	2 UART, 2 SPI, 2 I²C	✓	-	-	✓	✓	\$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	-	10	-	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I²C	-	-	-	✓	✓	\$2.48 BOR, LVD, POR, WDT SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)
	PIC24FJ164GA202	NR	21	PIC24	64	8	AN1095 ⁽¹⁾	6	2.0V-3.6V	16	8 MHz, 32 kHz	✓	-	10	-	3	-	-	6	6	5	4 UART, 3 SPI/2 I²C	-	✓	-	✓	✓	\$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	✓	10	-	-	3	-	-	5	5	5	2 UART, 2 SPI, 2 I²C	-	-	-	✓	✓	\$2.65 BOR, LVD, POR, WDT, Deep Sleep, XLP SPDIP (SP), SOIC (SO), QFN (ML)
	PIC24FJ128GA202	NR	21	PIC24	128	8	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	-	10	-	3	-	-	6	6	5	4 UART, 3 SPI/2 I²C	-	✓	-	✓	✓	\$2.76 BOR, HLVD, POR, WDT, OST, XLP SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	PIC24FJ164GB202	NR	20	PIC24	64	8	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	-	9	-	3	-	-	6	6	5	4 UART, 3 SPI/2 I²C	✓	✓	-	✓	✓	\$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	✓	9	-	-	3	-	-	5	5	5	2 UART, 2 SPI, 2 I²C	✓	-	-	✓	✓	\$2.86 BOR, LVD, POR, WDT, Deep Sleep, XLP SPDIP (SP), SOIC (SO), QFN (ML)
	PIC24FJ128GB202	NR	20	PIC24	128	8	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	-	9	-	3	-	-	6	6	5	4 UART, 3 SPI/2 I²C	✓	✓	-	✓	✓	\$2.97 BOR, HLVD, POR, WDT, OST, XLP SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
44-Pin	PIC24FJ16GA004	R	35	PIC24	16	4096	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	-	13	-	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I²C	-	-	-	✓	✓	\$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	✓	14	-	-	3	-	-	8	3	5	1 UART, 1 SPI, 1 I²C	-	-	-	✓	✓	\$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	✓	-	22	-	1	-	-	5	5	11	1 UART, 1 SPI/I²C (MSSP)	-	-	-	✓	-	\$2.06 BOR, HLVD, POR, WDT, OST, XLP TQFP, QFN, UQFN
	PIC24F08KM204	R	38	PIC24	8	2048	512	-	1.8V-5.5V	16	8 MHz, 32 kHz	✓	-	22	-	3	-	-	5	5	11	2 UART, 2 SPI/I²C (MSSP)	-	-	-	✓	-	\$2.06 BOR, HLVD, POR, WDT, OST, XLP TQFP, QFN, UQFN
	PIC24F16KM204	R	38	PIC24	16	2048	512	-	1.8V-5.5V	16	8 MHz, 32 kHz	✓	-	22	-	3	-	-	5	5	11	2 UART, 2 SPI/I²C (MSSP)	-	-	-	✓	-	\$2.13 BOR, HLVD, POR, WDT, OST, XLP TQFP, QFN, UQFN
	PIC24FJ32GA004	R	35	PIC24	32	8192	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	-	13	-	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I²C	-	-	-	✓	✓	\$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	✓	-	16	-	3	-	-	3	3	5	2 UART, 2 SPI, 2 I²C	-	-	-	✓	-	\$2.30 PWRT, 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	✓	13	-	-	3	-	-	5	5	5	2 UART, 2 SPI, 2 I²C	-	-	-	✓	✓	\$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	✓	-	16	-	3	-	-	3	3	5	2 UART, 2 SPI, 2 I²C	-	-	-	✓	-	\$2.44 PWRT, HLVD, POR, OST, WDT, QFN (ML), UQFN (MV)
	PIC24FJ32GB004	R	33	PIC24	32	8192	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	13	-	-	3	-	-	5	5	5	2 UART, 2 SPI, 2 I²C	✓	-	-	✓	✓	\$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	-	13	-	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I²C	-	-	-	✓	✓	\$2.72 BOR, LVD, POR, WDT TQFP (PT), QFN (ML)
44-Pin	PIC24FJ64GA204	NR	35	PIC24	64	8	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	-	13	-	3	-	-	6	6	5	4 UART, 3 SPI/2 I²C	✓	✓	-	✓	✓	\$2.72 BOR, LVD, POR, WDT, OST, XLP TQFP (PT), QFN (ML)
	PIC24FJ64GA104	R	35	PIC24	64	8192	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	13	-	-	3	-	-	6	6	5	2 UART, 2 SPI, 2 I²C	-	-	-	✓	✓	\$2.86 BOR, LVD, POR, WDT, Deep Sleep, XLP TQFP (PT), QFN (ML)
	PIC24FJ64GB204	NR	34	PIC24	64	8	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	-	12	-	3	-	-	6	6	5	4 UART, 3 SPI/2 I²C	✓	✓	-	✓	✓	\$2.93 BOR, HLVD, POR, WDT, OST, XLP TQFP (PT), QFN (ML)
	PIC24FJ128GA204	NR	35	PIC24	128	8	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	-	13	-	3	-	-	6	6	5	4 UART, 3 SPI/2 I²C	-	✓	-	✓	✓	\$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	✓	13	-	-	3	-	-	5	5	5	2 UART, 2 SPI, 2 I²C	✓	-	-	✓	✓	\$3.07 BOR, LVD, POR, WDT, Deep Sleep, XLP TQFP (PT), QFN (ML)
	PIC24FJ128GB204	NR	34	PIC24	128	8	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	-	12	-	3	-	-	6	6	5	4 UART, 3 SPI/2 I²C	✓	✓	-	✓	✓	\$3.18 BOR, HLVD, POR, WDT, OST, XLP TQFP (PT), QFN (ML)
	PIC24FJ64GA004	NR	34	PIC24	128	8	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	-	12	-	3	-	-	6	6	5	4 UART, 3 SPI/2 I²C	✓	✓	-	✓	✓	\$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".

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

16-BIT PIC® MICROCONTROLLERS (PIC24F)																			Packages (Designator)											
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	DMA #Ch		Maximum MIPS	Internal Oscillator	Charge Time Measurement Unit	10-bit ADC	10/12-bit ADC 1100/500 KSPS	16-bit ADC (diff ch)	Comparators	LCD Segments	Graphics Controller	Output Compare/PWM	Input Capture	16-bit Timer ⁽²⁾	USB 2.0 (Peripheral, Host, OTG)	Hardware Crypto	PMP	RTCC/CRC	PPS	5 ku Pricing [†]	System Mgmt. Features			
64-Pin	PIC24FJ64GA306 ^{MR}	R	53	PIC24	64	8192	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	-	16	-	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)
	PIC24FJ128GA306 ^{MR}	R	53	PIC24	128	8192	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	-	16	-	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	-	16	-	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I ² C™	-	-	✓	✓	-	\$3.05	BOR, POR, WDT	TQFP (PT)
	PIC24FJ64GA106	R	53	PIC24	64	16384	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	16	-	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C™	-	-	✓	✓	✓	\$3.32	BOR, LVD, POR, WDT	TQFP (PT), QFN (MR)
	PIC24FJ128GA006	R	53	PIC24	128	8192	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	-	16	-	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I ² C™	-	-	✓	✓	-	\$3.35	BOR, POR, WDT	TQFP (PT)
	PIC24FJ128GA106	R	53	PIC24	128	16384	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	16	-	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C™	-	-	✓	✓	✓	\$3.56	BOR, LVD, POR, WDT	TQFP (PT), QFN (MR)
	PIC24FJ64GC006 ^{MR}	R	48	PIC24	64	8	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	-	30	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	✓	16	-	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C™	✓	-	✓	✓	✓	\$3.64	BOR, LVD, POR, WDT	TQFP (PT), QFN (MR)
	PIC24FJ128GC006 ^{MR}	R	48	PIC24	128	8192	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	-	30	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	✓	16	-	-	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	✓	16	-	-	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	✓	16	-	-	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	✓	16	-	-	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	✓	16	-	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C™	✓	-	✓	✓	✓	\$4.35	BOR, LVD, POR, WDT	TQFP (PT), QFN (MR)
	PIC24FJ256GB206	R	52	PIC24	256	98304	AN1095 ⁽¹⁾	-	2.2V-3.6V	16	8 MHz, 32 kHz	✓	16	-	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C™	✓	-	✓	✓	✓	\$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	✓	16	-	-	3	-	✓	9	9	5	4 UART, 3 SPI, 3 I ² C™	✓	-	-	✓	✓	\$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	✓	16	-	-	3	-	✓	9	9	5	4 UART, 3 SPI, 3 I ² C™	✓	-	-	✓	✓	\$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	✓	16	-	-	3	-	✓	9	9	5	4 UART, 3 SPI, 3 I ² C™	✓	-	-	✓	✓	\$5.11	BOR, LVD, POR, WDT	TQFP (PT), QFN (MR)
80-Pin	PIC24FJ64GA308 ^{MR}	R	69	PIC24	64	8192	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	-	16	-	3	368	-	7	7	5	4 UART, 2 SPI, 2 I ² C™	-	-	✓	✓	✓	\$2.98	BOR, LVD, POR, WDT, XLP, Deep Sleep	TQFP (PT)
	PIC24FJ128GA308 ^{MR}	R	69	PIC24	128	8192	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	-	16	-	3	368	-	7	7	5	4 UART, 2 SPI, 2 I ² C™	-	-	✓	✓	✓	\$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	-	16	-	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I ² C™	-	-	✓	✓	-	\$3.30	BOR, POR, WDT	TQFP (PT)
	PIC24FJ64GA108	R	69	PIC24	64	16384	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	16	-	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C™	-	-	✓	✓	✓	\$3.58	BOR, LVD, POR, WDT	TQFP (PT)
	PIC24FJ128GA008	R	69	PIC24	128	8192	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	-	16	-	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I ² C™	-	-	✓	✓	-	\$3.60	BOR, POR, WDT	TQFP (PT)
	PIC24FJ128GA108	R	69	PIC24	128	16384	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	16	-	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C™	-	-	✓	✓	✓	\$3.82	BOR, LVD, POR, WDT	TQFP (PT)
	PIC24FJ64GB108	R	68	PIC24	64	16384	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	16	-	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C™	✓	-	✓	✓	✓	\$3.91	BOR, LVD, POR, WDT	TQFP (PT)
	PIC24FJ128GB108	R	68	PIC24	128	16384	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	16	-	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C™	✓	-	✓	✓	✓	\$4.20	BOR, LVD, POR, WDT	TQFP (PT)
	PIC24FJ256GA108	R	69	PIC24	256	16384	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	16	-	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C™	-	-	✓	✓	✓	\$4.24	BOR, LVD, POR, WDT	TQFP (PT)
	PIC24FJ256GB108	R	68	PIC24	256	16384	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	16	-	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ² C™	✓	-	✓	✓	✓	\$4.62	BOR, LVD, 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.

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			Voltage Range	Maximum MIPS	Operating Speed	Analog Sensing & Measurement			LCD Segments	Communication			Monitors	System Mgmt. Features	Packages (Designator)								
	Program (KB)	Data RAM (B)			EEPROM	DMA #Ch	Charge Time Measurement Unit				10-bit ADC	10/12-bit ADC 1100/500 KSPS	16-bit ADC (diff ch)	Comparators	Graphics Controller	Output Compare/PWM	Input Capture	16-bit Timer ⁽²⁾										
PIC24FJ64GA310 [†]	R	85	PIC24	64	8192	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	-	24	-	3	480	-	7	7	5	4 UART, 2 SPI, 2 I ^C ™	-	-	✓	✓	\$3.16	BOR, LVD, POR, WDT, Deep Sleep	TQFP (PT), BGA121 (BG)
PIC24FJ128GA310 [†]	R	85	PIC24	128	8192	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	-	24	-	3	480	-	7	7	5	4 UART, 2 SPI, 2 I ^C	-	-	✓	✓	\$3.42	BOR, LVD, POR, WDT, Deep Sleep	TQFP (PT), BGA121 (BG)
PIC24FJ64GA010	R	85	PIC24	64	8192	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	-	16	-	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I ^C	-	-	✓	✓	\$3.51	BOR, POR, WDT	TQFP (PT)
PIC24FJ64GA110	R	85	PIC24	64	16384	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	16	-	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ^C	-	-	✓	✓	\$3.79	BOR, LVD, POR, WDT	TQFP (PT), BGA121 (BG)
PIC24FJ64GC010 [†]	R	80	PIC24	64	8	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	-	50	2	3	472	-	9	9	5	4 UART, 2 SPI, 2 I ^C	✓	-	✓	✓	\$3.79	BOR, HLVD, 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	-	16	-	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I ^C	-	-	✓	✓	\$3.81	BOR, POR, WDT	TQFP (PT)
PIC24FJ128GC010 [†]	R	80	PIC24	128	8	AN1095 ⁽¹⁾	6	2V-3.6V	16	8 MHz, 32 kHz	✓	-	50	2	3	472	-	9	9	5	4 UART, 2 SPI, 2 I ^C	✓	-	✓	✓	\$4.02	BOR, HLVD, POR, WDT, OST, XLP, V _{BAT}	TQFP (PT), BGA (BG)
PIC24FJ128GA110	R	85	PIC24	128	16384	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	16	-	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ^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	✓	16	-	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ^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	✓	16	-	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ^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	✓	16	-	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ^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	✓	24	-	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ^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	✓	24	-	-	3	-	✓	9	9	5	4 UART, 3 SPI, 3 I ^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	✓	16	-	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ^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	✓	24	-	-	3	-	-	9	9	5	4 UART, 3 SPI, 3 I ^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	✓	24	-	-	3	-	✓	9	9	5	4 UART, 3 SPI, 3 I ^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	✓	24	-	-	3	-	✓	9	9	5	4 UART, 3 SPI, 3 I ^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	✓	24	-	-	3	-	✓	9	9	5	4 UART, 3 SPI, 3 I ^C	✓	-	✓	✓	\$5.60	BOR, LVD, POR, WDT	TQFP (PT), BGA121 (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.

16-BIT PIC® MICROCONTROLLERS (PIC24H/E)

Product	Released (R) Not Released (NR)		I/O Pins	Core	Memory			Voltage Range	Maximum MIPS	Operating Speed	Analog Sensing & Measurement			Output Compare/PWM	Communication			Monitors	System Mgmt. Features	Packages (Designator)									
	Program (KB)	Data RAM (B)			EEPROM	DMA #Ch	Charge Time Measurement Unit				10-bit ADC	10/12-bit ADC 1100/500 KSPS	Comparators	Op Amps	Motor Control PWM Ch.	QEI	Input Capture	16-bit Timer ⁽²⁾	Digital Communication	CAN	FS USB OTG	PMP	RTCC/CRC	PPS	5 Ku Pricing ⁽¹⁾				
PIC24HJ12GP201	R	13	PIC24	12	1	AN1095 ⁽¹⁾	-	3V-3.6V	40	7.37 MHz, 32 kHz	-	-	6 ch	-	-	2	-	-	4	3	1 UART, 1 SPI, 1 I ^C ™	-	-	-	-	✓	\$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	✓	-	6 ch	1+2*	2	10	6	1	4	5	2 UART, 2 SPI, 1 I ^C	-	-	-	-	✓	\$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	✓	-	6 ch	1+2*	2	4	-	-	4	5	2 UART, 2 SPI, 1 I ^C	-	-	-	-	✓	\$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	✓	-	6 ch	1+2*	2	10	6	1	4	5	2 UART, 2 SPI, 1 I ^C	-	-	-	-	✓	\$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	✓	-	6 ch	1+2*	2	4	-	-	4	5	2 UART, 2 SPI, 1 I ^C	-	-	-	-	✓	\$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	✓	-	6 ch	1+2*	2	10	6	1	4	5	2 UART, 2 SPI, 1 I ^C	-	-	-	-	✓	\$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	✓	-	6 ch	1+2*	2	4	-	-	4	5	2 UART, 2 SPI, 1 I ^C	-	-	-	-	✓	\$2.66	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (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.

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		System Mgmt. Features	Packages (Designator)							
					Program (KB)	Data RAM (B)	EEPROM		Maximum MIPS	Internal Oscillator	Charge Time Measurement Unit	10-bit ADC	10/12-bit ADC 1100/500 KSPS	Comparators	Op Amps	Output Compare/PWM	Motor Control PWM Ch.	QEI	Input Capture	16-bit Timer ⁽²⁾	Digital Communication	CAN	FS USB OTG	PMP	RTCC/CRC	PPS	5 Ku Pricing ⁽¹⁾			
28-Pin (Cont.)	PIC24EP256MC202	R	21	PIC24	256	32	AN1095 ⁽¹⁾	4	3V~3.6V	70	7.37 MHz, 32 kHz	✓	-	6 ch	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	✓	-	6 ch	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	✓	-	6 ch	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	✓	-	6 ch	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)
36-Pin	PIC24EP64MC203	R	25	PIC24	64	8	AN1095 ⁽¹⁾	4	3V~3.6V	70	7.37 MHz, 32 kHz	✓	-	8 ch	1+2*	3	10	6	1	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.52	PBOR, POR, WDT	VTLA (TL)
	PIC24EP64GP203	R	25	PIC24	64	8	AN1095 ⁽¹⁾	4	3V~3.6V	70	7.37 MHz, 32 kHz	✓	-	8 ch	1+2*	3	4	-	-	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.52	PBOR, POR, WDT	VTLA (TL)
	PIC24EP32MC203	R	25	PIC24	32	4	AN1095 ⁽¹⁾	4	3V~3.6V	70	7.37 MHz, 32 kHz	✓	-	8 ch	1+2*	3	10	6	1	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$1.96	PBOR, POR, WDT	VTLA (TL)
	PIC24EP32GP203	R	25	PIC24	32	4	AN1095 ⁽¹⁾	4	3V~3.6V	70	7.37 MHz, 32 kHz	✓	-	8 ch	1+2*	3	4	-	-	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$1.96	PBOR, POR, WDT	VTLA (TL)
44-Pin	PIC24EP32MC204	R	35	PIC24	32	4	AN1095 ⁽¹⁾	4	3V~3.6V	70	7.37 MHz, 32 kHz	✓	-	9 ch	1+3*	3	10	6	1	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.03	PBOR, POR, WDT	VTLA(TL), QFN(ML), TQFP(PT)
	PIC24EP32GP204	R	35	PIC24	32	4	AN1095 ⁽¹⁾	4	3V~3.6V	70	7.37 MHz, 32 kHz	✓	-	9 ch	1+3*	3	4	-	-	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.03	PBOR, POR, WDT	VTLA(TL), QFN(ML), TQFP(PT)
	PIC24EP64MC204	R	35	PIC24	64	8	AN1095 ⁽¹⁾	4	3V~3.6V	70	7.37 MHz, 32 kHz	✓	-	9 ch	1+3*	3	10	6	1	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.59	PBOR, POR, WDT	VTLA(TL), QFN(ML), TQFP(PT)
	PIC24EP64GP204	R	35	PIC24	64	8	AN1095 ⁽¹⁾	4	3V~3.6V	70	7.37 MHz, 32 kHz	✓	-	9 ch	1+3*	3	4	-	-	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.59	PBOR, POR, WDT	VTLA(TL), QFN(ML), TQFP(PT)
48-Pin	PIC24EP128MC204	R	35	PIC24	128	16	AN1095 ⁽¹⁾	4	3V~3.6V	70	7.37 MHz, 32 kHz	✓	-	9 ch	1+3*	3	10	6	1	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.80	PBOR, POR, WDT	VTLA(TL), QFN(ML), TQFP(PT)
	PIC24EP128GP204	R	35	PIC24	128	16	AN1095 ⁽¹⁾	4	3V~3.6V	70	7.37 MHz, 32 kHz	✓	-	9 ch	1+3*	3	4	-	-	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.80	PBOR, POR, WDT	VTLA(TL), QFN(ML), TQFP(PT)
	PIC24EP256MC204	R	35	PIC24	256	32	AN1095 ⁽¹⁾	4	3V~3.6V	70	7.37 MHz, 32 kHz	✓	-	9 ch	1+3*	3	10	6	1	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$3.28	PBOR, POR, WDT	VTLA(TL), QFN(ML), TQFP(PT)
	PIC24EP256GP204	R	35	PIC24	256	32	AN1095 ⁽¹⁾	4	3V~3.6V	70	7.37 MHz, 32 kHz	✓	-	9 ch	1+3*	3	4	-	-	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$3.28	PBOR, POR, WDT	VTLA(TL), QFN(ML), TQFP(PT)
56-Pin	PIC24EP512MC204	R	35	PIC24	512	48	AN1095 ⁽¹⁾	4	3V~3.6V	70	7.37 MHz, 32 kHz	✓	-	9 ch	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	✓	-	9 ch	1+3*	3	4	-	-	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$3.64	PBOR, POR, WDT	QFN(ML), TQFP(PT)
	PIC24EP64MC206	R	53	PIC24	64	8	AN1095 ⁽¹⁾	4	3V~3.6V	70	7.37 MHz, 32 kHz	✓	-	16 ch	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	✓	-	16 ch	1+3*	3	4	-	-	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.73	PBOR, POR, WDT	QFN(MR), TQFP(PT)
64-Pin	PIC24EP128MC206	R	53	PIC24	128	16	AN1095 ⁽¹⁾	4	3V~3.6V	70	7.37 MHz, 32 kHz	✓	-	16 ch	1+3*	3	10	6	1	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$2.94	PBOR, POR, WDT	QFN(MR), TQFP(PT)
	PIC24EP128GP206	R	53	PIC24	128	16	AN1095 ⁽¹⁾	4	3V~3.6V	70	7.37 MHz, 32 kHz	✓	-	16 ch	1+3*	3	4	-	-	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$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	✓	-	16 ch	1+3*	3	10	6	1	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$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	✓	-	16 ch	1+3*	3	4	-	-	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$3.42	PBOR, POR, WDT	QFN(MR), TQFP(PT)
100-Pin	PIC24EP512MC206	R	53	PIC24	512	48	AN1095 ⁽¹⁾	4	3V~3.6V	70	7.37 MHz, 32 kHz	✓	-	16 ch	1+3*	3	10	6	1	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$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	✓	-	16 ch	1+3*	3	4	-	-	4	5	2 UART, 2 SPI, 1 I²C	-	-	-	✓	✓	\$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	✓	-	24 ch, 2 A/D	3	-	16	9	4 UART, 2 SPI, 2 I²C	2	-	✓	✓	✓	\$5.60	PBOR, POR, WDT	QFN(MR), TQFP(PT)			
	PIC24HJ64GP210A	R	85	PIC24	64	8	AN1095 ⁽¹⁾	8	3V~3.6V	40	7.37 MHz, 32 kHz	-	-	32 ch	-	-	8	-	-	8	9	2 UART, 2 SPI, 2 I²C	-	-	-	-	-	\$3.88	PBOR, POR, WDT	TQFP (PT, PF)
144-Pin	PIC24HJ64GP510A	R	85	PIC24	64	8	AN1095 ⁽¹⁾	8	3V~3.6V	40	7.37 MHz, 32 kHz	-	-	32 ch	-	-	8	-	-	8	9	2 UART, 2 SPI, 2 I²C	-	-	-	-	-	\$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	-	-	32 ch	-	-	8	-	-	8	9	2 UART, 2 SPI, 2 I²C	-	-	-	-	-	\$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	-	-	32 ch	-	-	8	-	-	8	9	2 UART, 2 SPI, 2 I²C	-	-	-	-	-	\$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	-	-	32 ch	-	-	8	-	-	8	9	2 UART, 2 SPI, 2 I²C	-	-	-	-	-	\$3.88	PBOR, POR, WDT	TQFP (PT, PF)
100-Pin	PIC24HJ256GP210A	R	85	PIC24	256	16	AN1095 ⁽¹⁾	8	3V~3.6V	40	7.37 MHz, 32 kHz	-	-	32 ch, 2 ADC	-	-	8	-	-	8	9	2 UART, 2 SPI, 2 I²C	2	-	-	-	-	\$3.88	PBOR, POR, WDT	TQFP (PT, PF)
	PIC24EP256GU810	R	85	PIC24	280	28	AN1095 ⁽¹⁾	15	3V~3.6V	60	7.37 MHz, 32 kHz	-	-	32 ch, 2 ADC	3	-	16	9	4 UART, 4 SPI, 2 I²C	2	✓	✓	✓	✓	\$5.70	PBOR, POR, WDT	TQFP (PT, PF)			
	PIC24EP512GU810	R	85	PIC24	536	52	AN1095 ⁽¹⁾	15	3V~3.6V	60	7.37 MHz, 32 kHz	-	-	32 ch, 2 ADC	3	-	16	9	4 UART, 4 SPI, 2 I²C	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	-	-	32 ch, 2 ADC	3	-	16	9	4 UART, 4 SPI, 2 I²C	2	✓	✓	✓	✓	\$6.31	PBOR, POR, WDT	TQFP (PH), LQFP (PL)			
144-Pin	PIC24EP512GU814	R	122	PIC24	536	28	AN1095 ⁽¹⁾	15	3V~3.6V	60	7.37 MHz, 32 kHz	-	-	32 ch, 2 ADC	3	-	16	9	4 UART, 4 SPI, 2 I²C	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".

dsPIC33 DSC GENERAL PURPOSE AND MOTOR CONTROL FAMILY

Product	Memory										Operating Speed		Analog Sensing & Measurement						Communication				Monitors		System Mgmt. Features		Packages (Designator)				
	Core		Program (KB)		Data RAM (B)		EEPROM		DMA #Ch				Voltage Range	Maximum Speed MIPS	Internal Oscillator	Charge Time Measurement Unit	ADC 10/12-bit 1100/500 ksp/s	DAC	Comparators	Op Amps	Output Compare/PWM	Input Capture	Motor Control PWM Ch	QEI	16-bit Timer ⁽²⁾						
	Released (R) Not Released (NR)	I/O Pins																													
20-Pin	dsPIC33FJ16GP101*	R	13	dsPIC®	16	1	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	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), QFN (MQL), SSOP (SS)
	dsPIC33FJ16MC101*	R	15	dsPIC	16	1	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	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), QFN (MQL), SSOP (SS)
	dsPIC33FJ32GP101*	R	13	dsPIC	32	2	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	6 ch	-	-	3	-	2	3	-	-	5	1 UART, 1 SPI, 1 I ² C	-	-	-	✓	✓	\$1.68	BOR, POR, WDT	PDIP(P), SOIC(SO), QFN (MQL), SSOP (SS)
	dsPIC33FJ32MC101*	R	15	dsPIC	32	2	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	6 ch	-	-	3	-	2	3	6	-	5	1 UART, 1 SPI, 1 I ² C	-	-	-	✓	✓	\$1.68	BOR, POR, WDT	PDIP(P), SOIC (SO), SSOP (SS)
28-Pin	dsPIC33FJ16GP102*	R	21	dsPIC	16	1	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	6 ch (10-bit)	-	-	3	-	2	3	-	-	3	1 UART, 1 SPI, 1 I ² C	-	-	-	✓	✓	\$1.68	BOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MQL), VTLA (TL)
	dsPIC33FJ16MC102*	R	21	dsPIC	16	1	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	6 ch (10-bit)	-	-	3	-	2	3	6	-	3	1 UART, 1 SPI, 1 I ² C	-	-	-	✓	✓	\$1.68	BOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MQL), VTLA (TL)
	dsPIC33FJ32GP102*	R	21	dsPIC	32	2	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	8 ch	-	-	3	-	2	3	-	-	5	1 UART, 1 SPI, 1 I ² C	-	-	-	✓	✓	\$1.73	BOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MQL), VTLA (TL)
	dsPIC33FJ32MC102*	R	21	dsPIC	32	2	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	8 ch	-	-	3	-	2	3	6	-	5	1 UART, 1 SPI, 1 I ² C	-	-	-	✓	✓	\$1.73	BOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	dsPIC33EP32GP502*	R	21	dsPIC	32	4	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	6 ch	-	1 + 2 [#]	2	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$2.10	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)	
	dsPIC33EP32MC502*	R	21	dsPIC	32	4	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	6 ch	-	1 + 2 [#]	2	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$2.10	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)	
	dsPIC33EP64MC202*	R	21	dsPIC	64	8	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	6 ch	-	1 + 2 [#]	2	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	0	-	-	✓	✓	\$2.45	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)	
	dsPIC33EP64GP502*	R	21	dsPIC	64	8	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	6 ch	-	1 + 2 [#]	2	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$2.66	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)	
	dsPIC33EP64MC502*	R	21	dsPIC	64	8	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	6 ch	-	1 + 2 [#]	2	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$2.66	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)	
	dsPIC33EP128MC202*	R	21	dsPIC	128	16	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	6 ch	-	1 + 2 [#]	2	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	0	-	-	✓	✓	\$2.66	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)	
	dsPIC33EP128GP502*	R	21	dsPIC	128	16	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	6 ch	-	1 + 2 [#]	2	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$2.87	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)	
	dsPIC33EP128MC502*	R	21	dsPIC	128	16	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	6 ch	-	1 + 2 [#]	2	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$2.87	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)	
	dsPIC33EP256MC202*	R	21	dsPIC	256	32	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	6 ch	-	1 + 2 [#]	2	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	0	-	-	✓	✓	\$3.14	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)	
	dsPIC33EP256GP502*	R	21	dsPIC	256	32	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	6 ch	-	1 + 2 [#]	2	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$3.35	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)	
	dsPIC33EP256MC502*	R	21	dsPIC	256	32	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	6 ch	-	1 + 2 [#]	2	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$3.35	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)	
	dsPIC33FJ64GP802	R	21	dsPIC	64	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	✓	13 ch (12-bit)	4x 16-bit	1	2	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$3.42	BOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN-S (MM)	
	dsPIC33EP512MC202*	R	21	dsPIC	512	48	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	6 ch	-	1 + 2 [#]	2	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	0	-	-	✓	✓	\$3.50	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)	
	dsPIC33EP512GP502*	R	21	dsPIC	512	48	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	6 ch	-	1 + 2 [#]	2	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$3.71	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)	
	dsPIC33EP512MC502*	R	21	dsPIC	512	48	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	6 ch	-	1 + 2 [#]	2	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$3.71	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)	
	dsPIC33FJ128GP802	R	21	dsPIC	64	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	✓	13 ch (12-bit)	4x 16-bit	1	2	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$3.72	BOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN-S (MM)	
36-Pin	dsPIC33EP32MC203*	R	25	dsPIC	32	4	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	8 ch	-	1 + 2 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	0	-	-	✓	✓	\$1.96	PBOR, POR, WDT	VTLA (TL)	
	dsPIC33EP32GP503*	R	25	dsPIC	32	4	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	8 ch	-	1 + 2 [#]	3	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$2.17	PBOR, POR, WDT	VTLA (TL)	
	dsPIC33EP32MC503*	R	25	dsPIC	32	4	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	8 ch	-	1 + 2 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$2.17	PBOR, POR, WDT	VTLA (TL)	
	dsPIC33EP64MC203*	R	25	dsPIC	64	8	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	8 ch	-	1 + 2 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	0	-	-	✓	✓	\$2.52	PBOR, POR, WDT	VTLA (TL)	
	dsPIC33EP64GP503*	R	25	dsPIC	64	8	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	8 ch	-	1 + 2 [#]	3	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$2.73	PBOR, POR, WDT	VTLA (TL)	
	dsPIC33EP64MC503*	R	25	dsPIC	64	8	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	8 ch	-	1 + 2 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$2.73	PBOR, POR, WDT	VTLA (TL)	
	dsPIC33EP256MC203*	R	25	dsPIC	256	32	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	8 ch	-	1 + 3 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	✓	\$3.21	PBOR, POR, WDT	VTLA (TL)	
44-Pin	dsPIC33FJ32GP104*	R	35	dsPIC	32	2	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	14 ch	-	3	-	2	3	-	-	5	1 UART, 1 SPI, 1 I ² C	-	-	-	✓	✓	\$2.02	BOR, POR, WDT	TQFP (PT), TLA, QFN (ML)	
	dsPIC33FJ32MC104*	R	35	dsPIC	32	2	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	14 ch	-	3	-	2	3	6	-	5	1 UART, 1 SPI, 1 I ² C	-	-	-	✓	✓	\$2.02	BOR, POR, WDT	TQFP (PT), VTLA (TL), QFN (ML)	
	dsPIC33EP32MC204*	R	35	dsPIC	32	4	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	9 ch	-	1 + 3 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	0	-	-	✓	✓	\$2.03	PBOR, POR, WDT	TQFP (PT), VTLA (TL), QFN (ML)	
	dsPIC33EP32GP504*	R	35	dsPIC	32	4	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	9 ch	-	1 + 3 [#]	3	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$2.24	PBOR, POR, WDT	TQFP (PT), VTLA (TL), QFN (ML)	
	dsPIC33EP32MC504*	R	35	dsPIC	32</td																										

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			
								Program (KB)	Data RAM (B)	EEPROM	DMA #Ch					Maximum Speed MIPS	Internal Oscillator	Charge Time Measurement Unit	ADC 10/12-bit 1100/500 Kbps	DAC	Comparators	Op Amps	Output Compare/PWM	Input Capture	Motor Control PWM Ch	QEI			
44Pin (Cont.)	dsPIC33EP128MC204*	R	35	dsPIC	128	16	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	9 ch	-	1 + 3 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	0	-	-	✓	✓	\$2.80	PBOR, POR, WDT TQFP (PT), VTLA (TL), QFN (ML)
	dsPIC33EP128GP504*	R	35	dsPIC	128	16	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	9 ch	-	1 + 3 [#]	3	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$3.01	PBOR, POR, WDT TQFP (PT), VTLA (TL), QFN (ML)
	dsPIC33EP128MC504*	R	35	dsPIC	128	16	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	9 ch	-	1 + 3 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$3.01	PBOR, POR, WDT TQFP (PT), VTLA (TL), QFN (ML)
	dsPIC33EP256MC204*	R	35	dsPIC	256	32	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	9 ch	-	1 + 3 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	0	-	-	✓	✓	\$3.28	PBOR, POR, WDT TQFP (PT), VTLA (TL), QFN (ML)
	dsPIC33EP256GP504*	R	35	dsPIC	256	32	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	9 ch	-	1 + 3 [#]	3	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$3.49	PBOR, POR, WDT TQFP (PT), VTLA (TL), QFN (ML)
	dsPIC33EP256MC504*	R	35	dsPIC	256	32	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	9 ch	-	1 + 3 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$3.49	PBOR, POR, WDT TQFP (PT), VTLA (TL), QFN (ML)
	dsPIC33EP512MC204*	R	35	dsPIC	512	48	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	9 ch	-	1 + 3 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	0	-	-	✓	✓	\$3.64	PBOR, POR, WDT TQFP (PT), VTLA (TL), QFN (ML)
	dsPIC33FJ64GP804	R	35	dsPIC ⁽²⁾	128	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	✓	13 ch (12-bit)	6x 16-bit	2	2	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C TM	1	-	-	✓	✓	\$3.65	BOR, POR, WDT QFN (ML), TQFP (PT)
	dsPIC33EP128GM304*	R	35	dsPIC	128	16	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	18 ch, 2 A/D	-	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)
	dsPIC33EP256GM304*	R	35	dsPIC	256	32	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	18 ch, 2 A/D	✓	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	512	48	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	9 ch	-	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	512	48	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	9 ch	-	1 + 3 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$3.85	PBOR, POR, WDT TQFP (PT), VTLA (TL), QFN (ML)
	dsPIC33EP128GM604*	R	35	dsPIC	128	16	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	18 ch, 2 A/D	-	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)
	dsPIC33F128GP804	R	35	dsPIC	128	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	✓	13 ch (12-bit)	6x 16-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	256	32	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	18 ch, 2 A/D	✓	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	512	48	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	18 ch, 2 A/D	-	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)
	dsPIC33EP512GM604*	R	35	dsPIC	512	48	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	18 ch, 2 A/D	-	1 + 4 [#]	4	8	8	12	2	9	4 UART, 3 SPI, 2 I ² C	2	-	-	✓	✓	\$4.27	BOR, POR, WDT TQFP (PT), QFN (ML)
64Pin	dsPIC33EP64MC206*	R	53	dsPIC	64	8	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	16 ch	-	1 + 3 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	0	-	-	✓	✓	\$2.73	PBOR, POR, WDT TQFP (PT), QFN (MR)
	dsPIC33EP64GP506*	R	53	dsPIC	64	8	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	16 ch	-	1 + 3 [#]	3	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	64	8	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	16 ch	-	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	128	16	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	16 ch	-	1 + 3 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	0	-	-	✓	✓	\$2.94	PBOR, POR, WDT TQFP (PT), QFN (MR)
	dsPIC33EP128GP506*	R	53	dsPIC	128	16	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	16 ch	-	1 + 3 [#]	3	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	128	16	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	16 ch	-	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)
	dsPIC33EP256MC206*	R	53	dsPIC	256	32	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	16 ch	-	1 + 3 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	0	-	-	✓	✓	\$3.42	PBOR, POR, WDT TQFP (PT), QFN (MR)
	dsPIC33EP256GP506*	R	53	dsPIC	256	32	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	16 ch	-	1 + 3 [#]	3	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	256	32	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	16 ch	-	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)
	dsPIC33EP512MC206*	R	53	dsPIC	512	48	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	16 ch	-	1 + 3 [#]	3	4	4	6	1	5	2 UART, 2 SPI, 1 I ² C	0	-	-	✓	✓	\$3.78	PBOR, POR, WDT TQFP (PT), QFN (MR)
	dsPIC33EP128GM306*	R	53	dsPIC	128	16	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	30 ch, 2 A/D	-	1 + 4 [#]	4	8	8	12	2	9	4 UART, 3 SPI, 2 I ² C	-	-	✓	✓	\$3.89	BOR, POR, WDT TQFP (PT), QFN (MR)	
	dsPIC33EP512GP506*	R	53	dsPIC	512	48	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	16 ch	-	1 + 3 [#]	3	4	4	-	-	5	2 UART, 2 SPI, 1 I ² C	1	-	-	✓	✓	\$3.99	PBOR, POR, WDT TQFP (PT), QFN (MR)
	dsPIC33EP512MC506*	R	53	dsPIC	512	48	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	16 ch	-	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)
	dsPIC33EP256GM306*	R	53	dsPIC	256	32	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	30 ch, 2 A/D	-	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	128	16	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	30 ch, 2 A/D	-	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	256	32	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	30 ch, 2 A/D	-	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	512	48	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	30 ch, 2 A/D	-	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	512	48	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	30 ch, 2 A/D	-	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	536	52	AN1095 ⁽¹⁾	15	3V-3.6V	70	7.37 MHz, 32 kHz	-	24 ch, 2 ADC	-	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	536	52	AN1095 ⁽¹⁾	15	3V-3.6V	70	7.37 MHz, 32 kHz	-	24 ch, 2 ADC	-	3	-</													

dsPIC33 DSC GENERAL PURPOSE AND MOTOR CONTROL FAMILY																													
Product		Released (R) Not Released (NR)		Memory				Voltage Range		Operating Speed		Analog Sensing & Measurement						Communication				Monitors		Packages (Designator)					
				Program (KB)	Data RAM (B)	EEPROM	DMA #Ch					Maximum Speed MHz	Internal Oscillator	Charge Time Measurement Unit	ADC 10/12-bit 1100/500 ksp/s	DAC	Comparators	Op Amps	Output Compare/PWM	Input Capture	Motor Control PWM Ch	QEI							
100/121-Pin	dsPIC33FJ64GP310A*	R	85	dsPIC	64	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	32 ch	-	-	8	8	-	-	9	2 UART, 2 SPI, 2 I ² C	-	-	-	\$3.99	PBOR, POR, WDT	TQFP (PT, PF)		
	dsPIC33FJ64MC510A*	R	85	dsPIC	64	8	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	24 ch	-	-	8	8	-	-	9	2 UART, 2 SPI, 2 I ² C	1	-	-	\$4.33	PBOR, POR, WDT	TQFP (PT, PF)		
	dsPIC33FJ128GP310A*	R	85	dsPIC	128	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	32 ch	-	-	8	8	-	-	9	2 UART, 2 SPI, 2 I ² C	-	-	-	\$4.25	PBOR, POR, WDT	TQFP (PT, PF)		
	dsPIC33FJ128MC510A*	R	85	dsPIC	128	8	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	24 ch	-	-	8	8	-	-	9	2 UART, 2 SPI, 2 I ² C	1	-	-	\$4.59	PBOR, POR, WDT	TQFP (PT, PF)		
	dsPIC33FJ64GP710A*	R	85	dsPIC	64	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	32 ch, 2 ADC	-	-	8	8	-	-	9	2 UART, 2 SPI, 2 I ² C	2	-	-	\$4.61	PBOR, POR, WDT	TQFP (PT, PF)		
	dsPIC33FJ64MC710A*	R	85	dsPIC	64	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	24 ch, 2 ADC	-	-	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	256	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	32 ch	-	-	8	8	-	-	9	2 UART, 2 SPI, 2 I ² C	1	-	-	\$4.66	PBOR, POR, WDT	TQFP (PT, PF)		
	dsPIC33FJ128GP710A*	R	85	dsPIC	128	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	32 ch, 2 ADC	-	-	8	8	-	-	9	2 UART, 2 SPI, 2 I ² C	2	-	-	\$4.86	PBOR, POR, WDT	TQFP (PT, PF)		
	dsPIC33FJ256MC510A*	R	85	dsPIC	256	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	16 ch	-	-	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	128	16	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	24 ch, 2 ADC	-	-	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	256	30	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	32 ch, 2 ADC	-	-	8	8	-	-	9	2 UART, 2 SPI, 2 I ² C	2	-	-	\$5.32	PBOR, POR, WDT	TQFP (PT, PF)		
	dsPIC33FJ256MC710A*	R	85	dsPIC	256	30	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	24 ch, 2 ADC	-	-	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	280	28	AN1095 ⁽¹⁾	15	3V-3.6V	60	7.37 MHz, 32 kHz	-	32 ch, 2 ADC	-	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	536	52	AN1095 ⁽¹⁾	15	3V-3.6V	60	7.37 MHz, 32 kHz	-	32 ch, 2 ADC	-	3	-	16	16	12	2	9	2 UART, 2 SPI, 2 I ² C	2	✓	✓	✓	\$6.37	PBOR, POR, WDT	TQFP (PT, PF)
	dsPIC33EP128GM310*	R	85	dsPIC®	128	16	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	49 ch, 2 A/D	-	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	256	32	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	49 ch, 2 A/D	-	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	128	16	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	49 ch, 2 A/D	-	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	256	32	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	49 ch, 2 A/D	-	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	512	48	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	49 ch, 2 A/D	-	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	512	48	AN1095 ⁽¹⁾	-	3V-3.6V	70	7.37 MHz, 32 kHz	✓	49 ch, 2 A/D	-	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)
144-Pin	dsPIC33EP256MU814*	R	122	dsPIC	280	28	AN1095 ⁽¹⁾	15	3V-3.6V	60	7.37 MHz, 32 kHz	-	32 ch, 2 ADC	-	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	536	52	AN1095 ⁽¹⁾	15	3V-3.6V	60	7.37 MHz, 32 kHz	-	32 ch, 2 ADC	-	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".

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

dsPIC33 DSC SMPS AND DIGITAL POWER CONVERSION FAMILY

Product	Released (R) Not Released (NR)	I/O Pins	Core	Memory				Voltage Range	Operating Speed		Analog				Communication				Monitors	System Mgmt. Features	Packages (Designator)						
				Program (KB)	Data RAM (B)	EEPROM	DMA #Ch		Maximum Speed MIPS	Internal Oscillator	ADC 10-bit 2000 kbps (± 4000 kbps)	DAC	Comparators	Output Compare/PWM	Input Capture	Power Supply PWM Ch ⁽¹⁾	QEI	16-bit Timer ⁽²⁾	Digital Communication	CAN	PMP	RTCC	PPS				
18-Pin	dsPIC33FJ06GS001	R	13	dsPIC®	6	256	AN1095 ⁽¹⁾	-	3V–3.6V	40	7.37 MHz, 32 kHz	6 ch	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	6 ch	-	-	1	-	4	-	2	1 UART, 1 SPI, 1 I ² C	-	-	-	✓	\$1.75	BOR, POR, WDT	PDIP (P), SOIC (SO), SSOP (SS)
28-Pin	dsPIC33FJ06GS102A	R	21	dsPIC	6	256	AN1095 ⁽¹⁾	-	3V–3.6V	40	7.37 MHz, 32 kHz	6 ch	-	-	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	6 ch	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	8 ch	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	8 ch	-	-	2	2	6	-	3	1 UART, 1 SPI, 1 I ² C	-	-	-	✓	\$2.52	BOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MM)
	dsPIC33FJ16GS502*	R	21	dsPIC	16	2048	AN1095 ⁽¹⁾	-	3V–3.6V	50	7.37 MHz, 32 kHz	8 ch, 2 ADC [†]	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)
44-Pin	dsPIC33FJ16GS404*	R	35	dsPIC	16	2048	AN1095 ⁽¹⁾	-	3V–3.6V	50	7.37 MHz, 32 kHz	8 ch	-	-	2	2	6	-	3	1 UART, 1 SPI, 1 I ² C	-	-	-	✓	\$2.77	BOR, POR, WDT	TQFP (PT), QFN (ML)
	dsPIC33FJ16GS504*	R	35	dsPIC	16	2048	AN1095 ⁽¹⁾	-	3V–3.6V	50	7.37 MHz, 32 kHz	12 ch, 2 ADC [†]	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)
64-Pin	dsPIC33FJ32GS406	R	58	dsPIC	32	4096	AN1095 ⁽¹⁾	-	3V–3.6V	50	7.37 MHz, 32 kHz	16 ch	-	-	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	16 ch	-	-	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	16 ch, 2 ADC [†]	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)
	dsPIC33FJ64GS606	R	58	dsPIC	64	9216	AN1095 ⁽¹⁾	4	3V–3.6V	50	7.37 MHz, 32 kHz	16 ch, 2 ADC [†]	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	dsPIC33FJ32GS608	R	74	dsPIC	32	4096	AN1095 ⁽¹⁾	-	3V–3.6V	50	7.37 MHz, 32 kHz	18 ch, 2 ADC [†]	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	18 ch, 2 ADC [†]	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	24 ch, 2 ADC [†]	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	24 ch, 2 ADC [†]	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".

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

32-BIT PIC32MX MICROCONTROLLERS

Product	Released (R) Not Released (NR)	I/O Pins	Core	Memory			DMA Channels General/Dedicated	Voltage Range	Maximum Speed (MHz)	Operating Speed		Charge Time Measurement Unit	ADC 10-bit 1,000 usps	Comparators	Communication		Timers 16/32-bit	PMP	RTCC	PPS	5 ku Pricing†	Monitors	System Mgmt. Features	Packages (Designator)				
				Flash KB + Boot Flash	Data RAM (KB)	EEPROM				Internal Oscillator	Analog			IC/OC/PWM	UARTs	FS USB	Ethernet	CAN										
															I²C™													
28-Pin	PIC32MX110F016B	R	21	PIC32	16 + 3	4	AN1095 [‡]	4/0	2.3V-3.6V	40	8 MHz, 32 kHz	✓	10 ch	3	5/5/5	5/2	2/2	2	-	-	✓	✓	✓	\$1.51	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOC (SS), QFN (ML)		
	PIC32MX120F016B	R	21	PIC32	16 + 3	4	AN1095 [‡]	4/2	2.3V-3.6V	40	8 MHz, 32 kHz	✓	10 ch	3	5/5/5	5/2	2/2	2	2	Device	-	-	✓	✓	✓	\$1.62	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOC (SS), QFN (ML)
	PIC32MX120F032B	R	21	PIC32	32 + 3	8	AN1095 [‡]	4/0	2.3V-3.6V	50	8 MHz, 32 kHz	✓	10 ch	3	5/5/5	5/2	2/2	2	2	-	-	-	✓	✓	✓	\$1.71	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOC (SS), QFN (ML)
	PIC32MX220F032B	R	21	PIC32	32 + 3	8	AN1095 [‡]	4/2	2.3V-3.6V	50	8 MHz, 32 kHz	✓	10 ch	3	5/5/5	5/2	2/2	2	2	Device	-	-	✓	✓	✓	\$1.82	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOC (SS), QFN (ML)
	PIC32MX130F064B	R	21	PIC32	64 + 3	16	AN1095 [‡]	4/0	2.3V-3.6V	40	8 MHz, 32 kHz	✓	10 ch	3	5/5/5	5/2	2/2	2	2	-	-	-	✓	✓	✓	\$2.03	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOC (SS), QFN (ML)
	PIC32MX150F128B	R	21	PIC32	128 + 3	32	AN1095 [‡]	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), SSOC (SS), QFN (ML)
	PIC32MX230F064B	R	21	PIC32	64 + 3	16	AN1095 [‡]	4/2	2.3V-3.6V	40	8 MHz, 32 kHz	✓	10 ch	3	5/5/5	5/2	2/2	2	2	OTG	-	-	✓	✓	✓	\$2.31	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOC (SS), QFN (ML)
	PIC32MX250F128B	R	21	PIC32	128 + 3	32	AN1095 [‡]	4/2	2.3V-3.6V	50	8 MHz, 32 kHz	✓	10 ch	3	5/5/5	5/2	2/2	2	2	OTG	-	-	✓	✓	✓	\$2.59	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOC (SS), QFN (ML)
	PIC32MX110F016C	R	25	PIC32	16 + 3	4	AN1095 [‡]	4/0	2.3V-3.6V	40	8 MHz, 32 kHz	✓	12 ch	3	5/5/5	5/2	2/2	2	2	-	-	-	✓	✓	✓	\$1.65	POR, BOR, LVD, WDT	VTLA (TL)
36-Pin	PIC32MX210F016C	R	25	PIC32	16 + 3	4	AN1095 [‡]	4/2	2.3V-3.6V	40	8 MHz, 32 kHz	✓	12 ch	3	5/5/5	5/2	2/2	2	2	Device	-	-	✓	✓	✓	\$1.76	POR, BOR, LVD, WDT	VTLA (TL)
	PIC32MX120F032C	R	25	PIC32	32 + 3	8	AN1095 [‡]	4/0	2.3V-3.6V	50	8 MHz, 32 kHz	✓	12 ch	3	5/5/5	5/2	2/2	2	2	-	-	-	✓	✓	✓	\$1.85	POR, BOR, LVD, WDT	VTLA (TL)
	PIC32MX220F032C	R	25	PIC32	32 + 3	8	AN1095 [‡]	4/2	2.3V-3.6V	50	8 MHz, 32 kHz	✓	12 ch	3	5/5/5	5/2	2/2	2	2	Device	-	-	✓	✓	✓	\$1.96	POR, BOR, LVD, WDT	VTLA (TL)
	PIC32MX130F064C	R	25	PIC32	64 + 3	16	AN1095 [‡]	4/0	2.3V-3.6V	40	8 MHz, 32 kHz	✓	12 ch	3	5/5/5	5/2	2/2	2	2	-	-	-	✓	✓	✓	\$2.17	POR, BOR, LVD, WDT	VTLA (TL)
	PIC32MX150F128C	R	25	PIC32	128 + 3	32	AN1095 [‡]	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)
	PIC32MX230F064C	R	25	PIC32	64 + 3	16	AN1095 [‡]	4/2	2.3V-3.6V	40	8 MHz, 32 kHz	✓	12 ch	3	5/5/5	5/2	2/2	2	2	OTG	-	-	✓	✓	✓	\$2.45	POR, BOR, LVD, WDT	VTLA (TL)
	PIC32MX250F128C	R	25	PIC32	128 + 3	32	AN1095 [‡]	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)
	PIC32MX110F016D	R	34	PIC32	16 + 3	4	AN1095 [‡]	4/0	2.3V-3.6V	40	8 MHz, 32 kHz	✓	13 ch	3	5/5/5	5/2	2/2	2	2	-	-	-	✓	✓	✓	\$1.75	POR, BOR, LVD, WDT	TQFP (PT), QFN (ML), VTLA (TL)
	PIC32MX210F016D	R	34	PIC32	16 + 3	4	AN1095 [‡]	4/2	2.3V-3.6V	40	8 MHz, 32 kHz	✓	13 ch	3	5/5/5	5/2	2/2	2	2	Device	-	-	✓	✓	✓	\$1.85	POR, BOR, LVD, WDT	TQFP (PT), QFN (ML), VTLA (TL)
44-Pin	PIC32MX120F032D	R	34	PIC32	32 + 3	8	AN1095 [‡]	4/0	2.3V-3.6V	50	8 MHz, 32 kHz	✓	13 ch	3	5/5/5	5/2	2/2	2	2	-	-	-	✓	✓	✓	\$1.95	POR, BOR, LVD, WDT	TQFP (PT), QFN (ML), VTLA (TL)
	PIC32MX220F032D	R	34	PIC32	32 + 3	8	AN1095 [‡]	4/2	2.3V-3.6V	50	8 MHz, 32 kHz	✓	13 ch	3	5/5/5	5/2	2/2	2	2	Device	-	-	✓	✓	✓	\$2.04	POR, BOR, LVD, WDT	TQFP (PT), QFN (ML), VTLA (TL)
	PIC32MX130F064D	R	34	PIC32	64 + 3	16	AN1095 [‡]	4/0	2.3V-3.6V	40	8 MHz, 32 kHz	✓	13 ch	3	5/5/5	5/2	2/2	2	2	-	-	-	✓	✓	✓	\$2.24	POR, BOR, LVD, WDT	TQFP (PT), QFN (ML), VTLA (TL)
	PIC32MX150F128D	R	34	PIC32	128 + 3	32	AN1095 [‡]	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)
	PIC32MX230F064D	R	34	PIC32	64 + 3	16	AN1095 [‡]	4/2	2.3V-3.6V	40	8 MHz, 32 kHz	✓	13 ch	3	5/5/5	5/2	2/2	2	2	OTG	-	-	✓	✓	✓	\$2.52	POR, BOR, LVD, WDT	TQFP (PT), QFN (ML), VTLA (TL)
	PIC32MX250F128D	R	34	PIC32	128 + 3	32	AN1095 [‡]	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)
	PIC32MX330F064H	R	53	PIC32	64 + 12	16	AN1095 [‡]	4/0	2.3V-3.6V	80	8 MHz, 32 kHz	✓	28 ch	2	5/5/5	5/2	2/2	2	4	-	-	-	✓	✓	✓	\$2.62	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	PIC32MX430F064H	R	51	PIC32	64 + 12	16	AN1095 [‡]	4/2	2.3V-3.6V	80	8 MHz, 32 kHz	✓	28 ch	2	5/5/5	5/2	2/2	2	4	OTG	-	-	✓	✓	✓	\$3.04	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	PIC32MX320F032H	R	51	PIC32	32 + 12	8	AN1095 [‡]	0/0	2.3V-3.6V	40	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	2/0	2	2	-	-	-	✓	✓	-	\$3.09	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
64-Pin	PIC32MX350F128H	R	53	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	4	-	-	-	✓	✓	✓	\$3.30	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	PIC32MX534F064H	R	51	PIC32	64 + 12	16	AN1095 [‡]	4/4	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	3/0	4	6	OTG	-	1	✓	✓	-	\$3.30	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	PIC32MX320F064H	R	51	PIC32	64 + 12	16	AN1095 [‡]	0/0	2.3V-3.6V	40	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	2/0	2	2	-	-	-	✓	✓	-	\$3.36	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	PIC32MX420F032H	R	51	PIC32	32 + 12	8	AN1095 [‡]	0/2	2.3V-3.6V	40	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	2/0	2	2	OTG	-	-	✓	✓	-	\$3.36	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	PIC32MX450F128H	R	51	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	4	OTG	-	-	✓	✓	✓	\$3.44	POR, BOR, LVD, WDT	QFN (MR), TQFP (PT,PF)
	PIC32MX664F064H	R	51	PIC32	64 + 12	32	AN1095 [‡]	4/4	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	3/0	4	6	OTG	-	1	✓	✓	-	\$3.49	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	PIC32MX350F256H	R	53	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	4	-	-	-	✓	✓	✓	\$3.51	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	PIC32MX320F256H	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)
	PIC32MX450F256H	R	51	PIC32	256 + 12	64	AN1095 [‡]	4/2	2.3V-3.6V	80	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)
64-Pin	PIC32MX564F128H	R	51	PIC32	128 + 12	32	AN1095 [‡]	4/4	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	3/0	4	6	OTG	-	1	✓	✓	-	\$3.70	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	PIC32MX664F128H	R	51	PIC32	64 + 12	32	AN1095 [‡]	4/4	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	3/0	4	6	OTG	-	1	✓	✓	-	\$3.70	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	PIC32MX664F064H	R	51	PIC32	64 + 12	32	AN109																					

32-BIT PIC32MX MICROCONTROLLERS																											
Product	Released (R) Not Released (NR)	I/O Pins	Core	Memory			DMA Channels General/Dedicated	Voltage Range	Maximum Speed (MHz)	Operating Speed		Charge Time Measurement Unit	Analog		IC/O/PWM	Communication				Monitors		System Mgmt. Features	Packages (Designator)				
				Flash KB + Boot Flash	Data RAM (KB)	EEPROM				Internal Oscillator	ADC 10-bit 1,000 usps	Comparators	SPI/I ^S	I ^C ™	UARTs	FS USB	Ethernet	CAN	PMP	RTCC	PPS	5 ku Pricing [†]					
64-Pin (Cont.)	PIC32MX440F512H	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	OTG	-	-	✓	✓	\$4.28	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)	
	PIC32MX370F512H	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)
	PIC32MX470F512H	R	51	PIC32	512 + 12	128	AN1095 [‡]	4/2	2.3V-3.6V	80	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)
	PIC32MX575F256H	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	✓	✓	\$4.56	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	PIC32MX675F256H	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)
	PIC32MX575F512H	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)
	PIC32MX775F256H	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)
	PIC32MX675F512H	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)
	PIC32MX775F512H	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)
	PIC32MX695F512H	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)
	PIC32MX795F512H	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)
100-Pin	PIC32MX330F064L	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	-	-	-	✓	✓	\$3.04	POR, BOR, LVD, WDT	TQFP (PT, PF), VTLA (TL)
	PIC32MX430F064L	R	83	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	-	-	✓	✓	\$3.18	POR, BOR, LVD, WDT	TQFP (PT, PF), VTLA (TL)
	PIC32MX534F064L	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	✓	✓	\$3.71	POR, BOR, LVD, WDT	TQFP (PT, PF), XBGA (BG)
	PIC32MX350F128L	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	-	-	-	✓	✓	\$3.72	POR, BOR, LVD, WDT	TQFP (PT, PF), VTLA (TL)
	PIC32MX450F128L	R	83	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	-	-	✓	✓	\$3.86	POR, BOR, LVD, WDT	TQFP (PT, PF), VTLA (TL)
	PIC32MX564F064L	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	✓	✓	\$3.89	POR, BOR, LVD, WDT	TQFP (PT, PF), XBGA (BG)
	PIC32MX350F256L	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)
	PIC32MX450F256L	R	83	PIC32	256 + 12	64	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	-	-	✓	✓	\$4.07	POR, BOR, LVD, WDT	TQFP (PT, PF), VTLA (TL)
	PIC32MX564F128L	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	✓	✓	\$4.09	POR, BOR, LVD, WDT	TQFP (PT, PF), XBGA (BG)
	PIC32MX664F064L	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	-	✓	✓	\$4.09	POR, BOR, LVD, WDT	TQFP (PT, PF), XBGA (BG)
	PIC32MX320F128L	R	85	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	-	-	-	✓	✓	\$4.21	POR, BOR, LVD, WDT	TQFP (PT), XBGA (BG)
	PIC32MX340F128L	R	85	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	-	-	-	✓	✓	\$4.21	POR, BOR, LVD, WDT	TQFP (PT), XBGA (BG)
	PIC32MX664F128L	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	-	✓	✓	\$4.30	POR, BOR, LVD, WDT	TQFP (PT, PF), XBGA (BG)
	PIC32MX360F256L	R	85	PIC32	256 + 12	32	AN1095 [‡]	4/0	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	10/100	-	✓	✓	\$4.31	POR, BOR, LVD, WDT	TQFP (PT), XBGA (BG)
	PIC32MX764F128L	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	✓	✓	\$4.40	POR, BOR, LVD, WDT	TQFP (PT, PF), XBGA (BG)
	PIC32MX360F512L	R	85	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	-	-	-	✓	✓	\$4.47	POR, BOR, LVD, WDT	TQFP (PT), XBGA (BG)
	PIC32MX440F128L	R	85	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	OTG	-	-	✓	✓	\$4.47	POR, BOR, LVD, WDT	TQFP (PT), XBGA (BG)
	PIC32MX460F256L	R	85	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	-	-	✓	✓	\$4.55	POR, BOR, LVD, WDT	TQFP (PT), XBGA (BG)
	PIC32MX460F512L	R	85	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	-	-	✓	✓	\$4.69	POR, BOR, LVD, WDT	TQFP (PT), XBGA (BG)
	PIC32MX370F512L	R	83	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	5	-	-	-	✓	✓	\$4.75	POR, BOR, LVD, WDT	TQFP (PT, PF), VTLA (TL)
	PIC32MX470F512L	R	83	PIC32	512 + 12	128	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	-	-	✓	✓	\$4.89	POR, BOR, LVD, WDT	TQFP (PT, PF), VTLA (TL)
	PIC32MX575F256L	R	85	PIC32	256 + 12	64	AN1095 [‡]	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	✓	✓	\$5.43	POR, BOR, LVD, WDT	TQFP (PT, PF), XBGA (BG)
	PIC32MX675F256L	R	85	PIC32	256 + 12	64	AN1095 [‡]	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 [‡]	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 [‡]	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)
	PIC32MX675F512L	R	85	PIC32	512 + 12	64	AN1095 [‡]	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	2	✓	✓	\$6.13	POR, BOR, LVD, WDT	TQFP (PT, PF), XBGA (BG)
	PIC32MX695F512L	R	85	PIC32	512 + 12	128	AN1095 [‡]	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	-	✓	✓	\$6.36	POR, BOR, LVD, WDT	TQFP (PT, PF), XBGA (BG)
	PIC32MX695F512L	R	85	PIC32	512 + 12	128	AN1095 [‡]	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	-	✓	✓	\$6.61	POR, BOR, LVD, WDT	TQFP (PT, PF), XBGA (BG)
	PIC32MX795F512L																										

32-BIT PIC32MZ MICROCONTROLLERS

Product		Released (R) Not Released (NR)		Memory				DMA Channels General/Dedicated		Operating Speed		Analog		Communication				Monitors		System Mgmt. Features		Packages (Designator)							
		I/O Pins	Core	Flash kB + Boot Flash	Data RAM (kB)	EEPROM	Maximum Speed (MHz)	Internal Oscillator	ADC 12-bit 28 Msps	Comparators	IC/OC/PWM	Timers 16/32-bit	SPI/I ² S	I ² C™	UARTs	HS USB	Ethernet	CAN	SQL	Crypto Engine	EBI	PMP	RTCC	PPS					
64-Pin	PIC32MZ1024ECG064	NR	46	PIC32	1024 +160	512	AN1095 ⁽¹⁾	8/12	2.2-3.6V	200	8 MHz, 32 kHz	24 ch	2	9/9/9	9/4	4	4	6	OTG	10/100	-	✓	-	✓	call for pricing	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)		
	PIC32MZ1024ECH064	NR	46	PIC32	1024 +160	512	AN1095 ⁽¹⁾	8/16	2.2-3.6V	200	8 MHz, 32 kHz	24 ch	2	9/9/9	9/4	4	4	6	OTG	10/100	2	✓	-	-	✓	✓	call for pricing	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	PIC32MZ1024ECM064	NR	46	PIC32	1024 +160	512	AN1095 ⁽¹⁾	8/18	2.2-3.6V	200	8 MHz, 32 kHz	24 ch	2	9/9/9	9/4	4	4	6	OTG	10/100	2	✓	✓	-	✓	✓	call for pricing	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	PIC32MZ2048ECG064	NR	46	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/12	2.2-3.6V	200	8 MHz, 32 kHz	24 ch	2	9/9/9	9/4	4	4	6	OTG	10/100	-	✓	-	-	✓	✓	call for pricing	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	PIC32MZ2048ECH064	NR	46	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/16	2.2-3.6V	200	8 MHz, 32 kHz	24 ch	2	9/9/9	9/4	4	4	6	OTG	10/100	2	✓	-	-	✓	✓	call for pricing	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	PIC32MZ2048ECM064	NR	46	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/18	2.2-3.6V	200	8 MHz, 32 kHz	24 ch	2	9/9/9	9/4	4	4	6	OTG	10/100	2	✓	✓	-	✓	✓	call for pricing	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
100-Pin	PIC32MZ1024ECG100	NR	78	PIC32	1024 +160	512	AN1095 ⁽¹⁾	8/12	2.2-3.6V	200	8 MHz, 32 kHz	40 ch	2	9/9/9	9/4	6	5	6	OTG	10/100	-	✓	-	✓	✓	✓	call for pricing	POR, BOR, LVD, WDT	TQFP (PT, PF)
	PIC32MZ1024ECH100	NR	78	PIC32	1024 +160	512	AN1095 ⁽¹⁾	8/16	2.2-3.6V	200	8 MHz, 32 kHz	40 ch	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	-	✓	✓	✓	call for pricing	POR, BOR, LVD, WDT	TQFP (PT, PF)
	PIC32MZ1024ECM100	NR	78	PIC32	1024 +160	512	AN1095 ⁽¹⁾	8/18	2.2-3.6V	200	8 MHz, 32 kHz	40 ch	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	✓	✓	✓	✓	call for pricing	POR, BOR, LVD, WDT	TQFP (PT, PF)
	PIC32MZ2048ECG100	NR	78	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/12	2.2-3.6V	200	8 MHz, 32 kHz	40 ch	2	9/9/9	9/4	6	5	6	OTG	10/100	-	✓	-	✓	✓	✓	call for pricing	POR, BOR, LVD, WDT	TQFP (PT, PF)
	PIC32MZ2048ECH100	NR	78	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/16	2.2-3.6V	200	8 MHz, 32 kHz	40 ch	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	-	✓	✓	✓	call for pricing	POR, BOR, LVD, WDT	TQFP (PT, PF)
	PIC32MZ2048ECM100	NR	78	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/18	2.2-3.6V	200	8 MHz, 32 kHz	40 ch	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	✓	✓	✓	✓	call for pricing	POR, BOR, LVD, WDT	TQFP (PT, PF)
124-Pin	PIC32MZ1024ECG124	NR	97	PIC32	1024 +160	512	AN1095 ⁽¹⁾	8/12	2.2-3.6V	200	8 MHz, 32 kHz	48 ch	2	9/9/9	9/4	6	5	6	OTG	10/100	-	✓	-	✓	✓	✓	call for pricing	POR, BOR, LVD, WDT	VTLA (TL)
	PIC32MZ1024ECH124	NR	97	PIC32	1024 +160	512	AN1095 ⁽¹⁾	8/16	2.2-3.6V	200	8 MHz, 32 kHz	48 ch	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	-	✓	✓	✓	call for pricing	POR, BOR, LVD, WDT	VTLA (TL)
	PIC32MZ1024ECM124	NR	97	PIC32	1024 +160	512	AN1095 ⁽¹⁾	8/18	2.2-3.6V	200	8 MHz, 32 kHz	48 ch	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	✓	✓	✓	✓	call for pricing	POR, BOR, LVD, WDT	VTLA (TL)
	PIC32MZ2048ECG124	NR	97	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/12	2.2-3.6V	200	8 MHz, 32 kHz	48 ch	2	9/9/9	9/4	6	5	6	OTG	10/100	-	✓	-	✓	✓	✓	call for pricing	POR, BOR, LVD, WDT	VTLA (TL)
	PIC32MZ2048ECH124	NR	97	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/16	2.2-3.6V	200	8 MHz, 32 kHz	48 ch	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	-	✓	✓	✓	call for pricing	POR, BOR, LVD, WDT	VTLA (TL)
	PIC32MZ2048ECM124	NR	97	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/18	2.2-3.6V	200	8 MHz, 32 kHz	48 ch	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	✓	✓	✓	✓	call for pricing	POR, BOR, LVD, WDT	VTLA (TL)
144-Pin	PIC32MZ1024ECG144	NR	120	PIC32	1024 +160	512	AN1095 ⁽¹⁾	8/12	2.2-3.6V	200	8 MHz, 32 kHz	48 ch	2	9/9/9	9/4	6	5	6	OTG	10/100	-	✓	-	✓	✓	✓	call for pricing	POR, BOR, LVD, WDT	TQFP (PH), LQFP (PL)
	PIC32MZ1024ECH144	NR	120	PIC32	1024 +160	512	AN1095 ⁽¹⁾	8/16	2.2-3.6V	200	8 MHz, 32 kHz	48 ch	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	-	✓	✓	✓	call for pricing	POR, BOR, LVD, WDT	TQFP (PH), LQFP (PL)
	PIC32MZ1024ECM144	NR	120	PIC32	1024 +160	512	AN1095 ⁽¹⁾	8/18	2.2-3.6V	200	8 MHz, 32 kHz	48 ch	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	✓	✓	✓	✓	call for pricing	POR, BOR, LVD, WDT	TQFP (PH), LQFP (PL)
	PIC32MZ2048ECG144	NR	120	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/12	2.2-3.6V	200	8 MHz, 32 kHz	48 ch	2	9/9/9	9/4	6	5	6	OTG	10/100	-	✓	-	✓	✓	✓	call for pricing	POR, BOR, LVD, WDT	TQFP (PH), LQFP (PL)
	PIC32MZ2048ECH144	NR	120	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/16	2.2-3.6V	200	8 MHz, 32 kHz	48 ch	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	-	✓	✓	✓	call for pricing	POR, BOR, LVD, WDT	TQFP (PH), LQFP (PL)
	PIC32MZ2048ECM144	NR	120	PIC32	2048 + 160	512	AN1095 ⁽¹⁾	8/18	2.2-3.6V	200	8 MHz, 32 kHz	48 ch	2	9/9/9	9/4	6	5	6	OTG	10/100	2	✓	✓	✓	✓	✓	call for pricing	POR, BOR, LVD, WDT	TQFP (PH), LQFP (PL)

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

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
MCP98243	SMBus/I ² C Temperature Sensor with EEPROM		1	0.5/3.0	-40 to +125	+3.0 to +3.6	200	1	-	-	8-pin DFN, 8-pin TDFN, 8-pin TSSOP, 8-pin UDFN
MCP9843	SMBus/I ² C JEDEC Temperature Sensor		1	0.5/3.0	-40 to +125	+3.0 to +3.6	200	1	-	-	8-pin DFN, 8-pin TDFN, 8-pin TSSOP
TCN75A	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: 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/PWM Controllers												
Product	Input Voltage Range (V)	Output Voltage (V)	Operating Temp. Range (°C)	Control Scheme	Switching Frequency (kHz)	Typical Active Current (µA)	Output Current (mA)	Features				Packages
TC1303/04/13	2.7 to 5.5	DC/DC: 0.8 to 4.5 LDO: 1.5 to 3.3	-40 to +85	PFM/PWM	2000	65/600	DC/DC: 500 mA LDO: 300 mA	Synchronous Buck Regulator, LDO w/Power Good with PFM/PWM auto-switching, Power Good output or Power Sequencing				MSOP, DFN
MCP1602/3	2.7 to 5.5	0.8 to 4.5 / 4.0	-40 to +85	PFM/PWM	2000	35/45	500	Synchronous Buck Regulator PFM, PWM auto-switching, UVLO, Soft-start, Power Good indicator, Over-temperature/current protection				MSOP, DFN, TSOT
MCP19035	4.5 to 30	90% of V _{IN}	-40 to +125	PWM	300/600	6000	Ext	Voltage mode PWM synchronous buck controller. Integrates LDO, error amplifier, current and voltage sense, UVLO/OVLO/MOSFET Driver				DFN
MCP1640/B/C/D	0.65 to 6	2.0 to 5.5	-40 to +85	PWM or PWM/PFM	500	19	350	Integrated synchronous boost regulator, -0.65V start-up voltage, Soft-start, True load disconnect or input-to-output bypass option				SOT-23, DFN
MCP16251/2	0.82 to 5.5	1.8 to 5.5	-40 to +85	PWM/PFM	500	4	250	True load disconnect, Shutdown, Input to output bypass				SOT-23, DFN
MCP1650/1/2/3	2.7 to 5.5	2.5 to ext. tx limited	-40 to +125	Constant Frequency	750	120	560/440	Step-up DC/DC Controller with shutdown control, Low battery detect, Power Good indicator, UVLO, Soft start				MSOP
MCP16301	4.0 to 30	2.0 to 15	-40 to +85	PWM	500	2000	600	Integrated N-channel, UVLO, Soft-start, Over-temperature protection				SOT-23
MCP16311	4.4 to 30	2 to 24	-40 to +125	PFM/PFM	500	44	1000	Synchronous buck regulator, PRM/PWM operation, Enable function				MSOP, TDFN
MCP16312	4.4 to 30	2 to 24	-40 to +125	PWM	500	3800	1000	Synchronous buck regulator, PWM operation, Enable function				MSOP, TDFN
MCP1632	3 to 5.5	Adj	-40 to +125	PWM	300/600	5	Ext	Voltage-or-current mode PWM controller with integrated low-side MOSFET driver, Adjustable V _{REF} and soft start with UVLO, Short circuit and overtemperature protection				MSOP, DFN
MCP16321	6 to 24	0.9 to 5	-40 to +125	PWM/PFM	1000	2300	1000	Integrated switches, Internal compensation, Peak current mode control, Soft-start, UVLO, Power Good pin				QFN
MCP16322	6 to 24	0.9 to 5	-40 to +125	PWM/PFM	1000	2300	2000	Integrated switches, Internal compensation, Peak current mode control, Soft-start, UVLO, Power Good pin				QFN
MCP16323	6 to 18	0.9 to 5	-40 to +125	PWM/PFM	1000	2300	3000	Integrated switches, Internal compensation, Peak current mode control, Soft-start, UVLO, Power Good pin				QFN
MCP1643	0.65 to 5	1.8 to 5	-40 to +85	PWM	1000	-	550	LED boost driver, 0.65V start-up, 1.6A switch, Enable function				MSOP, 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	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	5 x 5 QFN

POWER MANAGEMENT: Power MOSFETs

Product	Vds (V)	Configuration	Polarity	R _{DS(on)} @ 4.5V (mΩ, Max.)	R _{DS(on)} @ 10V (mΩ, Max.)	Q _G @ 4.5V (nC, Max.)	I _D (A, Max. @ 25°C, Tcase)	V _{SS} (th) (V, Min.)	Q _{GD} (nC, Typ.)	R _G (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: Linear Regulators

Product	Max. Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Typical Quiescent Current (µA)	Typical Dropout Voltage @ Max. I _{out} (mV)	PSRR (typical, dV)	Typical Output Voltage Accuracy (%)	Features	Packages
TC1017	6.0	1.8 to 4.0	150	53	285	58	0.5	Shutdown	SOT-23 and SC-70
TC1014/1015/1185	6.0	1.8 to 5.0	50/100/150	50	85/180/270	64	0.5	Reference bypass	SOT-23
TC1054/1055/1186	6.5	1.8 to 5.0	50/100/150	50	85/180/270	64	0.5	Error Output	SOT-23
TC1070/1071/1187	6.0	1.2 to 5.5	50/100/150	50	85/180/270	64	0.5	Adjustable output	SOT-23
TC1262/4	6.0	1.8 to 5.0	500/800	80	350/450	64	0.5	Low noise, fast transient response	SOT-223
MCP1700	6.0	1.2 to 5.0	250	1.6	178	44	0.4	Very low I _Q , small outline package options	SOT-23, SOT-89, TO-92, 2 x 2 DFN
MCP1710	5.5	1.2 to 4.2	200	0.02	450	22		Extremely low I _Q , small outline package, shutdown	2 x 2 VDFN
MCP1702	13.2	1.2 to 5.5	250	2.0	625	44	0.4	Very low I _Q	SOT-23, SOT-89, TO-92
MCP1703A	16.0	1.2 to 5.5	250	2.0	625	35	0.4	Very low I _Q , low ground pin current in dropout	SOT-23A, SOT-89, SOT-223, 2 x 3 DFN
MCP1725/6/7	6.0	0.8 to 5.0	500/1000/1500	120/140/120	210/220/330	60/54/60	0.5/0.4/0.5	Fast transient response, shutdown, adjustable delay powergood, adjustable output version	SOIC-8, 2 x 3 DFN, 3 x 3 DFN, 3 x 3 DFN
MCP1754/5	16.0	1.8 to 5.5	150/300	56/68	300	72/80	0.2/0.85	Powergood, shutdown	SOT-23A, SOT-89, SOT-223, 2 x 3 DFN
MCP1754S/5S	16.0	1.8 to 5.5	150/300	56/68	300	72/80	0.2/0.85		SOT-23, SOT-223, 2 x 3 DFN
MCP1790	30.0	3.0, 3.3, 5.0	70	70	700	90	0.2	Load dump protected, fast transient response	SOT-223
MCP1791	30.0	3.0, 3.3, 5.0	70	70	700	90	0.2	Load dump protected, fast transient response, shutdown, powergood	SOT-223
MCP1804	28.0	1.8 to 18	150	50	260 at 20 mA	50	2	Shutdown version	SOT-23, SOT-89, SOT-223
MCP1824/5/6/7	6.0	0.8 to 5.0	300/500/1000/1500	120	200/210/250/330	55/60/60/60	0.4/0.5/0.5/0.5	Fast transient response, shutdown, powergood	SOT-223
MCP1824S/5S/6S/7S	6.0	0.8 to 5.0	300/500/1000/1500	120	200/210/250/330	55/60/60/60	0.4/0.5/0.5/0.5	Fast transient response	SOT-223

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 (I _S , floating output, µA, 25°C)	Output Resistance (Ω, at typical output current, 25°C)	Power Conversion Efficiency (%)	Features	Packages
TC7660S	Inverting or doubling	1.5 to 12	-Vin or 2 × Vin	20	10 or 45	80	60	98% at 1 mA	Boost pin increases switching frequency	SOIC, PDIP
TC7662A	Inverting or doubling	3 to 18	-Vin or 2 × Vin	40	12	190	50	97% at 7.5 mA	No low-voltage terminal required	PDIP
TC7662B	Inverting or doubling	1.5 to 15	-Vin or 2 × Vin	20	10 or 35	80	65	96% at 1 mA	Boost pin increases switching frequency	SOIC, 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	SOIC, PDIP
TC1240A	Doubling	2.5 to 5	2 × Vin	20	80	550	12	94% at 5 mA	Shutdown	SOT-23
TC682	Inverted doubling	2.4 to 5.5	-2 × Vin	10	12	185	140	92% at 2.5 mA		SOIC, PDIP
MCP1252/3	Regulated	2.0 to 5.5	3.3, 5.0, or adjustable	120	650/1000	60	N/A	81% at 10 mA	Shutdown, power good, regulated output, adjustable version	MSOP
MCP1256/7/8/9	Regulated	1.8 to 3.6	3.3	100	650	2300	N/A	85% at 50 mA	Soft start, shutdown, options for power good, brown out warning, sleep and bypass modes	MSOP, DFN

POWER MANAGEMENT: CPU/System Supervisors

Product	Description	Operating Temp. Range (°C)	Features	Packages
MCP11(1/2) TC (1/2/3/4)	System Voltage Detectors (No Reset Delay)	-40 to +125 -40 to +85	Wide V _{cc} input range, Wide detection range (custom options available), Low current, CMOS/Push-Pull active low reset options	5-pin SOT-23, 3-pin TO-92, 3-pin SOT-23A, 3-pin SOT-89, 3-pin SC70
MCP809, MCP100, MCP130, MCP120 MCP13XX, TC1270A and more	System Voltage Supervisors (Available Reset Delays)	-40 to +125 -40 to +85	Wide detection range (custom options available), Low current, Push-Pull/Open Drain, Active high/low, Watchdog, Manual reset, Dual output options, Multiple reset delay options	8-pin SOIC (150 mil), 5-pin SOT-23, 4-pin SOT-143, 3-pin TO-92, 3-pin SOT-23, 5-pin SC70

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 Time (Tr, ns)	Fall Time (Tf, ns)	Capacitive Load Drive	Features	Packages
MCP1401/2	Low Side Single	Inverting/Non-inverting	0.5/0.5	18	12/10	35/35	19	15	470 pF in 19 ns	Small footprint	SOT-23
MCP1415/16	Low Side Single	Inverting/Non-inverting	1.5/1.5	18	6/4	41/48	20	20	470 pF in 13 ns	Small footprint	SOT-23
TC4426A/7A/8A	Low Side Dual	Inverting/Non-inverting/Complementary	1.5/1.5	18	7/7	30/30	25	25	1000 pF in 25 ns		SOIC, MSOP, PDIP, DFN
MCP14E6/7/8	Low Side Dual	Inverting/Non-inverting/Complementary	2.0/2.0	18	5/5	45/45	12	15	1000 pF in 15 ns	Enable pin	SOIC, PDIP, DFN
TC4423A/4A/5A	Low Side Dual	Inverting/Non-inverting/Complementary	3.0/3.0	18	2.2/2.8	40/41	12	12	1800 pF in 12 ns		SOIC, PDIP, DFN
MCP14E9/10/11	Low Side Dual	Inverting/Non-inverting/Complementary	3.0/3.0	18	4/4	45/45	14	17	1800 pF in 17 ns	Enable pin	SOIC, PDIP, DFN
MCP14E3/4/5	Low Side Dual	Inverting/Non-inverting/Complementary	4.0/4.0	18	2.5/2.5	46/50	15	18	2200 pF in 15 ns	Enable pin	SOIC, PDIP, DFN
MCP1403/4/5	Low Side Dual	Inverting/Non-inverting/Complementary	4.5/4.5	18	2.2/2.8	40/40	15	18	2200 pF in 15 ns		SOIC, PDIP, DFN
MCP1406/7	Low Side Single	Inverting/Non-inverting	6.0/6.0	18	2.1/1.5	40/40	20	20	2500 pF in 20 ns		SOIC, PDIP, DFN
TC4421A/2A	Low Side Single	Inverting/Non-inverting	9.0/9.0	18	1.25/0.8	38/42	28	26	4700 pF in 15 ns		SOIC, PDIP, DFN
TC4451/2	Low Side Single	Inverting/Non-inverting	12.0/12.0	18	1.0/0.9	44/44	30	32	10,000 pF in 21 ns		SOIC, PDIP, DFN
TC4431/2	High Side Single	Inverting/Non-inverting	3.0/1.5	30	7/7	62/78	25	33	1000 pF in 15ns	30V, high side driver	SOIC, PDIP
MCP14628	Sync. Buck Dual	Synchronous Buck (high/low)	2.0/2.0 (3.5 low side)	5.5 (36V boot pin)	1/1 (0.5 on low side)	15-22	10	10	3300 pF in 10 ns	Continuous or discontinuous operation	SOIC, DFN
MCP14700	Sync. Buck Dual	Synchronous Buck (high/low)	2.0/2.0 (3.5 low side)	5.5 (36V boot pin)	1/1 (0.5 on low side)	15-22	10	10	3300 pF in 10 ns	Allows external dead time control	SOIC, DFN

POWER MANAGEMENT: Synchronous Buck High-Side Driver							
Product	Configuration	Operating Temp Range (°C)	Peak Output Current (A)	Output Resistance (Max. @ 25°C)	Max Supply Voltage (V)	Input/Output Delay (ns)	Packages
MCP14700/14628	Dual input/Single input	-40 to +85	2	2.5/2.5	5 (Vdd), 36 (Boot Pin)	18/20	SOIC, DFN

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

LINEAR: Op Amps												
Product	# per Package	GBWP (MHz)	Iq Typical (µA)	Vos Max (mV)	Operating Voltage (V)	Packages	Product	# per Package	GBWP (MHz)	Iq Typical (µA)	Vos Max (mV)	
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	MCP6V26/7/8	1/2/1	2	620	0.002	2.3 to 5.5
MCP651/15/2/3/4/5/9	1/1/2/1/4/2/4	50	6000	0.2	2.5 to 5.5	SOIC, MSOP, DFN, TSSOP, QFN, SOT	MCP6071/2/4	1/2/4	1.2	110	0.15	1.8 to 6.0
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	MCP6H01/2/4	1/2/4	1.2	135	4.5	3.5 to 16
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	MCP6001/2/4	1/2/4	1	100	4.5	1.8 to 6.0
MCP6H91/2/4	1/2/4	10	2000	4	3.5 to 12.0	DFN, SOIC, TSSOP	MCP6401/2/4	1/2/4	1	45	4.5	1.8 to 6.0
MCP6021/2/3/4	1/2/1/4	10	1000	0.5	2.5 to 5.5	PDIP, SOIC, MSOP, TSSOP, SOT	MCP6061/2/4	1/2/4	0.73	60	0.15	1.8 to 6.0
MCP6291/2/3/4/5	1/2/1/4/2	10	1000	3	2.4 to 6.0	PDIP, SOIC, MSOP, TSSOP, SOT	MCP6241/2/4	1/2/4	0.55	50	5	1.8 to 5.5
MCP6491/2/4	1/2/4	7.5	530	1.5	2.4 to 5.5	SOT, SC70, MSOP, TDFN, SOIC, TSSOP	MCP6051/2/4	1/2/4	0.385	30	0.15	1.8 to 6.0
MCP6H81/2/4	1/2/4	5.5	700	4	3.5 to 12.0	DFN, SOIC, TSSOP	MCP6V31	1	0.3	23	0.008	1.8 to 5.5
MCP6281/2/3/4/5	1/2/1/4/2	5	445	3	2.2 to 6.0	PDIP, SOIC, MSOP, TSSOP, SOT	MCP6231/2/4	1/2/4	0.3	20	5	1.8 to 6.0
MCP6481/2/4	1/2/4	4	240	1.5	2.2 to 5.5	SOT, SC70, MSOP, TDFN, SOIC, TSSOP	MCP616/7/8/9	1/2/1/4	0.19	19	0.15	2.3 to 5.5
MCP6286	1	3.5	540	1.5	2.2 to 5.5	SOT	MCP606/7/8/9	1/2/1/4	0.155	19	0.25	2.5 to 6.0
MCP601/2/3/4	1/2/1/4	2.8	230	2	2.7 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
MCP6H71/2/4	1/2/4	2.7	480	4	3.5 to 12.0	DFN, SOIC, TSSOP	MCP6421/2/4	1/2/4	0.009	4.4	1	1.8 to 5.5
MCP6271/2/3/4/5	1/2/1/4/2	2	170	3	2.0 to 6.0	PDIP, SOIC, MSOP, TSSOP, SOT	MCP6V11	1	0.08	7.5	0.008	1.6 to 5.5
MCP6471/2/4	1/2/4	2	100	1.5	2 to 5.5	SOT, SC70, MSOP, TDFN, SOIC, TSSOP	MCP6041/2/3/4	1/2/1/4	0.014	0.6	3	1.4 to 6.0
MCP6V01/2/3	1/2/1	1.3	300	0.002	1.8 to 5.5	SOIC, DFN, TDFN	MCP6031/2/3/4	1/2/1/4	0.01	0.9	0.15	1.8 to 5.5
MCP6V06/7/8	1/2/1	1.3	300	0.003	1.8 to 5.5	SOIC, DFN, TDFN	MCP6441/2/4	1/2/4	0.009	0.45	4.5	1.4 to 6.0

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

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	Voltage Reference	Output Settling Time (μs)	DNL (±LSB)	Typical Operating Current (μA)	Temperature Range (°C)	Packages
MCP47DA1	6	1	I ² C™	V _{DD}	6	0.25	130	-40 to +125	SOT-23
MCP4706/16/26	8/10/12	1	I ² C	Ext	6	0.05/0.188/0.75	210	-40 to +125	SOT-23
MCP4725	12	1	I ² C	V _{DD}	6	0.75	175	-40 to +125	SOT-23
MCP4728	12	4	I ² C	Int	6	0.75	250	-40 to +125	MSOP
MCP4801/11/21	8/10/12	1	SPI	Int	4.5	0.5/0.5/0.75	330	-40 to +125	PDIP, SOIC, MSOP, 2x3 DFN
MCP4802/12/22	8/10/12	2	SPI	Int	4.5	0.5/0.5/0.75	415	-40 to +125	MSOP, PDIP, SOIC
MCP4901/11/21	8/10/12	1	SPI	Ext	4.5	0.5/0.5/0.75	175	-40 to +125	PDIP, SOIC, MSOP, 2x3 DFN
MCP4902/12/22	8/10/12	2	SPI	Ext	4.5	0.5/0.5/0.75	350	-40 to +125	PDIP, SOIC, TSSOP
TC1320/1	8/10	1	SMBus	Ext	10	0.8/2	350	-40 to +85	MSOP, SOIC

MIXED SIGNAL: Energy Measurement ICs

Product	Dynamic Range	Typical Accuracy	ADC Channels	ADC Resolution	SINAD	Gain Selection	Output Type	Typical Supply Current (mA)	Analog V _{DD} (V)	Digital V _{DD} (V)	Temperature Range (°C)	Packages
MCP3911	–	–	2	24-bit	94.5 dB	Up to 32	SPI	1.7	2.7 to 3.6	2.7 to 3.6	-40 to +125	SSOP, QFN
MCP3913/14	10000:1	0.1%	6/8	24-bit	94.5 dB	Up to 32	SPI	5.2/6.8	2.5 to 3.6	2.5 to 3.6	-40 to +125	SSOP, QFN
MCP3905A/06A	500:1/1000:1	0.1%	2	16-bit	–	Up to 32	Active power pulse	3.9	4.5 to 5.5	4.5 to 5.5	-40 to +125	SSOP
MCP3909	1000:1	0.1%	2	16-bit	81 dB	Up to 16	Active power pulse/SPI	3.1	4.5 to 5.5	4.5 to 5.5	-40 to +125	SSOP
MCP39F501	4000:1	0.1%	3	24-bit	94.5	Up to 32	UART	13	2.7 to 3.6	2.7 to 3.6	-40 to +125	QFN

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
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				
MCP4011/12/13/14	64	Volatile	1	Up/Down	2.1, 5, 10, 50	-40 to +125	DFN, SOT-23				
MCP4017/18/19	128	Volatile	1	I ² C™	5, 10, 50, 100	-40 to +125	SC70				
MCP40D17/D18/D19	128	Volatile	1	I ² C	5, 10, 50, 100	-40 to +125	SC70				
MCP4021/22/23/24	64	Nonvolatile	1	Up/Down	2.1, 5, 10, 50	-40 to +125	DFN, SOT-23				
MCP4141/42	128	Nonvolatile	1	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN				
MCP4241/42	128	Nonvolatile	2	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN				
MCP4131/32	128	Volatile	1	SPI	5, 10, 50, 100	-40 to +125	QFN, DFN				
MCP4231/32	128	Volatile	2	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN				
MCP4151/52	256	Volatile	1	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN				
MCP4161/62	256	Nonvolatile	1	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN				
MCP4251/52	256	Volatile	2	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN				
MCP4261/62	256	Nonvolatile	2	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN				
MCP4341/42	129	Nonvolatile	4	SPI	5, 10, 50, 100	-40 to +125	TSSOP, QFN				
MCP4361/62	257	Nonvolatile	4	SPI	5, 10, 50, 100	-40 to +125	TSSOP, QFN				
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

INTERFACE: Controller Area Network (CAN), Infrared, LIN Transceivers, Ethernet, Serial Peripherals, USB Bridges									
Product	Description			Operating Temperature Range (°C)	Other Features				Packages
MCP2515	Stand-alone CAN controller with SPI Interface			-40 to +125	3 Tx Buffers, 2 Rx Buffers, 6 Filters, 2 Masks, Interrupt output, MCP2510 upgrade				PDIP, SOIC, TSSOP, QFN
MCP256(1/2)	High-Speed CAN Transceiver			-40 to +150	V _{DD} = 4.5V to 5.5V, 1 Mbps, ISO11898-5, meets automotive EMC and CAN conformance requirements, MCP2561 = SPLIT Option for common mode stabilization, MCP2562 = VIO Option for digital I/O level shifting from 1.8V to 5.5V				PDIP, SOIC, DFN
MCP200(3/4)A, MCP202(1/2)A, MCP2025, MCP2050	LIN (Local Interconnect Network) transceivers			-40 to +125	Product options: Stand-alone transceiver, integrated V _{REG} = 3.3V or 5V @ 70 mA, integrated WWDT, integrated ratio-metric battery monitor. V _{CC} Range = 6 to 18 V, Max Baud Rate = 20 Kbaud, Compliant with LIN 1.3, 2.0 2.1, SAE J2602, Automotive grade				PDIP, SOIC, TSSOP, DFN, QFN
MCP23X09/18	8-bit I/O port expander, 16-bit I/O port expander			-40 to +125	I ² C™ (up to 3.4 MHz) or SPI (up to 10 MHz) interface, 25 mA source/sink per I/O				PDIP, SDIP, SOIC, SSOP
MCP212(0/2), MCP2140A, MCP215(0/5)	Infrared IrDA encoders, Decoders, Protocol handlers			-40 to +85	UART to IR encoder/decoder w/hardware & software baud rate selection, IrDA® standard protocol handler plus encoder/decoder				PDIP, SDIP, SOIC, SSOP
MCP2200, MCP2210	USB Bridge Products: USB-to-UART, USB-to-SPI			-40 to +85	Supports full speed, USB 2.0 compliant, integrated PHY, Tx/Rx buffer size 64–128 bytes each, 8–9 GPIO, V _{DD} Range = 3.0 to 5.5V				SOIC, SSOP, QFN
ENC28J60	Stand-alone 10 Base-T Ethernet controller with SPI interface			-40 to +85	Ethernet controller, 8 KB RAM Buffer, Integrated 10Base-T PHY				SPDIP, SOIC, SSOP, QFN
ENC424J600	Stand-alone 10/100 Base-T Ethernet controller with SPI and parallel interface			-40 to +85	Ethernet controller, 24 KB RAM Buffer, Cryptographic Security Engine, 10/100Base-T PHY				TQFP, QFN
ENC624J600	Stand-alone 10/100 Base-T Ethernet controller with SPI and parallel interface			-40 to +85	Ethernet controller, 24 KB RAM Buffer, Cryptographic Security Engine, 10/100Base-T PHY				TQFP

INTERFACE: USB Port Power Controllers with Charger Emulation										
Product	Description		USB Port Power Switch (55 mW)	Hi-Speed USB 2.0 Switch	Battery Charger Emulation Profiles	Output Current	Indicator Output	Current Measurement	Interface	Packages
UCS1001-3/4	USB Port Power Controller with Charger Emulation		1	1	9	Up to 2.5A	Charging/Attach Detect	-	Discrete I/O	20-pin 4 x 4 QFN
UCS1002-2	Programmable USB Port Power Controller with Charger Emulation		1	1	9 plus 1 programmable	Up to 2.5A	Attach Detect	✓	I ² C™ / SMBus	20-pin 4 x 4 QFN

INTERFACE: mTouch™ AR1000 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 × 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 × 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 × 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 × 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

SAFETY & 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	122/7,152	-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	Temp. Operating Range (°C)	Features	Packages
MCP8024	3-Phase Brushless Motor	6.0 to 28.0	External	500	Direct PWM	No	Overcurrent, Overvoltage, Undervoltage, Overtemperature, 48V Load Dump Protection, Short Circuit, Shoot Through	-40 to +150	Adj. Buck Regulator, LDO, Op Amp, Overcurrent Comparator, Fault Output, Thermal Warning, Selectable Dead Time and Blanking Time	40-pin QFN-EP (5 × 5), 48-pin TQFP-EP (7 × 7)
MTS62C19A	One Bipolar Stepper Motor or Two DC Motors	10.0 to 40.0	Internal	750	Direct PWM Input, Current Limit Control, Microstepping	No	Overcurrent, Overtemperature, Under Voltage	-40 to +105	Dual Full Bridge Motor Driver for Stepper Motors, Pin Compatible with Allegro 6219	24-pin SOP
MTS2916A	One Bipolar Stepper Motor or Two DC Motors	10.0 to 40.0	Internal	750	Direct PWM Input, Current Limit Control, Microstepping	No	Overcurrent, Overtemperature, Under Voltage	-40 to +105	Dual Full Bridge Motor Driver for Stepper Motors, Pin Compatible with Allegro 2916	24-pin SOP
MTD6505	3-Phase Brushless Motor	2.0 to 5.5	Internal	750	Sensorless Sinusoidal	Frequency Generator	Overcurrent, Overvoltage, Short Circuit, Overtemperature, Motor Lock-up	-40 to +125	180° Sinusoidal Sensorless Drive, Direction Control, Programmable BEMF Coefficient Range, Fsw = 30 kHz	10-pin UDFN (3 × 3)
MTD6501C/D/G	3-Phase Brushless Motor	2.0 to 14.0	Internal	800/500/800	Sensorless Sinusoidal	Frequency Generator	Overcurrent, Short Circuit Overtemperature, Motor Lock-up	-30 to +95	180° Sinusoidal Sensorless Drive, Direction Control, Boost Mode (D), Fsw = 20 kHz (C/D), 23 kHz (G)	8-pin SOP (C, G), 10-pin MSOP (D)
MTD6502B	3-Phase Brushless Motor	2.0 to 5.5	Internal	750	Sensorless Sinusoidal	Frequency Generator	Overcurrent, Short Circuit Overtemperature, Motor Lock-up	-40 to +125	180° Sinusoidal Sensorless Drive, Direction Control, Fsw = 30 kHz	10-pin TDFN (3 × 3)

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 _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)
I ₂ C	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.

Products sorted by pin count followed by pricing.

† 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 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 × 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 × 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)	
Serial NVRAM																	
SPI	23LCV512	R	512 Kb	x 8	20 × 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 × 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), T0-92 (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), T0-92 (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), T0-92 (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), T0-92 (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), T0-92 (TO), 3-SOT-23 (TT), WLCSP (CS)
PCIM™	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 restable software WP – DIMM-DDR2/3	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY), 6-SOT-23 (OT)
	34XX04	NR	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, EU-48, EU-64 & unique ID options available	PDIP (P), SOIC (SN), TSSOP (ST), SOU (SM), MSOP (MS), DFN (MF), WLCSP (CS), TDFN (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	NR	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)

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.)																	
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)
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), SOIJ (SM)
	25X512	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), SOIJ (SM)
	25X1024	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), SOIJ (SM)

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 FLASH MEMORY																
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)	Write Protect			Special/Unique Features	Packages*
		Hardware	Software									Protected Array Size				
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
	SST25VF16B	R	16 Mb	2M x 8	75 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
	SST25VF032B	R	32 Mb	4M x 8	80 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
	SST25WF064C	R	64 Mb	8M x 8	80 MHz	2.7–3.6V	-40°C to +85°C	100,000 cycles (typical)	100 years	1.5 ms (Page Program)	20 µA	✓	✓	Various	Dual output and dual I/O read, Single- and dual-input page program, One-time programmable area, Fast read, program and erase	8L-SOIC, 8C-WSON, 16L-SOIC
	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	✓	✓	Various	SQI™ Quad I/O read/program/erase, Burst read, Index jump feature, Individual block read and write protection, Fast read, program and erase	8L-SOIC, 8C-WSON
x4	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	✓	✓	Various	SQI Quad I/O read/program/erase, Burst read, Index jump feature, Individual block read and write protection, Fast read, program and erase	8L-SOIC, 8C-WSON
	SST26WF080B/BA	NR	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	✓	✓	Various	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	NR	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	✓	✓	Various	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/BA	NR	16 Mb	2M x 8	104 MHz	2.7–3.6V	-40°C to +85°C	100,000 cycles (minimum)	100 years	1 ms (Page Program)	45 µA	✓	✓	Various	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	NR	32 Mb	4M x 8	104 MHz	2.7–3.6V	-40°C to +85°C	100,000 cycles (minimum)	100 years	1 ms (Page Program)	45 µA	✓	✓	Various	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	NR	64 Mb	8M x 8	104 MHz	2.7–3.6V	-40°C to +85°C	100,000 cycles (minimum)	100 years	1 ms (Page Program)	45 µA	✓	✓	Various	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	Released (R) Not Released (NR)		Density	Organization	Max. Clock Frequency	Operating Voltage	Temperature Range	E/W Endurance (Minimum)	Data Retention (Minimum)	Write Speed (typical)	Write Protect			Special/Unique Features	Packages
		Hardware	Software									Protected Array Size				
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	✓	✓	Various	Firmware Hub (FHW) 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	✓	✓	Various	Firmware Hub (FHW) 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	✓	✓	Various	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	✓	✓	Various	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*	Released (R) Not Released (NR)	Density	Organization	Access Time	Operating Voltage	Temperature Range	E/W Endurance (Minimum)	Data Retention (Minimum)	Write Speed (Typical)	Write Protect			Special/Unique Features	Packages**	
											Typ. Standby Current	Hardware	Software	Protected Array Size		
8x	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	48B-TFBGA, 48L-TSOP
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	NR	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	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 802.11 Modules																		
MRF24WB0MA	36	PCB	2.412–2.484	-91	+10	Yes	154	85	25	0.1 µA ⁽¹⁾	Yes	802.11b	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	\$19.23	36/Module (21.0 x 31.0 mm)	
MRF24WB0MB	36	U.FL	2.412–2.484	-91	+10	Yes	154	85	25	0.1 µA ⁽¹⁾	Yes	802.11b	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	\$19.23	36/Module (21.0 x 31.0 mm)	
RN171	49	RF PAD	2.412–2.484	-83	0 to +12	Yes	190 (+12 dBm)	38	44	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)	
RN171XV	49	Wire, U.FL, SMA	2.412–2.484	-83	0 to +12	Yes	190 (+12 dBm)	38	44	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)	
MRF24WG0MA	36	PCB	2.412–2.484	-95	+18	Yes	240	156	25	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, WPA-2-ENTERPRISE	4-wire SPI	\$26.90	36/Module (21.0 x 31.0 mm)	
MRF24WG0MB	36	U.FL	2.412–2.484	-95	+18	Yes	240	156	25	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, WPA-2-ENTERPRISE	4-wire SPI	\$26.90	36/Module (21.0 x 31.0 mm)	
RN131	44	Chip, U.FL	2.412–2.484	-85	+18	Yes	210 (+18 dBm)	40	44	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)	
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)	
MRF24J40MB	12	PCB	2.405–2.48	-102	+20	Yes	130	25	20	5 µA	Yes	CSMA-CA	ZigBee, MiWi wireless networking protocol	AES128	4-wire SPI	\$13.12	12/Module (17.8 x 27.9 mm)	
MRF24J40MC	12	U.FL	2.405–2.48	-108	+19	Yes	120	25	20	12 µA	Yes	CSMA-CA	ZigBee, MiWi wireless networking protocol	AES128	4-wire SPI	\$13.12	12/Module (17.8 x 27.9 mm)	
MRF24XA	32	-	2.405–2.48	-103	0	Yes	25	13.5	16	0.04 mA	Yes	CSMA-CA	ZigBee, MiWi wireless networking protocol	AES128	4-wire SPI	\$1.80	32/QFN	

1. Indicates "off" current for sleep column.

2. Supported in the provided stack.

WIRELESS PRODUCTS																
Product	Pin Count	Frequency Range (GHz)	Sensitivity (dBm)	Power Output (dBm)	Power Consumption			Sleep		MAC	Profiles		Interface		Volume Pricing [†]	Packages (Dimensions)
Bluetooth®																
RN42	35	2.4 to 2.48	-80	4	Standby/Idle 25 mA, Connected (normal mode) 3 mA, Connected (low power sniff) 8 mA			Standby/Idle (deep sleep enabled) 26 µA		Yes	SPP, DUN, HID, iAP, HCI, RFCOMM, L2CAP, SDP		UART, USB, Bluetooth®		\$14.56	35/Module (13.4 x 25.8 mm)
RN42XV	35	2.4 to 2.48	-80	4	Standby/Idle 25 mA, Connected (normal mode) 3 mA, Connected (low power sniff) 8 mA			Standby/Idle (deep sleep enabled) 26 µA		Yes	SPP, DUN, HID, iAP, HCI, RFCOMM, L2CAP, SDP		UART, USB, Bluetooth®		\$14.56	2 x 10/Through hole module (24.4 x 29.2 mm)
RN41	35	2.4 to 2.48	-80	15	Standby/Idle 25 mA, Connected (normal mode) 30 mA, Connected (low power sniff) 8 mA			Standby/Idle (deep sleep enabled) 250 µA		Yes	SPP, DUN, HID, iAP, HCI, RFCOMM, L2CAP, SDP		UART, USB, Bluetooth		\$20.36	35/Module (13.4 x 25.8 mm)
RN41XV	35	2.4 to 2.48	-80	15	Standby/Idle 25 mA, Connected (normal mode) 30 mA, Connected (low power sniff) 8 mA			Standby/Idle (deep sleep enabled) 250 µA		Yes	SPP, DUN, HID, iAP, HCI, RFCOMM, L2CAP, SDP		UART, USB, Bluetooth		\$20.36	2 x 10/Through hole module (24.4 x 29.2 mm)
RN52	50	2.4 to 2.48	-85	4	Idle 12 mA, Connected A2DP 26 mA, HFP/HSP 23.5 mA			N/A		Yes	A2DP, AVRCP, SPP, HFP/HSP, iAP		(Audio) Analog speaker, microphone, I²S™ master mode, S/PDIF, (Data) UART, USB, GPIO		\$17.36	50/Module (13.5 x 26.0 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				
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				
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)				

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 ^t	Packages
rfPIC® Transmitters + PIC® MCUs															
PIC12F529T48A	6	418-868	2.3K	64	201	1	1	8	Yes	OOK/FSK	100	10	2.0-3.7	\$0.85	14/TSSOP
PIC12F529T39A	6	310-928	2.3K	64	201	1	1	8	Yes	OOK/FSK	100	10	2.0-3.7	\$0.95	14/TSSOP
PIC12LF1840T48A	6	418-868	7.1K	256	256	2	1	32	Yes	OOK/FSK	100	10	1.8-3.6	\$1.12	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
rfPIC12F675F	6	380-450	1.7K	128	64	1	1	20	Yes	ASK/FSK	40	10	2.0-5.5	\$2.11	20/SSOP
rfPIC12F675H	6	850-930	1.7K	128	64	1	1	20	Yes	ASK/FSK	40	10	2.0-5.5	\$2.11	20/SSOP
rfPIC12F675K	6	290-350	1.7K	128	64	1	1	20	Yes	ASK/FSK	40	10	2.0-5.5	\$2.11	20/SSOP

^t 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
DARR82	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	Dual-band 2.4/5.8 GHz	I ^S , S/PDIF, I ^C ™, SPI	80	LQFP
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	I ^S , S/PDIF, I ^C , SPI, USB 2.0	129	FBGA
DARR84	Supports streaming of two wireless uncompressed stereo audio channels simultaneously, supports a microphone input for voice applications, latency < 20 ms, point-to-multi-point transmission, SD and HD audio, excellent Wi-Fi and Bluetooth coexistence using Wireless DNA™ technology, control data channel up to 100 kbps, integrated MCU and SRC, integrated codec and headphone amplifier for headset applications	Tri-band 2.4/5.2/5.8 GHz	I ^S , S/PDIF, I ^C , SPI/Analog In	129	FBGA
DM870A	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 a faster time to market.	2.4 GHz, 802.11 b/g	I ^S , S/PDIF, I ^C , USB, SD/SDIO, Ethernet, TFT for Display, SPI, CCIR 656 out	320	LFBGA
DM875	Reduced feature set version of the DM870A with no LCD and video output capability, well-suited for customer applications that support standard software AirPlay® software package	2.4 GHz, 802.11 b/g	I ^S , S/PDIF, I ^C , USB, SD/SDIO, Ethernet, SPI,	320	LFBGA
DM860A	Available as an alternative to DM870A with no Wi-Fi capability.	-	I ^S , S/PDIF, I ^C , USB, SD/SDIO, Ethernet, TFT for Display, SPI, CCIR 656 out	320	LFBGA

WIRELESS AUDIO: Reference Designs

Product	Features	Frequency	Interface	Pin	Module Dimensions
DWAM82	Uncompressed wireless digital audio transceiver OEM modules based on the DARR82 and DARR83 chipsets, supports up to four stereo audio streams, data encryption, bi-directional control messaging, automatic pairing, WLAN detection, automatic frequency allocation	Single-band, 5.8 GHz	I ^S , S/PDIF, I ^C ™, SPI	26-pin FFC Connector	42 x 42 mm Square PCB
DWAM83	Uncompressed wireless digital audio transceiver OEM modules based on the DARR82 and DARR83 chipsets, 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	I ^S , S/PDIF, I ^C , SPI	26-pin FFC Connector	35 x 35 mm Square PCB
DWUSB83	Uncompressed wireless digital audio transceiver OEM modules based on the DARR82 and DARR83 chipsets, 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
DWPCE83	Uncompressed wireless digital audio transceiver OEM module based on the DARR82 chip, supports up to two stereo audio streams, data encryption, bi-directional control messaging, automatic pairing, WLAN detection, automatic frequency allocation, well-suited for receiver applications such as speakers	Tri-band, 2.4/5.2/5.8 GHz	USB	-	30 x 26.8 mm
LCOS82	Uncompressed wireless digital audio transceiver OEM module based on the DARR82 chip, supports up to two stereo audio streams, data encryption, bi-directional control messaging, automatic pairing, WLAN detection, automatic frequency allocation, well-suited for receiver applications such as speakers	Single-band, 2.4 GHz	I ^S , S/PDIF, I ^C , SPI	26-pin Pin Header Connector	30 x 50 mm Rectangle

WIRELESS AUDIO: Highly-Integrated Wireless Audio Modules

Product	Features	Frequency	Interface	Pin	Module Dimensions
DWHS84	Uncompressed wireless digital audio ready-to-go headset and headphone application reference design that supports audio and microphone inputs to process gaming and VOIP headsets/headphone applications, supports multiple RF bands making it well-suited to effectively manage the interference commonly associated with Wi-Fi®, Bluetooth® and microwave ovens, using our Wireless DNA™ architecture, integrates 1MB SPI Flash, enabling KleerNet™ interoperability platform which allows for connectivity across products and brands	Tri-band 2.4/5.2/5.8 GHz	I ^S , S/PDIF, I ^C ™, SPI	-	54 x 54.5 mm
DWL84	Uncompressed wireless digital audio transceiver OEM module based on the DARR84 chip, 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	Tri-band 2.4/5.2/5.8 GHz	I ^S , S/PDIF, I ^C , SPI	-	30 x 42 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.	2.4GHz, 802.11 b/g	I ^S , S/PDIF, I ^C , USB, SD/SDIO, Ethernet, TFT for Display, SPI, CCIR 656 out	64-pin PCB Low Density Connector	46 x 85.8 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 WiFi® coexistence, data channel for audio playback control, very low power consumption	20 mW	1.5 dBm	16 bit, 44.1 Ks/s stereo	JEDEC

USB						
Product	Description	Processor Interface	# of Downstream Ports	Card Formats	Industrial Version	Package
USB Hub Controllers						
USB2412	2-Port USB 2.0 Hi-Speed Hub	USB 2.0	2	N/A	-	28-pin QFN
USB2422	Small-footprint, 2-Port value hub, Commercial and Industrial Temperature with USB Battery Charging 1.1	USB 2.0	2	N/A	✓	24-pin QFN
USB251XB	USB2.0 Hi-Speed Hub w/Battery Charger Detection	USB 2.0	2, 3, 4, 7 port options	N/A	✓	36- or 64-pin QFN
USB2524	4-Port USB 2.0 Hi-Speed Multi-Switch Hub	USB 2.0 x 2	4	N/A	-	56-pin QFN
USB3503A	3-Port USB 2.0 Hi-Speed HSIC Hub for Mobile Applications	HSIC	3	N/A	✓	25-ball WLCSP
USB3803B	3-Port USB 2.0 Hi-Speed Hub for Mobile Applications	USB 2.0	3	N/A	✓	25-ball WLCSP
USB553XB	USB 3.0 SuperSpeed Hub w/Battery Charger Detection	USB 3.0	4, 7 port options	N/A	✓	64- or 72-pin QFN
USB3X13	3-Port USB 2.0 Hi-Speed Controller Hub for Mobile Applications	USB 2.0 or HSIC	3 (USB 2.0 x2; HSIC x1)	N/A	✓	30-ball WLCSP
USB253X	USB 2.0 Hi-Speed Controller Hub w/Battery Charger Detection	USB 2.0	2, 3, 4 port options	N/A	✓	36-pin QFN
USB46X4	USB 2.0 Hi-Speed Controller Hub w/USB and HSIC Interfaces	USB 2.0 or HSIC	4 (USB 2.0 x4 or USB 2.0 x2/HSIC x2)	N/A	✓	48-pin QFN
USB Transceivers/Switches						
USB333X	Mobile Hi-Speed USB 2.0 Transceiver with Multi-frequency Support	ULPI	-	-	✓	25-ball WLCSP
USB3340	Hi-Speed USB 2.0 Transceiver with Multi-frequency Support	ULPI	-	-	✓	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
USB375XA-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
USB260X	Hi-Speed USB 2.0 Multi-Format Flash Media Hub Controller with Card Power	USB 2.0	3	SD/MMC/eMMC/MS/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	✓	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

ETHERNET							
Product	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	
Ethernet Switches							
LAN9303	10/100 3-port Managed Ethernet Switches	MII/RMII/Turbo MII	-	-	✓	56-pin QFN	
LAN9303M	10/100 3-port Managed Ethernet Switches	MII/RMII/Turbo MII	-	-	✓	72-pin QFN	
LAN9311	10/100 2-port Managed Ethernet Switches with Local Bus Interface	16-bit Host Bus	-	-	✓	128-pin VTQFP, XVTQFP	
LAN9312	10/100 2-port Managed Ethernet Switches with Local Bus Interface	32-bit Host Bus	-	-	-	128-pin VTQFP, XVTQFP	
LAN9313	10/100 3-port Managed Ethernet Switches	MII/RMII/Turbo MII	-	-	✓	128-pin VTQFP, XVTQFP	
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	
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	
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	
LAN8810	GMII 10/100/1000 Ethernet Transceiver with HP Auto-MDIX Support	GMII	-	-	✓	72-pin QFN	
LAN8820	RGMII 10/100/1000 Ethernet Transceiver with HP Auto-MDIX Support	RGMII	-	-	✓	56-pin QFN	

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

AUTOMOTIVE: MOST® (Media Oriented Systems Transport) Network Interface Controllers						
Intelligent Network Interface Controller (INIC) for MOST Networks						
Product	Features	Interface	Temperature Range	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, I ^C TM, I ^S TM/SPDIF, TSI, SPI, MediaLB®	-40° to 105°C	48	QFN	
OS81082 INIC	Fully-encapsulated, single-chip, embedded network management (MOST50)	MOST50 electrical (UTP), I ^C , I ^S , MediaLB	-40° to 95°C	64	ETQFP	
OS81092 INIC	ROM version of OS81082 INIC (MOST50)	MOST50 electrical (UTP), I ^C , I ^S , MediaLB	-40° to 105°C	48	QFN	
OS81050 INIC	Fully-encapsulated, single-chip with embedded network management (MOST25)	MOST25 FOT, I ^C , I ^S , MediaLB	Standard range: -40° to 85°C Extended range: -40° to 105°C	44	QFP, ETQFP	
OS81060 INIC	ROM version of OS81050 INIC (MOST25)	MOST25 FOT, I ^C , I ^S , MediaLB	-40° to 105°C (targeted)	40	QFN	

AUTOMOTIVE: Power Management Companion

For Diagnostics, Status Monitoring and Power Supply

Product	Features	Interface	Temperature Range	Pin	Packages
MPM8500	Power management companion for diagnostics, status monitoring and power supply	LIN 2.0, I ² C™	-40° to 105°C	24	QFN

AUTOMOTIVE: Multimedia I/O Companion

Multimedia I/O Port Expander

Product	Features	Interface	Temperature Range	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, I ² C™	-40° to 105°C	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, I ² C™	-40° to 105°C	128	ETQFP
OS85656	Low-cost multimedia I/O port expander well-suited for streaming applications	MediaLB 3-pin, streaming port I ² S™ (FSYN, FCLK, 4 x IN, 4 x Out, @ 512 Fs), serial transport stream interface (TSI), I ² C™	-40° to 105°C	48	QFN
OS85654	Low-cost multimedia I/O port expander well-suited for streaming applications, DTCP co-processor	MediaLB 3-pin, streaming port I ² S (FSYN, FCLK, 4 x IN, 4 x Out, @ 512 Fs), serial transport stream interface (TSI), I ² C™	-40° to 105°C	48	QFN

AUTOMOTIVE: Ethernet Controllers

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

Product	Features	Interface	Temperature Range	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°C	100	TQFP
LAN89530	Hi-Speed USB 2.0 to 10/100 Ethernet controller	USB 2.0	-40° to 85°C	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	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°C	4	56	QFN

AUTOMOTIVE: Ethernet Transceiver

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

Product	Features	Interface	Temperature Range	Pin	Packages
LAN88730	Small-footprint, low-power consumption, full-featured	10Base-T/100Base-TX, MII/RMII	LAN88730AM: -40° to 85°C LAN88730BM: -40° to 105°C	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	Ports	Pin	Packages
USB82512	Versatile, cost-effective, energy-efficient, incorporating MultiTRAK™, PortMap, PortSwap, PHYBoost technologies	SMBus/I ² C™	-40° to 85°C	2	36	QFN
USB82513	Versatile, cost-effective, energy-efficient, incorporating MultiTRAK, PortMap, PortSwap, PHYBoost technologies	SMBus/I ² C	-40° to 85°C	3	36	QFN
USB82514	Versatile, cost-effective, energy-efficient, incorporating MultiTRAK, PortMap, PortSwap, PHYBoost technologies	SMBus/I ² C	-40° to 85°C	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	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°C	2	48	QFN
USB82642	USB bridge/card reader combo with USB to SDIO and USB to I ² C™ bridging functionality and PortMap, PortSwap and PHYBoost technologies	Single	SD/SD High Capacity/MultiMediaCard/Memory Stick/MS PRO, MS PRO-HG	-40° to 85°C	2	48	QFN

AUTOMOTIVE: Hi-Speed USB 2.0 Transceiver

USB 2.0 Transceiver with 1.8V ULPI Interface

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

AUTOMOTIVE: Hi-Speed USB 2.0 Battery Charger

Standalone USB Battery Charger

Product	Features	Temperature Range	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°C	USB, I ^C TM, 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°C	USB, I ^C , 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	✓	I ^C TM/SPI/SMSC BC-Link™	24	QFN

PC SYSTEM & I/O CONTROLLERS: Notebook PC Products

Embedded Controller and I/O Devices for Notebook PC Platforms

Product	Features	I/O Ports	System Interface	Pin	Packages
MEC1621	32-bit embedded controller with 192K bytes embedded flash, 1K bytes EEPROM, 16K bytes SRAM, ADC, temp sensing, connected standby support	3 PS/2, 3 SMBus, 2 SPI, 16 PWM, 6 tachs, 1 serial (2-pin), 16 ADC channels, 4 temp inputs, 3 LED, 1 HDMI-CEC, 146 GPIOs, 3 SMSC BC-Link™	LPC/SMBus	176/225	LFBGA, LFBGA
MEC1620	32-bit embedded controller with 192K bytes embedded flash, 1K bytes EEPROM, 16K bytes SRAM, ADC, connected standby support	3 PS/2, 3 SMBus, 2 SPI, 16 PWM, 6 tachs, 1 serial (2-pin), 16 ADC channels, 3 LED, 1 HDMI-CEC, 153 GPIOs, 3 SMSC BC-Link	LPC/SMBus	176	LFBGA, LFBGA
MEC1308	8-bit embedded controller with 64K bytes SRAM, SPI Flash Memory Interface, ADC, Consumer IR, SMSC BC-Link technology	4 PS/2, 2 SMBus, 4 PWMs, 2 tachs, 1 serial (2-pin), 55 GPIOs, RC-6 CIR, 1 SMSC BC-Link	LPC/SMBus	128/144	VTQFP, TFBGA
MEC1312	8-bit embedded controller with 96K bytes SRAM, SPI Flash Memory Interface, PECI, ADC, PID Fan Control, SMSC BC-Link technology	4 PS/2, 3 SMBus, PECI, 4 PWMs, 2 tachs, 1 serial (2-pin), 63 GPIOs, 1 SMSC BC-Link	LPC/SMBus	128	VTQFP
SIO1028	Super I/O controller, small form factor package	3 serial, 24 GPIOs	LPC	64	QFN
LPC47N217	Super I/O controller for notebook and embedded PC applications	1 serial, 1 parallel, 14 GPIOs, IrDA®, CIR	LPC	64/56	STQFP
LPC47N217N	Super I/O controller for notebook and embedded PC applications	1 serial, 1 parallel, 14 GPIOs	LPC	64/56	STQFP, QFN
ECE1088	GPIO expander with SMSC BC-Link technology	20 GPIOs	SMBus or SMSC BC-Link	28	QFN
ECE1099	GPIO expander with Keyscan and SMSC BC-Link technology	32 GPIOs, 23:8 Keyscan	SMBus or SMSC BC-Link	40	QFN
ECE1105	GPIO expander with Keyscan, PS/2 and SMSC BC-Link technology	40 GPIOs, 23:8 Keyscan, 2 PS/2	SMBus or SMSC BC-Link	48	QFN

PC SYSTEM & I/O CONTROLLERS: Desktop PC Products

Embedded Controller and Highly-Integrated Super I/O Devices for Desktop PC Platforms

Product	Features	I/O Ports	System Interface	Pin	Packages
SCH5636	Desktop embedded controller, embedded SRAM for custom applications, closed-loop fan control, PECI 3.0 support, temperature and voltage monitoring	FDC, parallel, 2 serial, 8042 KB controller, 2 SMBus, 4 PWMs, 4 tachs, 60 GPIOs	LPC	128	QFP
SCH5627	Desktop embedded controller, SMBus master for PCH temperature support, PECI 3.0 support, voltage monitoring	FDC, parallel, 2 serial, 8042 KB controller, 2 SMBus, 4 PWMs, 4 tachs, 60 GPIOs	LPC	128	QFP
SCH5627P	Desktop embedded controller with "XLS5" power savings mode, SMBus master for PCH temperature support, PECI 3.0 support and voltage monitoring	FDC, parallel, 2 serial, 8042 KB controller, 2 SMBus, 4 PWMs, 4 tachs, 60 GPIOs	LPC	128	QFP
SCH5147	Super I/O controller, LPC hardware monitoring, PECI support, voltage monitoring	FDC, parallel, 2 serial, 8042 KB controller, 2 SMBus, 3 PWMs, 3 tachs, 29 GPIOs	LPC	128	QFP

PC SYSTEM & I/O CONTROLLERS: Server/Workstation Products

Embedded Controller and Super I/O Devices for Server and Workstation PC Platforms

Product	Features	I/O Ports	System Interface	Pin	Packages
SCH4304	Super I/O controller, X-Bus interface, RTC and auto fan control over SensorBus™ sensor interface	FDC, parallel, 2 serial, 8042 KB controller, SMBus, 3 PWMs, 8 tachs, 51 GPIOs	LPC	128	QFP

PC SYSTEM & I/O CONTROLLERS: Embedded I/O Products

Highly-Integrated Super I/O Devices with Long Product Lifecycles for Embedded PC Platforms

Product	Features	I/O Ports	System Interface	Pin	Packages
SCH3112	Super I/O controller with SMBus hardware and voltage monitoring	2 serial, parallel, FDC, 8042 KB controller, 40 GPIOs	LPC	128	VTQFP
SCH3114	Super I/O controller with SMBus hardware and voltage monitoring	4 serial, parallel, FDC, 8042 KB controller, 40 GPIOs	LPC	128	VTQFP
SCH3116	Super I/O controller with SMBus hardware and voltage monitoring	6 serial, parallel, FDC, 8042 KB controller, 40 GPIOs	LPC	128	VTQFP
LPC47M10X	Super I/O controller, full legacy I/O support	2 serial ports, parallel, 8042 KB controller, FDC, 37 GPIOs	LPC	100	QFP
SIO10N268	Super I/O controller for ISA or LPC designs, X-Bus interface for I/O memory and FWH emulation	4 serial ports, parallel, FDC, WDT, 33 GPIOs	LPC/ISA	128	VTQFP
FDC37B78X	Super I/O controller, real-time clock, consumer IR, watchdog timer, 5V operation	2 serial ports, parallel, FDC, 8042 KB controller, parallel IRQs, serial IRQs, 20 GPIOs	ISA	128	QFP

CAPACITIVE TOUCH SENSORS							
Product	Input Channels	LED Drivers	Additional Features	Proximity Included	Interface	Pin	Packages
CAP1114	14	11	Slider, reset and alert, automatic recalibration, base capacitance compensation	✓	I ² C™/SMBus	32	QFN
CAP1188	8	8	Reset, wake and alert, automatic recalibration, base capacitance compensation	✓	I ² C/SPI/SMSC BC-Link™	24	QFN
CAP1128	8	2	Reset, wake and alert, automatic recalibration, base capacitance compensation	✓	I ² C/SPI/SMSC BC-Link	20	QFN
CAP1166	6	6	Reset, wake and alert, automatic recalibration, base capacitance compensation	✓	I ² C/SPI/SMSC BC-Link	20	QFN
CAP1126	6	2	Reset, wake and alert, automatic recalibration, base capacitance compensation	✓	I ² C/SPI/SMSC BC-Link	16	QFN
CAP1133	3	3	Alert, automatic recalibration, base capacitance compensation	✓	I ² C/SMBus	10	DFN
CAP1106	6	0	Alert, automatic recalibration, base capacitance compensation	✓	I ² C/SMSC BC-Link	10	DFN
CAP1105	5	0	Automatic recalibration, base capacitance compensation	✓	SPI	10	DFN
CAP1214	14	11	Slider, reset and alert, automatic recalibration, base capacitance compensation, audio output	✓	I ² C/SMBus	32	QFN

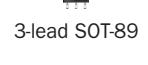
SECURITY

Product	Description	Processor Interface	# of Downstream Ports	Card Formats	Industrial Version	Package
SEC11X0	Smart Card Controller	USB 2.0	-	-	-	16-pin QFN
SEC120X	Smart Card Controller with Multi-Interface Support	USB 2.0	-	-	-	24- or 48-pin QFN
SEC2410	Smart Card Flash Media Controller with AES Encryption	USB 2.0	-	SD x2/MMC	✓	64- or 72-pin QFN
SEC4410	Smart Card Flash Media Controller with AES Encryption	HSIC	-	SD x2/MMC	✓	64- or 72-pin QFN

TERMS AND DEFINITIONS

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

Product Packages

Small Outline	Dual Flat No Lead DFN	Quad Flat No Lead QFN	Plastic Shrink Small Outline SSOP	Plastic Small Outline SOIC
Bumped Die (WLCSP)		 8-lead DFN (MC) 2 x 3 x 0.9 mm	 16-lead QFN (MG) 3 x 3 x 0.9 mm	 8-lead MSOP (MS)
Die/Wafer (WLCSP)		 8-lead TDFN (MN) 2 x 3 x 0.75 mm	 20-lead QFN (ML) 4 x 4 x 0.9 mm	 8-lead SOIC (SN)
3-lead SC70 (LB)		 8-lead UDFN (MU) 2 x 3 x 0.5 mm	 20-lead QFN (MQ) 5 x 5 x 0.9 mm	 8-lead SOIC (SM)
5-lead SC70 (LT)		 8-lead DFN (MF) 3 x 3 x 0.9 mm	 28-lead UQFN (MV) 4 x 4 x 0.5 mm	 10-lead MSOP (UN)
3-lead SOT-23 (TT/CB)		 8-lead DFN (MD) 4 x 4 x 0.9 mm	 28-lead QFN (MQ) 5 x 5 x 0.9 mm	 16-lead QSOP (QR)
5-lead SOT-23 (OT)		 8-lead DFN (MF) 6 x 5 x 0.9 mm	 28-lead QFN (MM & ML) 6 x 6 x 0.9 mm	 20-lead SSOP (SS)
6-lead SOT-23 (OT/CH)		 Very Thin Thermal Leadless Array VTLA	 40-lead UQFN (MV) 5 x 5 x 0.5 mm	 28-lead SSOP (SS)
3-SOT-223 (DB)		 36-lead VTLA (TL) 5 x 5 x 0.9 mm	 8-lead TSSOP (ST)	 18-lead SOIC (SO)
4-lead SOT-143 (RC)		 44-lead VTLA (TL) 6 x 6 x 0.9 mm	 14-lead TSSOP (ST)	 20-lead SOIC (SO)
		 124-lead VTLA (TL) 9 x 9 x 0.9 mm	 20-lead TSSOP (ST)	 28-lead SOIC (SO)
Plastic Thin Shrink Small Outline TSSOP				

Packages are shown approximate size.

Additional packages are available: contact your local Microchip sales office for information.

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Product Packages

Plastic Thin Quad Flatpack TQFP	Plastic Quad Flatpack QFP	Plastic Dual In-Line PDIP	Additional Package Options
 44-lead TQFP (PT) 10 x 10 x 1 mm	 80-lead TQFP (PF) 14 x 14 x 1 mm	 32-lead LQFP (LQ) 7 x 7 x 1.4 mm	 8-lead WSON (A6/QAE) 5 x 6 mm
 64-lead TQFP (PT) 10 x 10 x 1 mm	 100-lead TQFP (PT) 12 x 12 x 1 mm	 14-lead PDIP (P)	 8-lead XSON (Q7/QX8E) 2 x 2 x 0.5 mm
 64-lead TQFP (PF) 14 x 14 x 1 mm	 100-lead TQFP (PF) 14 x 14 x 1 mm	 18-lead PDIP (P)	 6-lead UQFN (QU/QU6E) 3 x 1.6 x 0.5 mm
 80-lead TQFP (PT) 12 x 12 x 1 mm	 144-lead TQFP (PH) 16 x 16 x 1 mm	 20-lead PDIP (P)	 32-lead PLCC (PE/NHE) 0.452" x 0.552"
Ball Grid Array BGA		 24-lead PDIP (P)	 40-lead TSOP (W8/EIE) 10 x 20 mm
100-ball BGA (BG) 10 x 10 x 1.1 mm		 28-lead SPDIP (SP)	 48-lead WFBGA (3T/MAQE) 4 x 6 x 0.73 mm
121-ball BGA (BG) 10 x 10 x 0.8 mm		 40-lead PDIP (P)	 48-lead TFBGA (8T/B3KE) 6 x 8 x 1.2 mm
48-lead TSOP (W9/EKE) 12 x 20 x 1.2 mm			 48-lead TSOP (W9/EKE) 12 x 20 x 1.2 mm
			 48-lead TSOP (W9/EKE) 12 x 20 x 1.2 mm

Packages are shown approximate size.

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