



Focus Product Selector Guide

Micromicrocontrollers • Digital Signal Controllers • Analog • Memory • Wireless

Microchip A Partner in Your Success



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

Based on a powerful RISC core, the PIC microcontroller architecture provides users with an easy migration path from 6 to 100 pins among all families, with little or no code change required. Advanced features include sophisticated timing peripherals, integrated analog-to-digital converters and communications peripherals (Ethernet/I²C™/SPI/USB/CAN ports, LIN USARTs, op amp and digital-to-analog converters). 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, more memory and additional peripherals, such as CAN communication modules. For more information visit: www.microchip.com/16bit.

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 80 MHz and offers ample code and data space capabilities with up to 512 KB Flash and 128 KB RAM. For more information visit: www.microchip.com/32bit.

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.

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 & 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 function of power amplifier with switches, Low Noise Amplifier (LNA) 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

Microchip offers radio-frequency products for adding wireless connectivity to embedded PIC microcontroller and dsPIC DSC-based designs for the following technologies: IEEE 802.15.4/ZigBee, Sub-GHz RF and IEEE 802.11/Wi-Fi. For more information visit: www.microchip.com/wireless.

Memory Products

Microchip's broad portfolio of memory devices include 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.

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.

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8-BIT PIC® MICROCONTROLLERS

Product	Released (R) Not Released (NF)	Pins			Memory				Operating Speed				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	Maximum Speed	Internal Oscillator	LCD Segments	mTouch™ Channels	8-bit ADC	16-bit ADC	12-bit ADC	Comparators	Charge Time Measurement Unit	Op Amp	DAC (5b/8b/9b)	PWM	CCP	ECCP	CWG/COG	NCO	PSMC	CLC	8-bit Timer	16-bit Timer			AUSART	EUSART	PC™/SPI	Ethernet (MAC/PHY)	USB 2.0 Device	CAN	BOR/PBOR	PLVD	SR-Latch	Timer 1 Gate	5 ku Pricing†
PIC10F200	R	6	4	BL	0.375 KB 0.25 Kw	-	16	-	2V-5.5V	4 MHz	4 MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	\$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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	\$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	-	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	\$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	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	\$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	-	-	-	-	-	-	-	-	-	-	\$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*	
PIC12F508	R	8	6	BL	0.75 KB 0.50 Kw	-	25	-	2V-5.5V	4 MHz	4 MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	\$0.41	PDIP (P), SOIC (SN), MSOP (MS), 2 x 3 DFN (MC)		
PIC12F509	R	8	6	BL	1.5 KB 1 Kw	-	41	-	2V-5.5V	4 MHz	4 MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	\$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	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	\$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	-	1.8V-5.5V	20 MHz	16 MHz	-	1	-	4	-	1	-	-	4	-	-	1/0	1	-	1	2	1	-	-	-	-	-	-	-	-	-	-	\$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	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	\$0.52	PDIP (P), SOIC (SN), MSOP (MS), 4 x 4 DFN (MD), 3 x 3 DFN (MF)		
PIC12F615	R	8	6	MR	1.75 KB 1 Kw	-	64	-	2V-15V	20 MHz	4 MHz, 8 MHz	-	4	-	4	-	1	-	-	-	-	1	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	\$0.55	PDIP (P), SOIC (SN), MSOP (MS), 4 x 4 DFN (MD), 3 x 3 DFN (MF)		
PIC12F617	R	8	6	MR	3.5 KB 2 Kw	RW	128	-	2V-5.5V	20 MHz	4 MHz, 8 MHz	-	4	-	4	-	1	-	-	-	-	1	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	\$0.59	PDIP (P), SOIC (SN), MSOP (MS), 3 x 3 DFN (MF)		
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), 3 x 3 DFN (MF)	HV Option	
PIC12F629	R	8	6	MR	1.75 KB 1 Kw	-	64	128	2V-5.5V	20 MHz	4 MHz	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	\$0.70	PDIP (P), SOIC (SN), 4 x 4 DFN (MD), 6 x 5 DFN (MF)		
PIC12F1822	MR	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	-	-	-	1	-	-	-	-	2	1	-	1	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	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	\$0.77	PDIP (P), SOIC (SN), 4 x 4 DFN (MD), 6 x 5 DFN (MF)		
PIC12F1840	MR	R	8	6	EMR	7 KB 4 Kw	RW	256	256	1.8V-5.5V	32 MHz	32 MHz, 31 kHz	-	-	-	4	-	1	-	-	-	1	-	-	-	-	2	1	-	1	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	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	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	-	-	-	1	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	\$0.91	PDIP (P), SOIC (SN), 4 x 4 DFN (MD)		
PIC16F753	NR	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	-	-	-	-	-	-	-	-	-	-	call for pricing	PDIP (P), SOIC (SL), TSSOP (ST), 4 x 4 QFN (ML)	HV Option
PIC16F505	R	R	14	12	BL	1.5 KB 1 Kw	-	72	-	2V-5.5V	20 MHz	4 MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	\$0.48	PDIP (P), SOIC (SL), TSSOP (ST), 3 x 3 QFN (MG)		
PIC16F506	R	R	14	12	BL	1.5 KB 1 Kw	-	67	-	2V-5.5V	20 MHz	4/8 MHz	-	4	4	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	\$0.52	PDIP (P), SOIC (SL), TSSOP (ST), 3 x 3 QFN (MG)		
PIC16F526	R	R	14	12	BL	1.5 KB 1 Kw	-	67	64	2V-5.5V	20 MHz	4/8 MHz	-	4	4	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	\$0.55	PDIP (P), SOIC (SL), TSSOP (ST), 3 x 3 QFN (MG)	Lowest cost Data EE	
PIC16F1503	R	R	14	12	EMR	3.5 KB 2 Kw	RW	128	-	1.8V-5.5V	20 MHz	16 MHz	-	2	-	8	-	2	-	-	-	4	-	-	1/0	1	-	1	2	1	-	-	1	-	-	-	-	-	-	\$0.55	PDIP (P), SOIC (SO), SSOP (SS), 3 x 3 QFN (MG)	Temp*
PIC16F610	R	R	14	12	MR	1.75 KB 1 Kw	-	64	-	2V-15V	20 MHz	4/8 MHz	-	-	-	-	2	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	\$0.59	PDIP (P), SOIC (SL), TSSOP (ST), 4 x 4 QFN (ML)		
PIC16F616	R	R	14	12	MR	3.5 KB 2 Kw	-	128	-	2V-15V	20 MHz	4/8 MHz	-	8	-	8	-	2	-	-	-	1	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	\$0.69	PDIP (P), SOIC (SL), TSSOP (ST), 4 x 4 QFN (ML)		
PIC16F1823	MR	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	-	-	-	-	-	-	-	\$0.78	PDIP (P), SOIC (SL), TSSOP (ST), 4 x 4 QFN (ML)	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.
 MR eXtreme Low Power variants available.

8-BIT PIC® MICROCONTROLLERS

Product	Released (R) Not Released (NR)	Pins			Memory				Operating Speed		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	Maximum Speed	Internal Oscillator	LCD Segments	mTouch™ Channels	8-bit ADC	16-bit ADC	12-bit ADC	Comparators	Charge Time Measurement Unit	Op Amp	DAC (5b/8b/9b)	PWM	CCP	ECCP	CWG/COG	NCO	PSMC	CLC	8-bit Timer	16-bit Timer	AUSART	EUSART			PC™/SPI	Ethernet (MAC/PHY)	USB 2.0 Device	CAN	BOR/PBOR	PLVD	SR-Latch	Timer 1 Gate	5 ku Pricing†	
PIC16F1824	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	SW	✓	✓	\$0.84	PDIP (P), SOIC (SL), TSSOP (ST), 4 × 4 QFN (ML)	DSM, Temp*
PIC16F630	R	14	12	MR	1.75 KB 1 Kw	-	64	128	2V-5.5V	20 MHz	4 MHz	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	✓	✓	\$0.91	PDIP (P), SOIC (SL), TSSOP (ST), 4 × 4 QFN (ML)		
PIC16F1454	NR	14	12	EMR	7 KB 4 Kw	RW	512	-	1.8V-5.5V	48 MHz	48 MHz, 31 kHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	1	-	✓	-	-	-	-	✓	✓	\$0.91	PDIP (P), TSSOP (ST), SOIC (SL), 4 × 4 QFN (ML)	Crystal Free USB	
PIC16F636	R	14	12	MR	3.5 KB 2 Kw	-	128	256	2V-5.5V	20 MHz	8 MHz, 31 kHz	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	✓	✓	\$0.92	PDIP (P), SOIC (SL), TSSOP (ST), 4 × 4 QFN (ML)	KeeLoq®	
PIC16F1825	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	-	-	-	-	-	-	✓	✓	\$0.92	PDIP (P), SOIC (SL), TSSOP (ST), 4 × 4 QFN (ML)	DSM, Temp*	
PIC16F676	R	14	12	MR	1.75 KB 1 Kw	-	64	128	2V-5.5V	20 MHz	4 MHz	-	8	-	8	-	1	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	✓	✓	\$0.98	PDIP (P), SOIC (SL), TSSOP (ST), 4 × 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	-	-	-	-	-	-	-	-	-	✓	✓	\$0.98	PDIP (P), SOIC (SL), TSSOP (ST), 4 × 4 QFN (ML)		
PIC16F688	R	14	12	MR	7 KB 4 Kw	R	256	256	2V-5.5V	20 MHz	8 MHz, 31 kHz	-	8	-	8	-	2	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	-	-	-	✓	✓	\$1.04	PDIP (P), SOIC (SL), TSSOP (ST), 4 × 4 QFN (ML)		
PIC16F1455	R	14	12	EMR	14 KB 8 Kw	RW	1024	-	1.8V-5.5V	48 MHz	48 MHz, 31 kHz	-	5	-	5	-	2	-	-	-	2	-	-	-	-	-	2	1	-	1	1	-	✓	-	-	-	✓	✓	\$1.04	PDIP (P), TSSOP (ST), SOIC (SL), 4 × 4 QFN (ML)	Crystal Free USB		
PIC16F54	R	18	12	BL	0.75 KB 0.50 Kw	-	25	-	2V-5.5V	20 MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	✓	✓	\$0.39	PDIP (P), SOIC (SO), SSOP (SS)		
PIC16F716	R	18	13	MR	3.5 KB 2 Kw	-	128	-	2V-5.5V	20 MHz	-	-	-	-	4	-	-	-	-	-	1	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	✓	✓	\$0.77	PDIP (P), SOIC (SO), SSOP (SS)		
PIC16F1826	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	-	-	-	-	2	1	-	1	1	-	-	-	-	-	-	✓	✓	\$0.97	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)	DSM, Temp*	
PIC16F1827	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	-	-	-	-	4	1	-	1	2	-	-	-	-	-	✓	✓	\$1.04	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)	DSM, Temp*		
PIC16F1847	R	18	16	EMR	14 KB 8 Kw	RW	1024	256	1.8V-5.5V	32 MHz	32 MHz, 31 kHz	-	-	-	12	-	2	-	-	-	2	2	-	-	-	-	4	1	-	1	2	-	-	-	-	-	✓	✓	\$1.09	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML), UQFN (MV)	DSM, Temp*		
PIC16F527	R	20	17	EBL	1.5 KB 1 Kw	RW	64	64	1.8V-5.5V	20 MHz	48 MHz	-	-	8	-	-	2	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	call for pricing				
PIC16F1507	R	20	18	EMR	3.5 KB 2 Kw	RW	128	-	1.8V-5.5V	20 MHz	16 MHz	-	-	-	12	-	-	-	-	-	4	-	-	1/0	1	-	1	2	1	-	-	-	-	-	-	-	-	✓	✓	\$0.69	PDIP (P), SOIC (SO), SSOP, 4 × 4 QFN (ML)	Temp*	
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	-	-	-	-	-	2	1	1	-	1	-	-	-	-	-	-	✓	✓	\$0.77	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)	Temp*	
PIC16F1508	R	20	18	EMR	7 KB 4 Kw	RW	256	-	1.8V-5.5V	20 MHz	16 MHz	-	2	-	12	-	2	-	-	-	4	-	-	1/0	1	-	1	2	1	-	1	1	-	-	-	-	-	✓	✓	\$0.77	PDIP (P), SOIC (SO), SSOP, 4 × 4 QFN (ML)	Temp*	
PIC16F1509	R	20	18	EMR	14 KB 8 Kw	RW	512	-	1.8V-5.5V	20 MHz	16 MHz	-	2	-	12	-	2	-	-	-	4	-	-	1/0	1	-	1	2	1	-	1	1	-	-	-	-	-	✓	✓	\$0.81	PDIP (P), SOIC (SO), SSOP, 4 × 4 QFN (ML)	Temp*	
PIC16F721	R	20	18	MR	7 KB 4 Kw	RW	256	-	1.8V-5.5V	16 MHz	16 MHz, 500 kHz	-	12	12	-	-	-	-	-	-	1	-	-	-	-	-	2	1	1	-	1	-	-	-	-	-	-	✓	✓	\$0.84	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)	Temp*	
PIC16F631	R	20	18	MR	1.75 KB 1 Kw	R	64	128	2V-5.5V	20 MHz	8 MHz, 31 kHz	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	✓	✓	\$0.91	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)		
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	-	-	-	-	-	-	-	-	-	1	1	-	-	1	-	-	-	-	-	-	✓	✓	\$0.99	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	-	-	-	-	4	1	-	1	1	-	-	-	-	-	-	✓	✓	\$0.99	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)	DSM, Temp*	
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	-	-	-	-	4	1	-	1	2	-	-	-	-	-	-	✓	✓	\$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	-	-	-	-	-	-	-	-	-	1	1	-	1	1	-	-	-	-	-	-	✓	✓	\$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	-	-	-	-	2	1	-	-	-	-	-	-	-	-	✓	✓	\$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	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	✓	✓	\$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	-	-	-	-	-	-	-	-	-	1	1	-	1	1	-	-	-	-	-	✓	✓	\$1.13	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.

8-BIT PIC® MICROCONTROLLERS

Product	Released (R) Not Released (NR)	Pins			Memory			Operating Speed		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	Maximum Speed	Internal Oscillator	LCD Segments	mTouch™ Channels	8-bit ADC	16-bit ADC	12-bit ADC	Comparators	Charge Time Measurement Unit	Op Amp	DAC (5b/8b/9b)	PWM	CCP	ECCP	CWG/COG	NCO	PSMC			CLC	8-bit Timer	16-bit Timer	AUSART	EUSART	PC™/SPI	Ethernet (MAC/PHY)	USB 2.0 Device	CAN	BOR/PBOR	PLVD	SR-Latch	Timer + Gate	5 Ku Pricing†	
20-Pin (Cont.)	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	-	-	-	-	-	2	1	-	1	1	-	✓	-	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	-	-	-	-	2	1	-	1	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	-	-	-	-	1	3	-	1	1	-	-	-	PBOR	SW0	✓	-	\$1.33	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)	Temp*	
	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	-	-	-	-	1	3	-	1	1	-	✓	-	PBOR	SW0	✓	-	\$1.39	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)	Temp*
	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	-	-	-	-	1	3	-	1	1	-	-	-	PBOR	SW0	✓	-	\$1.47	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)	Temp*
	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	-	-	-	-	1	3	-	1	1	-	✓	-	PBOR	SW0	✓	-	\$1.53	PDIP (P), SOIC (SO), SSOP (SS), QFN (ML)	Temp*
28-Pin	PIC16F570	NR	28	24	EBL	3 KB 2 Kw	RW	132	64	1.8V- 5.5V	20 MHz	48 MHz	-	-	8	-	2	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	BOR	-	-	-	call for pricing	PDIP (P), 6 x 6 QFN (ML), SSOP (SS), SOIC (SO)		
	PIC16F1788	NR	28	25	EMR	28 KB 16 Kw	RW	2K	256	1.8V- 5.5V	32 MHz	32 MHz	-	11	-	11	4	-	2	3/1/0	-	3	-	-	-	4	-	2	1	-	1	1	-	-	-	-	BOR	SW0	-	✓	call for pricing	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML)	
	PIC16F57	R	28	20	BL	3 KB 2 Kw	-	72	-	2V- 5.5V	20 MHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	\$0.52	SPDIP (SP), SOIC (SO), SSOP (SS)			
	PIC16F722A	R	28	25	MR	3.5 KB 2 Kw	R	128	-	1.8V- 5.5V	20 MHz	16 MHz	-	11	11	-	-	-	-	-	-	-	2	-	-	-	-	2	1	1	-	1	-	-	-	BOR	SW0	-	✓	\$0.78	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML), 4 x 4 UQFN (MV)	Temp*	
	PIC16LF1902	R	28	25	EMR	3.5 KB 2 Kw	RW	128	-	1.8V- 3.6V	20 MHz	16 MHz	72	11	-	11	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	SW0	-	-	\$0.78	SPDIP (SP), SOIC (SO), SSOP (SS), 4 x 4 UQFN (MV)	Temp*	
	PIC16F1512	R	28	25	EMR	3.5 KB 2 Kw	RW	128	-	1.8V- 5.5V	20 MHz	16 MHz, 31 kHz	-	17	-	17	-	-	-	-	-	-	2	-	-	-	-	2	1	-	1	1	-	-	-	PBOR	SW	-	✓	\$0.81	SPDIP (SP), SOIC (SO), SSOP (SS), 4 x 4 UQFN (MV)	Temp*	
	PIC16F723A	R	28	25	MR	7 KB 4 Kw	R	192	-	1.8V- 5.5V	20 MHz	16 MHz	-	11	11	-	-	-	-	-	-	-	2	-	-	-	-	2	1	1	-	1	-	-	-	BOR	SW0	-	✓	\$0.85	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML), 4 x 4 UQFN (MV)	Temp*	
	PIC16LF1903	R	28	25	EMR	7 KB 4 Kw	RW	256	-	1.8V- 3.6V	20 MHz	16 MHz	72	11	-	11	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	SW0	-	-	\$0.85	SPDIP (SP), SOIC (SO), SSOP (SS), 4 x 4 UQFN (MV)	Temp*		
	PIC16F1513	R	28	25	EMR	7 KB 4 Kw	RW	256	-	1.8V- 5.5V	20 MHz	16 MHz, 31 kHz	-	17	-	17	-	-	-	-	-	-	2	-	-	-	-	2	1	-	1	1	-	-	-	PBOR	SW	-	✓	\$0.88	SPDIP (SP), SOIC (SO), SSOP (SS), 4 x 4 UQFN (MV)	Temp*	
	PIC16LF1906	R	28	25	EMR	14 KB 8 Kw	RW	512	-	1.8V- 3.6V	20 MHz	16 MHz	72	11	-	11	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	-	SW0	-	-	\$0.91	SPDIP (SP), SOIC (SO), SSOP (SS), 4 x 4 UQFN (MV)	Temp*	
	PIC16F1516	R	28	25	EMR	14 KB 8 Kw	RW	512	-	1.8V- 5.5V	20 MHz	16 MHz	-	17	-	17	-	-	-	-	-	-	2	-	-	-	-	2	1	-	1	1	-	-	-	PBOR	SW	-	✓	\$0.95	SPDIP (SP), SOIC (SO), SSOP (SS), 4 x 4 UQFN (MV)	Temp*	
	PIC16F1518	R	28	25	EMR	28 KB 16 Kw	RW	1024	-	1.8V- 5.5V	20 MHz	16 MHz	-	17	-	17	-	-	-	-	-	-	2	-	-	-	-	2	1	-	1	1	-	-	-	PBOR	SW	-	✓	\$1.01	SPDIP (SP), SOIC (SO), SSOP (SS), 4 x 4 UQFN (MV)	Temp*	
	PIC16F882	R	28	25	MR	3.5 KB 2 Kw	RW	128	128	2V- 5.5V	20 MHz	8 MHz, 31 kHz	-	11	-	11	-	2	-	-	-	-	1	1	-	-	-	2	1	-	1	1	-	-	-	BOR	SW0	✓	✓	\$1.16	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML)		
	PIC16F726	R	28	25	MR	14 KB 8 Kw	R	368	-	1.8V- 5.5V	20 MHz	16 MHz	-	11	11	-	-	-	-	-	-	-	2	-	-	-	-	2	1	1	-	1	-	-	-	BOR	SW0	-	✓	\$1.23	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML), 4 x 4 UQFN (MV)	Temp*	
	PIC16F1782	R	28	25	EMR	3.5 KB 2 Kw	RW	256	256	1.8V- 5.5V	32 MHz	32 MHz	-	11	-	11	3	-	2	0/1/0	-	2	-	-	-	2	-	2	1	-	1	1	-	-	-	BOR	SW0	-	✓	\$1.23	SPDIP (SP), SOIC (SO), SSOP (SS), 6 x 6 QFN (ML), 4 x 4 UQFN (MV)		
	PIC16F1933	R	28	25	EMR	7 KB 4 Kw	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 x 6 QFN (ML), 4 x 4 UQFN (MV)	Temp*	
	PIC18F23K20	R	28	25	PIC18	8 KB 4 Kw	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 x 6 QFN (ML), 4 x 4 UQFN (MV)		
	PIC16F1783	R	28	25	EMR	7 KB 4 Kw	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 x 6 QFN (ML), 4 x 4 UQFN (MV)		
	PIC16F1936	R	28	25	EMR	14 KB 8 Kw	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 x 6 QFN (ML), 4 x 4 UQFN (MV)	Temp*	
	PIC18F24K20	R	28	25	PIC18	16 KB 8 Kw	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 x 6 QFN (ML)		
PIC16F883	R	28	25	MR	7 KB 4 Kw	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 x 6 QFN (ML)			
PIC16F1786	NR	28	25	EMR	14 KB 8 Kw	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 x 6 QFN (ML)			
PIC16F1938	R	28	25	EMR	28 KB 16 Kw	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 x 6 QFN (ML), 4 x 4 UQFN (MV)	Temp*		
PIC18F25K20	R	28	25	PIC18	32 KB 16 Kw	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 x 6 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		Analog Sensing & Measurement							Digital					Communication				Monitors		Packages (Designator)	Special Features														
		Total	I/O	Core	Program	Self-Read/Write	Data RAM (B)		Data EE (B)	Maximum Speed	Internal Oscillator	LCD Segments	mTouch™ Channels	8-bit ADC	16-bit ADC	12-bit ADC	Comparators	Charge Time Measurement Unit	Op Amp	DAC (5b/8b/9b)	PWM	CCP	ECCP	CMW/COG	NCO	PSMC	CLC	8-bit Timer			16-bit Timer	AUSART	EUSART	I ² C™/SPI	Ethernet (MAC/PHY)	USB 2.0 Device	CAN	BOR/PBOR	PLVD	SR-Latch	Timer 1 Gate	5 ku Pricing†		
PIC18F23K22	R	28	25	PIC18	8 KB 4 Kw	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)	Temp*		
PIC18F24J10	R	28	21	PIC18	16 KB 8 Kw	1024	–	2V– 3.6V	40 MHz	32 kHz	–	10	–	10	–	2	–	–	–	–	2	–	–	–	–	–	–	2	–	1	1	–	–	–	–	BOR	–	–	–	\$1.44	SPDIP (SP), SOIC (SO), QFN (ML)			
PIC18F24K22	R	28	25	PIC18	16 KB 8 Kw	768	256	1.8V– 5.5V	64 MHz	16 MHz, 31 kHz	–	17	–	17	–	2	✓	–	–	–	1	1	–	–	–	–	–	3	–	2	2	–	–	–	–	PBOR	✓	✓	✓	\$1.48	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML), 4 × 4 UQFN (MV)	Temp*		
PIC16F886	R	28	25	MR	14 KB 8 Kw	368	256	2V– 5.5V	20 MHz	8 MHz, 31 kHz	–	11	–	11	–	2	–	–	–	–	1	1	–	–	–	–	–	1	–	1	1	–	–	–	–	BOR	SW	✓	✓	\$1.49	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML)			
PIC18F25J10	R	28	21	PIC18	32 KB 16 Kw	1024	–	2V– 3.6V	40 MHz	32 kHz	–	10	–	10	–	2	–	–	–	–	2	–	–	–	–	–	–	2	–	1	1	–	–	–	–	BOR	–	–	–	\$1.58	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)			
PIC18F25K22	R	28	25	PIC18	32 KB 16 Kw	1536	256	1.8V– 5.5V	64 MHz	16 MHz, 31 kHz	–	17	–	17	–	2	✓	–	–	–	2	3	–	–	–	–	–	4	–	2	2	–	–	–	–	PBOR	✓	✓	✓	\$1.62	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML)	Temp*		
PIC18F24J11	R	28	21	PIC18	16 KB 8 Kw	3800	–	2V– 3.6V	48 MHz	8 MHz, 31 kHz	–	10	–	10	–	2	✓	–	–	–	–	2	–	–	–	–	–	3	–	2	2	–	–	–	–	BOR	SW	–	–	\$1.65	SPDIP (SP), SOIC (SO), QFN (ML)	Peripheral Pin Select, Deep Sleep Mode		
PIC18F24K50	R	28	25	PIC18	16 KB 8 Kw	2K	256	1.8V– 5.5V	48 MHz	48 MHz	–	14	–	14	–	2	✓	–	–	–	1	1	–	–	–	–	–	2	2	–	1	1	–	✓	–	–	BOR	–	–	–	\$1.65	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML)		
PIC18F26K20	R	28	25	PIC18	64 KB 32 Kw	3936	1024	1.8V– 3.6V	64 MHz	16 MHz, 31 kHz	–	11	–	11	–	2	–	–	–	–	1	1	–	–	–	–	–	3	–	1	1	–	–	–	–	PBOR	✓	–	–	\$1.65	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML)	Temp*		
PIC18F25K50	R	28	25	PIC18	16 KB 16 Kw	2K	256	1.8V– 5.5V	48 MHz	48 MHz	–	14	–	14	–	2	✓	–	–	–	1	1	–	–	–	–	–	2	2	–	1	1	–	✓	–	–	BOR	–	–	–	\$1.76	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML)	Crystal Free USB	
PIC18F25J11	R	28	21	PIC18	32 KB 16 Kw	3800	–	2V– 3.6V	48 MHz	8 MHz, 31 kHz	–	10	–	10	–	2	✓	–	–	–	–	2	–	–	–	–	–	3	–	2	2	–	–	–	–	BOR	SW	–	–	\$1.79	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)	Peripheral Pin Select, Deep Sleep Mode		
PIC18F24J50	R	28	22	PIC18	16 KB 8 Kw	3800	–	2V– 3.6V	48 MHz	8 MHz, 31 kHz	–	10	–	10	–	2	✓	–	–	–	–	2	–	–	–	–	–	2	3	–	2	2	–	✓	–	–	BOR	SW	–	–	\$1.86	SPDIP (SP), SOIC (SO), QFN (ML)	Peripheral Pin Select, Deep Sleep Mode	
PIC18F26K22	R	28	25	PIC18	64 KB 32 Kw	3896	1024	1.8V– 5.5V	64 MHz	16 MHz, 31 kHz	–	17	–	17	–	2	✓	–	–	–	2	3	–	–	–	–	–	3	4	–	2	2	–	–	–	–	PBOR	✓	✓	✓	\$1.92	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML)	Temp*	
PIC18F25K80	R	28	24	PIC18	32 KB 16 Kw	3648	1024	1.8V– 5.5V	64 MHz	8 MHz, 31 kHz	–	8	–	8	2	✓	–	–	–	–	4	1	–	–	–	–	–	2	3	–	2	1	–	–	✓	–	PBOR	✓	–	–	\$1.93	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)	Deep Sleep Mode	
PIC18F25J50	R	28	22	PIC18	32 KB 16 Kw	3800	–	2V– 3.6V	48 MHz	8 MHz, 31 kHz	–	10	–	10	–	2	✓	–	–	–	–	2	–	–	–	–	–	2	3	–	2	2	–	✓	–	–	BOR	SW	–	–	\$2.00	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)	Peripheral Pin Select, Deep Sleep Mode	
PIC18F26J11	R	28	21	PIC18	64 KB 32 Kw	3800	–	2V– 3.6V	48 MHz	8 MHz, 31 kHz	–	10	–	10	–	2	✓	–	–	–	–	2	–	–	–	–	–	2	3	–	2	2	–	–	–	–	BOR	SW	–	–	\$2.07	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)	Peripheral Pin Select, Deep Sleep Mode	
PIC18F26K80	R	28	24	PIC18	64 KB 32 Kw	3648	1024	1.8V– 5.5V	64 MHz	8 MHz, 31 kHz	–	8	–	8	2	✓	–	–	–	–	4	1	–	–	–	–	–	2	3	–	2	1	–	–	✓	–	PBOR	✓	–	–	\$2.21	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)	Deep Sleep Mode	
PIC18F26J13	R	28	23	PIC18	64 KB 32 Kw	3808	–	2V– 3.6V	48 MHz	8 MHz, 31 kHz	–	10	–	10	3	✓	–	–	–	–	7	3	–	–	–	–	–	4	4	–	2	2	–	–	–	–	BOR	✓	–	–	\$2.24	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)	SPI w/DMA	
PIC18F26J50	R	28	22	PIC18	64 KB 32 Kw	3800	–	2V– 3.6V	48 MHz	8 MHz, 31 kHz	–	10	–	10	–	2	✓	–	–	–	–	2	–	–	–	–	–	2	3	–	2	2	–	✓	–	–	BOR	SW	–	–	\$2.28	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)	Peripheral Pin Select, Deep Sleep Mode	
PIC18F26J53	R	28	22	PIC18	64 KB 32 Kw	3808	–	2V– 3.6V	48 MHz	8 MHz, 31 kHz	–	10	–	10	3	✓	–	–	–	–	7	3	–	–	–	–	–	4	4	–	2	2	–	✓	–	–	BOR	✓	–	–	\$2.45	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)	SPI w/DMA	
PIC18F27J13	R	28	23	PIC18	128 KB 64 Kw	3808	–	2V– 3.6V	48 MHz	8 MHz, 31 kHz	–	10	–	10	3	✓	–	–	–	–	7	3	–	–	–	–	–	4	4	–	2	2	–	–	–	–	BOR	✓	–	–	\$2.48	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)	SPI w/DMA	
PIC18F27J53	R	28	22	PIC18	128 KB 64 Kw	3808	–	2V– 3.6V	48 MHz	8 MHz, 31 kHz	–	10	–	10	3	✓	–	–	–	–	7	3	–	–	–	–	–	4	4	–	2	2	–	✓	–	–	BOR	✓	–	–	\$2.69	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)	SPI w/DMA	
PIC18F1789	NR	40	36	EMR	28 KB 16 Kw	2K	256	1.8V– 5.5V	32 MHz	32 MHz	–	14	–	–	14	4	–	3	3/1/0	–	3	–	–	–	–	–	4	–	2	1	–	1	1	–	–	–	–	BOR	–	–	✓	call for pricing	SPDIP (SP), SOIC (SO), SSOP (SS), 6 × 6 QFN (ML), 4 × 4 UQFN (MV)	
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	256	–	1.8V– 3.6V	20 MHz	16 MHz	116	14	–	14	–	–	–	–	–	–	–	–	–	–	–	–	–	1	1	–	1	–	–	–	–	–	–	–	–	–	\$1.19	PDIP (P), TQFP (PT), 5 × 5 UQFN (MV)	Integrated LCD Driver, Temp*	
PIC16LF1907	R	40	36	EMR	14 KB 8 Kw	512	–	1.8V– 3.6V	20 MHz	16 MHz	116	14	–	14	–	–	–	–	–	–	–	–	–	–	–	–	–	1	1	–	1	–	–	–	–	–	–	–	–	–	\$1.25	PDIP (P), TQFP (PT), 5 × 5 UQFN (MV)	Integrated LCD Driver, Temp*	
PIC16F1517	R	40	36	EMR	14 KB 8 Kw	512	–	1.8V– 5.5V	20 MHz	16 MHz	–	28	–	28	–	–	–	–	–	–	2	–	–	–	–	–	–	2	1	–	1	1	–	–	–	–	PBOR	SW	–	✓	\$1.32	PDIP (P), TQFP (PT), 5 × 5 UQFN (MV)	Temp*	
PIC16F1519	R	40	36	EMR	28 KB 16 Kw	1024	–	1.8V– 5.5V	20 MHz	16 MHz	–	28	–	28	–	–	–	–	–	–	2	–	–	–	–	–	–	2	1	–	1	1	–	–	–	–	PBOR	SW	–	✓	\$1.37	PDIP (P), TQFP (PT), 5 × 5 UQFN (MV)	Temp*	
PIC16F724	R	40	36	MR	7 KB 4 Kw	192	–	1.8V– 5.5V	20 MHz	16 MHz	–	16	14	–	–	–	–	–	–	–	2	–	–	–	–	–	–	2	1	1	–	1	–	–	–	BOR	SW	–	✓	\$1.40	PDIP (P), TQFP (PT), 8 × 8 QFN (ML), 5 × 5 UQFN (MV)	Temp*		
PIC16F1934	R	40	36	EMR	7 KB 4 Kw	256	256	1.8V– 5.5V	32 MHz	32 MHz, 31 kHz	96	16	–	14	–	2	–	–	–	–	–	2	3	–	–	–	–	–	4	1	–	1	1	–	–	–	–	PBOR	SW	✓	✓	\$1.47	PDIP (P), TQFP (PT), 8 × 8 QFN (ML), 5 × 5 UQFN (MV)	Temp*
PIC18F43K20	R	40	36	PIC18	8 KB 4 Kw	512	256	1.8V– 3.6V	64 MHz	16 MHz, 31 kHz	–	14	–	14	–	2	–	–	–	–	–	1	1	–	–	–	–	–	1	3	–	1	1	–	–	–	–	BOR	✓	–	–	\$1.47	PDIP (P), TQFP (PT), 8 × 8 QFN (ML), 5 × 5 UQFN (MV)	

8-BIT PIC® MICROCONTROLLERS

Product	Released (R) Not Released (NR)	Pins			Memory			Voltage Range	Operating Speed		Analog Sensing & Measurement							Digital					Communication				Monitors		Packages (Designator)	Special Features												
		Total	I/O	Core	Program	Self-Read/Write	Data RAM (B)		Data EE (B)	Maximum Speed	Internal Oscillator	LCD Segments	mTouch™ Channels	8-bit ADC	16-bit ADC	12-bit ADC	Comparators	Charge Time Measurement Unit	Op Amp	DAC (5b/8b/9b)	PWM	CCP	ECCP	CCWG/COG	NCO	PSMC	CLC	8-bit Timer			16-bit Timer	AUSART	EUSART	IC™/SPI	Ethernet (MAC/PHY)	USB 2.0 Device	CAN	BOR/PBOR	PLVD	SR-Latch	Timer 1 Gate	5 ku Pricing†
PIC16F727	R	40	36	MR	14 KB 8 Kw	RW	368	-	1.8V- 5.5V	20 MHz	16 MHz	-	16	14	-	-	-	-	-	2	-	-	-	-	-	2	1	1	-	1	-	-	-	-	BOR	SW0	-	✓	\$1.54	PDIP (P), TQFP (PT), 8 × 8 QFN (ML), 5 × 5 UQFN (MV)	Temp*	
PIC16F1784	NR	40	36	EMR	7 KB 4 Kw	RW	512	256	1.8V- 5.5V	32 MHz	32 MHz	-	-	-	-	14	4	-	3	0/1/0	-	3	-	-	-	3	-	2	1	-	1	1	-	-	-	BOR	SW0	-	✓	\$1.54	PDIP (P), TQFP (PT), 8 × 8 QFN (ML), 5 × 5 UQFN (MV)	
PIC16F1937	R	40	36	EMR	14 KB 8 Kw	RW	512	256	1.8V- 5.5V	32 MHz	32 MHz, 31 kHz	96	16	-	14	-	2	-	-	-	2	3	-	-	-	-	4	1	-	1	1	-	-	-	PBOR	SW0	✓	✓	\$1.54	PDIP (P), TQFP (PT), 8 × 8 QFN (ML), 5 × 5 UQFN (MV)	Temp*	
PIC18F44K20	R	40	36	PIC18	16 KB 8 Kw	RW	768	256	1.8V- 3.6V	64 MHz	16 MHz, 31 kHz	-	14	-	14	-	2	-	-	-	1	1	-	-	-	-	1	3	-	1	1	-	-	-	PBOR	✓	-	-	\$1.54	PDIP (P), TQFP (PT), 8 × 8 QFN (ML), 5 × 5 UQFN (MV)		
PIC16F1787	NR	40	36	EMR	14 KB 8 Kw	RW	1024	256	1.8V- 5.5V	32 MHz	32 MHz	-	-	-	-	14	4	-	3	0/1/0	-	3	-	-	-	3	-	2	1	-	1	1	-	-	-	BOR	SW0	-	✓	\$1.61	PDIP (P), TQFP (PT), 8 × 8 QFN (ML), 5 × 5 UQFN (MV)	
PIC16F1939	R	40	36	EMR	28 KB 16 Kw	RW	1024	256	1.8V- 5.5V	32 MHz	32 MHz, 31 kHz	96	16	-	14	-	2	-	-	-	2	3	-	-	-	-	4	1	-	1	1	-	-	-	PBOR	SW0	✓	✓	\$1.61	PDIP (P), TQFP (PT), 8 × 8 QFN (ML), 5 × 5 UQFN (MV)	Temp*	
PIC18F45K20	R	40	36	PIC18	32 KB 16 Kw	RW	1536	256	1.8V- 3.6V	64 MHz	16 MHz, 31 kHz	-	14	-	14	-	2	-	-	-	1	1	-	-	-	-	1	3	-	1	1	-	-	-	PBOR	✓	-	-	\$1.61	PDIP (P), TQFP (PT), 8 × 8 QFN (ML), 5 × 5 UQFN (MV)		
PIC16F884	R	40	36	MR	7 KB 4 Kw	RW	256	256	2V- 5.5V	20 MHz	8 MHz, 31 kHz	-	14	-	14	-	2	-	-	-	1	1	-	-	-	-	2	1	-	1	1	-	-	-	BOR	SW0	✓	✓	\$1.63	PDIP (P), TQFP (PT), 8 × 8 QFN (ML)		
PIC18F44J10	R	40	32	PIC18	16 KB 8 Kw	RW	1024	-	2V- 3.6V	40 MHz	31 kHz	-	13	-	13	-	2	-	-	-	1	1	-	-	-	-	1	2	-	1	2	-	-	-	BOR	-	-	-	\$1.67	PDIP (P), TQFP (PT), QFN (ML)		
PIC18F43K22	R	40	36	PIC18	8 KB 4 Kw	RW	512	256	1.8V- 5.5V	64 MHz	16 MHz, 31 kHz	-	28	-	28	-	2	✓	-	-	-	1	1	-	-	-	-	1	3	-	2	2	-	-	-	PBOR	P	P	P	\$1.68	PDIP (P), TQFP (PT), 8 × 8 QFN (ML), 5 × 5 UQFN (MV)	Temp*
PIC18F44K22	R	40	36	PIC18	16 KB 8 Kw	RW	768	256	1.8V- 5.5V	64 MHz	16 MHz, 31 kHz	-	28	-	28	-	2	✓	-	-	-	1	1	-	-	-	-	1	3	-	2	2	-	-	-	PBOR	P	P	P	\$1.75	PDIP (P), TQFP (PT), 8 × 8 QFN (ML), 5 × 5 UQFN (MV)	Temp*
PIC16F887	R	40	36	MR	14 KB 8 Kw	RW	368	256	2V- 5.5V	20 MHz	8 MHz, 31 kHz	-	14	-	14	-	2	-	-	-	1	1	-	-	-	-	2	1	-	1	1	-	-	-	BOR	SW0	✓	✓	\$1.78	PDIP (P), TQFP (PT), 8 × 8 QFN (ML)		
PIC18F45J10	R	40	32	PIC18	32 KB 16 Kw	RW	1024	-	2V- 3.6V	40 MHz	31 kHz	-	13	-	13	-	2	-	-	-	1	1	-	-	-	-	1	2	-	1	2	-	-	-	BOR	-	-	-	\$1.81	PDIP (P), TQFP (PT), QFN (ML)		
PIC18F46K20	R	40	36	PIC18	64 KB 32 Kw	RW	3936	1024	1.8V- 3.6V	64 MHz	16 MHz, 31 kHz	-	14	-	14	-	2	-	-	-	1	1	-	-	-	-	1	3	-	1	1	-	-	-	PBOR	✓	-	-	\$1.82	PDIP (P), TQFP (PT), 8 × 8 QFN (ML)		
PIC18F45K22	R	40	36	PIC18	32 KB 16 Kw	RW	1536	256	1.8V- 5.5V	64 MHz	16 MHz, 31 kHz	-	28	-	28	-	2	✓	-	-	-	2	2	-	-	-	3	4	-	2	2	-	-	-	PBOR	✓	✓	✓	\$1.89	PDIP (P), TQFP (PT), 8 × 8 QFN (ML), 5 × 5 UQFN (MV)	Temp*	
PIC18F44J11	R	40	34	PIC18	16 KB 8 Kw	RW	3800	-	2V- 3.6V	48 MHz	8 MHz, 31 kHz	-	13	-	13	-	2	✓	-	-	-	2	-	-	-	-	2	3	-	2	2	-	-	-	BOR	SW0	-	-	\$1.95	TQFP (PT), QFN (ML)	Peripheral Pin Select, Deep Sleep Mode	
PIC18F45K50	R	40	36	PIC18	32KB 16 Kw	RW	2K	256	1.8V- 5.5V	48 MHz	48 MHz	-	25	-	25	-	2	✓	-	-	-	1	1	-	-	-	2	2	-	1	1	-	✓	-	BOR	-	-	-	\$1.99	PDIP (P), TQFP (PT), 5 × 5 UQFN (MV)	Crystal Free USB	
PIC18F45J11	R	40	34	PIC18	32 KB 16 Kw	RW	3800	-	2V- 3.6V	48 MHz	8 MHz, 31 kHz	-	13	-	13	-	2	✓	-	-	-	2	-	-	-	-	2	3	-	2	2	-	-	-	BOR	SW0	-	-	\$2.09	TQFP (PT), QFN (ML)	Peripheral Pin Select, Deep Sleep Mode	
PIC18F44J50	R	40	34	PIC18	16 KB 8 Kw	RW	3800	-	2V- 3.6V	48 MHz	8 MHz, 31 kHz	-	13	-	13	-	2	✓	-	-	-	2	-	-	-	-	2	3	-	2	2	-	✓	-	BOR	SW0	-	-	\$2.16	TQFP (PT), QFN (ML)	Peripheral Pin Select, Deep Sleep Mode	
PIC18F45K80	R	40	35	PIC18	32 KB 16 Kw	RW	3648	1024	1.8V- 5.5V	64 MHz	8 MHz, 31 kHz	-	11	-	-	11	2	✓	-	-	-	4	1	-	-	-	2	3	-	2	1	-	-	✓	PBOR	✓	✓	✓	\$2.17	PDIP (P), TQFP (PT), QFN (ML)	Deep Sleep Mode	
PIC18F46K22	R	40	36	PIC18	64 KB 32 Kw	RW	3896	1024	1.8V- 5.5V	64 MHz	16 MHz, 31 kHz	-	28	-	28	-	2	✓	-	-	-	2	2	-	-	-	3	4	-	2	2	-	-	-	PBOR	✓	✓	✓	\$2.17	PDIP (P), TQFP (PT), 8 × 8 QFN (ML), 5 × 5 UQFN (MV)	Temp*	
PIC18F45J50	R	40	34	PIC18	32 KB 16 Kw	RW	3800	-	2V- 3.6V	48 MHz	8 MHz, 31 kHz	-	13	-	13	-	2	✓	-	-	-	2	-	-	-	-	2	3	-	2	2	-	✓	-	BOR	SW0	-	-	\$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	-	-	-	-	2	3	-	2	2	-	-	-	BOR	SW0	-	-	\$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	
PIC18F46J50	R	40	34	PIC18	64 KB 32 Kw	RW	3800	-	2V- 3.6V	48 MHz	8 MHz, 31 kHz	-	13	-	13	-	2	✓	-	-	-	2	-	-	-	-	2	3	-	2	2	-	✓	-	BOR	SW0	-	-	\$2.58	PDIP (P), TQFP (PT), QFN (ML)	Peripheral Pin Select, Deep Sleep Mode	
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	

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			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	Maximum Speed	Internal Oscillator	LCD Segments	mTouch™ Channels	8-bit ADC	16-bit ADC	12-bit ADC	Comparators	Charge Time Measurement Unit	Op Amp	DAC (5b/8b)	PWM	CCP	ECCP	CWG/COG	NCO	PSMC	CLC	8-bit Timer			16-bit Timer	AUSART	EUSART	I ² C™/SPI	Ethernet (MAC/PHY)	USB 2.0 Device	CAN	BOR/PBOR	PLVD	SR-Latch	Timer 1 Gate
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	SW◇	-	-	\$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	SW◇	-	-	\$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	SW◇	-	-	\$2.63	TQFP (PT)		
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	
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	-	-	-	-	4	4	-	2	2	-	-	-	BOR	✓	-	-	\$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	-	✓	-	BOR	✓	-	-	\$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	-	-	-	BOR	✓	-	-	\$2.90	TQFP (PT)		
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	-	-	-	-	1	3	1	1	1	-	-	-	BOR	✓	-	-	\$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	-	-	-	BOR	✓	-	-	\$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	-	-	-	BOR	✓	-	-	\$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	-	-	-	BOR	✓	-	-	\$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	-	✓	-	BOR	✓	-	-	\$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	-	-	-	BOR	✓	-	-	\$3.19	TQFP (PT)		
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	-	-	-	BOR	✓	-	-	\$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	-	-	-	-	1	3	1	1	1	-	-	-	BOR	✓	-	-	\$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	-	-	-	BOR	✓	-	-	\$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	-	✓	-	BOR	✓	-	-	\$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	-	-	-	BOR	✓	-	-	\$3.63	TQFP (PT)	Integrated MAC, 10 Base 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	-	-	-	BOR	✓	-	-	\$3.92	TQFP (PT)	Integrated MAC, 10 Base 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	-	-	-	BOR	✓	-	-	\$4.12	TQFP (PT)	2 × 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	-	-	-	BOR	✓	-	-	\$4.35	TQFP (PT)	2 × 24-bit ADC, RTCC	
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, 10 Base T PHY
PIC18F97J60	R	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, 10 Base 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 (NF)	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 MSPS	Comparators	LCD Segments	Graphics Controller	Output Compare/PWM	Input Capture	16-bit Timer ⁽²⁾	Digital Communication			USB 2.0 (Peripheral, Host, OTC)	PMP	RTCC/RTC	PPS	5-ku Pricing	System Mgmt. Features
14-Pin	PIC24F04KL100	R	12	PIC24	4	512	AN1095 ⁽¹⁾	-	1.8V-3.6V	16	8 MHz, 32 kHz	-	-	-	1	-	-	2	2	2	1 UART, 1 SPI/ [†] IC [™] (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, 1 IC	-	-	-	-	\$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	2	1 UART, 1 SPI/ [†] IC (MSSP)	-	-	-	-	\$1.25	BOR, HLVD, POR, PWRT, WDT, XLP	PDIP (P), TSSOP (ST)
20-Pin	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/ [†] IC (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, 1 IC	-	-	-	-	\$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/ [†] IC (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/ [†] IC (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/ [†] IC (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/ [†] IC (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 IC	-	-	✓	-	\$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 IC	-	-	✓	-	\$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 IC	-	-	✓	✓	\$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 IC	-	-	✓	✓	\$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 IC	-	-	✓	-	\$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 IC	-	-	✓	-	\$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/ [†] IC (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/ [†] IC (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/ [†] IC (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 IC	-	-	✓	-	\$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 IC	-	-	✓	-	\$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 IC	-	-	✓	✓	\$1.68	BOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML), VTLA (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 IC	-	-	✓	✓	\$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 IC	-	-	✓	✓	\$1.73	BOR, POR, WDT	PDIP (P), SOIC (SO), SSOP (SS), QFN (MQL), VTLA (TL)
	PIC24FJ16GA002	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 IC	-	✓	✓	✓	\$1.74	BOR, LVD, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)
	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 IC	-	✓	✓	✓	\$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 IC	-	-	✓	-	\$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 IC	-	-	✓	-	\$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 IC	-	✓	✓	✓	\$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 IC	✓	✓	✓	✓	\$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 IC	-	✓	✓	✓	\$2.48	BOR, LVD, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (ML)
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 IC	-	✓	✓	✓	\$2.65	BOR, LVD, POR, WDT, Deep Sleep, XLP	SPDIP (SP), SOIC (SO), QFN (ML)	
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 IC	✓	✓	✓	✓	\$2.86	BOR, LVD, POR, WDT, Deep Sleep, XLP	SPDIP (SP), SOIC (SO), 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)

Product	Released (R) Not Released (NR)	I/O Pins	Core	Memory				Voltage Range	Operating Speed		Analog Sensing & Measurement					Communication					5-ku Pricing†	Monitors					
				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 MSPS	Comparators	LCD Segments	Graphics Controller	Output Compare/PWM	Input Capture	16-bit Timer ⁽²⁾	Digital Communication		USB 2.0 (Peripheral, Host, OTG)	PMP	RTCC/CRC	PPS	System Mgmt. Features	Packages (Designator)
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 I ² C™	-	✓	✓	✓	\$1.93	BOR, LVD, POR, WDT	TQFP (PT), QFN (ML)
PIC24FJ32MC104	R	35	PIC24	32	2048	AN1095 ⁽¹⁾	-	3V-3.6V	16	7.37 MHz, 32 kHz	✓	14	-	3	-	-	8	3	5	1 UART, 1 SPI, 1 I ² C	-	✓	✓	✓	\$2.02	BOR POR, WDT	TQFP (PT), TLA, QFN (ML)
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 I ² C	-	✓	✓	✓	\$2.30	BOR, LVD, POR, WDT	TQFP (PT), QFN (ML)
PIC24F16KA304 ^(MPL)	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 I ² C	-	-	✓	-	\$2.30	PWRT, HLVD, POR, OST, WDT	TQFP (PT), QFN (ML), UQFN (MV)
PIC24FJ32GA104 ^(MPL)	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 I ² C	-	✓	✓	✓	\$2.44	BOR, LVD, POR, WDT, Deep Sleep, XLP	TQFP (PT), QFN (ML)
PIC24F32KA304 ^(MPL)	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 I ² C	-	-	✓	-	\$2.44	PWRT, HLVD, POR, OST, WDT	TQFP (PT), QFN (ML), UQFN (MV)
PIC24FJ32GB004 ^(MPL)	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 I ² C	✓	✓	✓	✓	\$2.65	BOR, LVD, POR, WDT, Deep Sleep, XLP	TQFP (PT), QFN (ML)
PIC24FJ64GA004	R	35	PIC24	64	8192	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	-	13	-	2	-	-	5	5	5	2 UART, 2 SPI, 2 I ² C	-	✓	✓	✓	\$2.72	BOR, LVD, POR, WDT	TQFP (PT), QFN (ML)
PIC24FJ64GA104 ^(MPL)	R	35	PIC24	64	8192	AN1095 ⁽¹⁾	-	2V-3.6V	16	8 MHz, 32 kHz	✓	13	-	3	-	-	5	5	5	2 UART, 2 SPI, 2 I ² C	-	✓	✓	✓	\$2.86	BOR, LVD, POR, WDT, Deep Sleep, XLP	TQFP (PT), QFN (ML)
PIC24FJ64GB004 ^(MPL)	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 I ² C	✓	✓	✓	✓	\$3.07	BOR, LVD, POR, WDT, Deep Sleep, XLP	TQFP (PT), QFN (ML)
PIC24FJ64GA306 ^(MPL)	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 ^(MPL)	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)
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)
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)
PIC24FJ64GA308 ^(MPL)	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 ^(MPL)	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)

* 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	Operating Speed		Analog Sensing & Measurement					Communication					5 ku Pricing†	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 MSPS	Comparators	LCD Segments	Graphics Controller	Output Compare/PWM	Input Capture	16-bit Timer ²⁾	Digital Communication		USB 2.0 (Peripheral, Host, OTG)	PMP		RTCC/CRC	PPS	System Mgmt. Features	Monitors
80-Pin (Cont.)	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)
100-Pin	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 ² 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 ² 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 ² 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 ² C	–	✓	✓	✓	\$3.79	BOR, LVD, POR, WDT	TQFP (PT), BGA121 (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 ² C	–	✓	✓	–	\$3.81	BOR, POR, WDT	TQFP (PT)
	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 ² C	–	✓	✓	✓	\$4.03	BOR, LVD, POR, WDT	TQFP (PT), BGA121 (BG)
	PIC24FJ64GB110	R	84	PIC24	64	16384	AN1095 ¹⁾	–	2V–3.6V	16	8 MHz, 32 kHz	✓	16	–	3	–	–	9	9	5	4 UART, 3 SPI, 3 I ² C	✓	✓	✓	✓	\$4.12	BOR, LVD, POR, WDT	TQFP (PT), BGA121 (BG)
	PIC24FJ128GB110	R	84	PIC24	128	16384	AN1095 ¹⁾	–	2V–3.6V	16	16 MHz, 32 kHz	✓	16	–	3	–	–	9	9	5	4 UART, 3 SPI, 3 I ² C	✓	✓	✓	✓	\$4.41	BOR, LVD, POR, WDT	TQFP (PT), BGA121 (BG)
	PIC24FJ256GA110	R	85	PIC24	256	16384	AN1095 ¹⁾	–	2V–3.6V	16	8 MHz, 32 kHz	✓	16	–	3	–	–	9	9	5	4 UART, 3 SPI, 3 I ² C	–	✓	✓	✓	\$4.45	BOR, LVD, POR, WDT	TQFP (PT), BGA121 (BG)
	PIC24FJ128GB210	R	84	PIC24	128	98304	AN1095 ¹⁾	–	2.2V–3.6V	16	8 MHz, 32 kHz	✓	24	–	3	–	–	9	9	5	4 UART, 3 SPI, 3 I ² C	✓	✓	✓	✓	\$4.79	BOR, LVD, POR, WDT	TQFP (PT), BGA121 (BG)
	PIC24FJ128DA110	R	84	PIC24	128	24576	AN1095 ¹⁾	–	2.2V–3.6V	16	8 MHz, 32 kHz	✓	24	–	3	–	✓	9	9	5	4 UART, 3 SPI, 3 I ² C	✓	✓	✓	✓	\$4.83	BOR, LVD, POR, WDT	TQFP (PT), BGA121 (BG)
	PIC24FJ256GB110	R	84	PIC24	256	16384	AN1095 ¹⁾	–	2V–3.6V	16	8 MHz, 32 kHz	✓	16	–	3	–	–	9	9	5	4 UART, 3 SPI, 3 I ² C	✓	✓	✓	✓	\$4.83	BOR, LVD, POR, WDT	TQFP (PT), BGA121 (BG)
	PIC24FJ256GB210	R	84	PIC24	256	98304	AN1095 ¹⁾	–	2.2V–3.6V	16	8 MHz, 32 kHz	✓	24	–	3	–	–	9	9	5	4 UART, 3 SPI, 3 I ² C	✓	✓	✓	✓	\$5.14	BOR, LVD, POR, WDT	TQFP (PT), BGA121 (BG)
	PIC24FJ256DA110	R	84	PIC24	256	24576	AN1095 ¹⁾	–	2.2V–3.6V	16	8 MHz, 32 kHz	✓	24	–	3	–	✓	9	9	5	4 UART, 3 SPI, 3 I ² C	✓	✓	✓	✓	\$5.18	BOR, LVD, POR, WDT	TQFP (PT), BGA121 (BG)
	PIC24FJ128DA210	R	84	PIC24	128	98304	AN1095 ¹⁾	–	2.2V–3.6V	16	8 MHz, 32 kHz	✓	24	–	3	–	✓	9	9	5	4 UART, 3 SPI, 3 I ² C	✓	✓	✓	✓	\$5.25	BOR, LVD, POR, WDT	TQFP (PT), BGA121 (BG)
PIC24FJ256DA210	R	84	PIC24	256	98304	AN1095 ¹⁾	–	2.2V–3.6V	16	8 MHz, 32 kHz	✓	24	–	3	–	✓	9	9	5	4 UART, 3 SPI, 3 I ² 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".

‡ Note 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	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 MSPS	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 [†]	System Mgmt. Features
18-Pin	PIC24HJ12GP201	R	13	PIC24	12	1024	AN1095 ⁽¹⁾	-	3V-3.6V	40	7.37 MHz, 32 kHz	-	-	6 ch	-	-	2	-	-	4	3	1 UART, 1 SPI, 1 I ² C™	-	-	-	-	✓	\$2.09	PBOR, POR, WDT	PDIP (P), SOIC (SO)
28-Pin	PIC24EP32MC202	R	21	PIC24	32	4096	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 ² C	-	-	-	✓	✓	\$1.89	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	PIC24EP32GP202	R	21	PIC24	32	4096	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	-	6 ch	1+2†	2	4	0	0	4	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	✓	\$1.89	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	PIC24HJ12GP202	R	21	PIC24	12	1024	AN1095 ⁽¹⁾	-	3V-3.6V	40	7.37 MHz, 32 kHz	-	-	10 ch	-	-	2	-	-	4	3	1 UART, 1 SPI, 1 I ² C	-	-	-	-	✓	\$2.24	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	PIC24HJ32GP202*	R	21	PIC24	32	2048	AN1095 ⁽¹⁾	-	3V-3.6V	40	7.37 MHz, 32 kHz	-	-	10 ch	-	-	2	-	-	4	3	1 UART, 1 SPI, 1 I ² C	-	-	-	-	✓	\$2.40	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MM)
	PIC24EP512MC202	NR	21	PIC24	512	49152	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 ² C	-	-	-	✓	✓	\$2.45	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	PIC24EP512GP202	NR	21	PIC24	512	49152	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	-	6 ch	1+2†	2	4	0	0	4	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	✓	\$2.45	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	PIC24EP64GP202	R	21	PIC24	64	8192	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	-	-	-	✓	✓	\$2.45	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	PIC24EP64MC202	R	21	PIC24	64	8192	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	-	6 ch	1+2†	2	4	6	1	4	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	✓	\$2.45	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	PIC24EP128MC202	R	21	PIC24	128	16384	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 ² C	-	-	-	✓	✓	\$2.66	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	PIC24EP128GP202	R	21	PIC24	128	16384	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	-	6 ch	1+2†	2	4	0	0	4	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	✓	\$2.66	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	PIC24HJ32GP302	R	21	PIC24	32	4096	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	-	10 ch	2	-	4	-	-	4	5	2 UART, 2 SPI, 1 I ² C	-	-	✓	✓	✓	\$2.76	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MM)
	PIC24HJ64GP202	R	21	PIC24	64	4096	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	-	10 ch	2	-	4	-	-	4	5	2 UART, 2 SPI, 1 I ² C	-	-	✓	✓	✓	\$3.12	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MM)
	PIC24EP256MC202	R	21	PIC24	256	32768	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 ² C	-	-	-	✓	✓	\$3.14	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	PIC24EP256GP202	R	21	PIC24	256	32768	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	-	6 ch	1+2†	2	4	0	0	4	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	✓	\$3.14	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
PIC24EP256MC202	R	21	PIC24	256	32768	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	-	6 ch	1+2†	2	4	6	1	4	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	✓	\$3.14	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)	
PIC24HJ64GP502*	R	21	PIC24	64	4096	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	-	10 ch	2	-	4	-	-	4	5	2 UART, 2 SPI, 1 I ² C	1	-	✓	✓	✓	\$3.33	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MM)	
PIC24HJ128GP202	R	21	PIC24	128	8192	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	-	10 ch	2	-	4	-	-	4	5	2 UART, 2 SPI, 1 I ² C	-	-	✓	✓	✓	\$3.44	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MM)	
PIC24HJ128GP502*	R	21	PIC24	128	8192	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	-	10 ch	2	-	4	-	-	4	5	2 UART, 2 SPI, 1 I ² C	1	-	✓	✓	✓	\$3.65	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MM)	
36-Pin	PIC24EP32MC203	R	25	PIC24	32	4096	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 I ² C	-	-	-	✓	✓	\$1.96	PBOR, POR, WDT	VTLA (TL)
PIC24EP32GP203	R	25	PIC24	32	4096	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	-	8 ch	1+2†	3	4	0	0	4	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	✓	\$1.96	PBOR, POR, WDT	VTLA (TL)	
PIC24EP64GP203	R	25	PIC24	64	8192	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	-	-	-	✓	✓	\$2.52	PBOR, POR, WDT	VTLA (TL)	
PIC24EP64MC203	R	25	PIC24	64	8192	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 I ² C	-	-	-	✓	✓	\$2.52	PBOR, POR, WDT	VTLA (TL)	
44-Pin	PIC24EP32GP204	R	35	PIC24	32	4096	AN1095 ⁽¹⁾	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	-	9 ch	1+3†	3	4	0	0	4	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	✓	\$2.03	PBOR, POR, WDT	TQFP (PT), QFN (ML), VTLA (TL)
	PIC24EP32MC204	R	35	PIC24	32	4096	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 I ² C	-	-	-	✓	✓	\$2.03	PBOR, POR, WDT	TQFP (PT), QFN (ML), VTLA (TL)
	PIC24HJ16GP304*	R	35	PIC24	16	2048	AN1095 ⁽¹⁾	-	3V-3.6V	40	7.37 MHz, 32 kHz	-	-	13 ch	-	-	2	-	-	4	3	1 UART, 1 SPI, 1 I ² C	-	-	-	✓	✓	\$2.42	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	PIC24HJ32GP204*	R	35	PIC24	32	2048	AN1095 ⁽¹⁾	-	3V-3.6V	40	7.37 MHz, 32 kHz	-	-	13 ch	-	-	2	-	-	4	3	1 UART, 1 SPI, 1 I ² C	-	-	-	✓	✓	\$2.49	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	PIC24EP512MC204	NR	35	PIC24	512	49152	AN1095 ⁽¹⁾	-	3V-3.6V	40	7.37 MHz, 32 kHz	✓	-	9 ch	1+3†	3	10	6	1	4	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	✓	\$2.59	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	PIC24EP512GP204	NR	35	PIC24	512	49152	AN1095 ⁽¹⁾	-	3V-3.6V	40	7.37 MHz, 32 kHz	✓	-	9 ch	1+3†	3	4	0	0	4	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	✓	\$2.59	PBOR, POR, WDT	TQFP (PT), QFN (ML)
PIC24EP64GP204	R	35	PIC24	64	8192	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	-	-	-	✓	✓	\$2.59	PBOR, POR, WDT	TQFP (PT), QFN (ML), VTLA (TL)	
PIC24EP64MC204	R	35	PIC24	64	8192	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 I ² C	-	-	-	✓	✓	\$2.59	PBOR, POR, WDT	TQFP (PT), QFN (ML), VTLA (TL)	

* 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					5 ku Pricing†	Monitors								
				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 MSPS	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	System Mgmt. Features	Packages (Designator)	
44-Pin (Cont.)	PIC24EP128MC204	R	35	PIC24	128	16384	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 I ² C™	–	–	–	✓	✓	\$2.80	PBOR, POR, WDT	TQFP (PT), QFN (ML), VTLA (TL)
	PIC24EP128GP204	R	35	PIC24	128	16384	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	–	9 ch	1+3†	3	4	0	0	4	5	2 UART, 2 SPI, 1 I ² C	–	–	–	✓	✓	\$2.80	PBOR, POR, WDT	TQFP (PT), QFN (ML), VTLA (TL)
	PIC24HJ32GP304	R	35	PIC24	32	4096	AN1095 ⁽¹⁾	8	3V–3.6V	40	7.37 MHz, 32 kHz	–	–	13 ch	2	–	4	–	–	4	5	2 UART, 2 SPI, 1 I ² C	–	–	✓	✓	✓	\$2.82	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	PIC24EP256MC204	R	35	PIC24	256	32768	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 I ² C	–	–	–	✓	✓	\$3.28	PBOR, POR, WDT	TQFP (PT), QFN (ML), VTLA (TL)
	PIC24EP256GP204	R	35	PIC24	256	32768	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	–	9 ch	1+3†	3	4	0	0	4	5	2 UART, 2 SPI, 1 I ² C	–	–	–	✓	✓	\$3.28	PBOR, POR, WDT	TQFP (PT), QFN (ML), VTLA (TL)
	PIC24EP256MC204	R	35	PIC24	256	32768	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	–	9 ch	1+3†	3	4	6	1	4	5	2 UART, 2 SPI, 1 I ² C	–	–	–	✓	✓	\$3.28	PBOR, POR, WDT	TQFP (PT), QFN (ML), VTLA (TL)
	PIC24HJ64GP204	R	35	PIC24	64	8192	AN1095 ⁽¹⁾	8	3V–3.6V	40	7.37 MHz, 32 kHz	–	–	13 ch	2	–	4	–	–	4	5	2 UART, 2 SPI, 1 I ² C	–	–	✓	✓	✓	\$3.29	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	PIC24HJ64GP504*	R	35	PIC24	64	4096	AN1095 ⁽¹⁾	8	3V–3.6V	40	7.37 MHz, 32 kHz	–	–	13 ch	2	–	4	–	–	4	5	2 UART, 2 SPI, 1 I ² C	1	–	✓	✓	✓	\$3.58	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	PIC24HJ128GP204	R	35	PIC24	128	8192	AN1095 ⁽¹⁾	8	3V–3.6V	40	7.37 MHz, 32 kHz	–	–	13 ch	2	–	4	–	–	4	5	2 UART, 2 SPI, 1 I ² C	–	–	✓	✓	✓	\$3.58	PBOR, POR, WDT	TQFP (PT), QFN (ML)
PIC24HJ128GP504*	R	35	PIC24	128	8192	AN1095 ⁽¹⁾	8	3V–3.6V	40	7.37 MHz, 32 kHz	–	–	13 ch	2	–	4	–	–	4	5	2 UART, 2 SPI, 1 I ² C	1	–	✓	✓	✓	\$3.88	PBOR, POR, WDT	TQFP (PT), QFN (ML)	
64-Pin	PIC24EP512MC206	NR	53	PIC24	512	49152	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 I ² C	–	–	–	✓	✓	\$2.73	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	PIC24EP512GP206	NR	53	PIC24	512	49152	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	–	16 ch	1+3†	3	4	0	0	4	5	2 UART, 2 SPI, 1 I ² C	–	–	–	✓	✓	\$2.73	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	PIC24EP64GP206	R	53	PIC24	64	8192	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	–	16 ch	1+3†	3	4	0	–	4	5	2 UART, 2 SPI, 1 I ² C	–	–	–	✓	✓	\$2.73	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	PIC24EP64MC206	R	53	PIC24	64	8192	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 I ² C	–	–	–	✓	✓	\$2.73	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	PIC24EP128MC206	R	53	PIC24	128	16384	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 I ² C	–	–	–	✓	✓	\$2.94	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	PIC24EP128GP206	R	53	PIC24	128	16384	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	–	16 ch	1+3†	3	4	0	0	4	5	2 UART, 2 SPI, 1 I ² C	–	–	–	✓	✓	\$2.94	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	PIC24HJ64GP206A	R	53	PIC24	64	8192	AN1095 ⁽¹⁾	8	3V–3.6V	40	7.37 MHz, 32 kHz	–	–	18 ch	–	–	8	–	–	8	9	2 UART, 2 SPI, 1 I ² C	–	–	–	–	–	\$3.39	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	PIC24EP256MC206	R	53	PIC24	256	32768	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	–	16 ch	1+3†	3	4	6	1	4	5	2 UART, 2 SPI, 1 I ² C	–	–	–	✓	✓	\$3.42	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	PIC24EP256GP206	R	53	PIC24	256	32768	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	–	16 ch	1+3†	3	10	0	0	4	5	2 UART, 2 SPI, 1 I ² C	–	–	–	✓	✓	\$3.42	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	PIC24EP256GP206	R	53	PIC24	256	32768	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	–	–	–	✓	✓	\$3.42	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	PIC24EP256MC206	R	53	PIC24	256	32768	AN1095 ⁽¹⁾	4	3V–3.6V	70	7.37 MHz, 32 kHz	✓	–	16 ch	1+3†	3	4	6	1	4	5	2 UART, 2 SPI, 1 I ² C	–	–	–	✓	✓	\$3.42	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	PIC24HJ64GP506A	R	53	PIC24	64	8192	AN1095 ⁽¹⁾	8	3V–3.6V	40	7.37 MHz, 32 kHz	–	–	18 ch	–	–	8	–	–	8	9	2 UART, 2 SPI, 2 I ² C	1	–	–	–	–	\$3.60	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	PIC24HJ128GP206A	R	53	PIC24	128	8192	AN1095 ⁽¹⁾	8	3V–3.6V	40	7.37 MHz, 32 kHz	–	–	18 ch	–	–	8	–	–	8	9	2 UART, 2 SPI, 1 I ² C	–	–	–	–	–	\$3.63	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	PIC24HJ128GP306A	R	53	PIC24	128	16384	AN1095 ⁽¹⁾	8	3V–3.6V	40	7.37 MHz, 32 kHz	–	–	18 ch	–	–	8	–	–	8	9	2 UART, 2 SPI, 2 I ² C	–	–	–	–	–	\$3.79	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	PIC24HJ128GP506A*	R	53	PIC24	128	8192	AN1095 ⁽¹⁾	8	3V–3.6V	40	7.37 MHz, 32 kHz	–	–	18 ch	–	–	8	–	–	8	9	2 UART, 2 SPI, 2 I ² C	1	–	–	–	–	\$3.85	PBOR, POR, WDT	TQFP (PT), QFN (MR)
PIC24HJ256GP206A*	R	53	PIC24	256	16384	AN1095 ⁽¹⁾	8	3V–3.6V	40	7.37 MHz, 32 kHz	–	–	18 ch	–	–	8	–	–	8	9	2 UART, 2 SPI, 2 I ² C	–	–	–	–	–	\$4.05	PBOR, POR, WDT	TQFP (PT, PF)	
PIC24EP512GP806	NR	53	PIC24	536	53248	AN1095	15	3V–3.6V	70	7.37 MHz, 32 kHz	–	–	24 ch, 2A/D	3	–	16	–	–	16	9	4 UART, 2 SPI, 2 I ² C	2	–	✓	✓	✓	\$5.60	PBOR, POR, WDT	TQFP (PT), QFN (MR)	
100-Pin	PIC24HJ64GP210A	R	85	PIC24	64	8192	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	–	–	–	–	–	\$3.88	PBOR, POR, WDT	TQFP (PT, PF)
	PIC24HJ64GP510A	R	85	PIC24	64	8192	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	–	–	–	–	\$4.06	PBOR, POR, WDT	TQFP (PT, PF)
	PIC24HJ128GP210A	R	85	PIC24	128	8192	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	–	–	–	–	–	\$4.14	PBOR, POR, WDT	TQFP (PT, PF)
	PIC24HJ128GP310A	R	85	PIC24	128	16384	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	–	–	–	–	–	\$4.26	PBOR, POR, WDT	TQFP (PT, PF)
	PIC24HJ128GP510A*	R	85	PIC24	128	8192	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	–	–	–	–	\$4.31	PBOR, POR, WDT	TQFP (PT, PF)
	PIC24HJ256GP210A	R	85	PIC24	256	16384	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	–	–	–	–	–	\$4.63	PBOR, POR, WDT	TQFP (PT, PF)
	PIC24HJ256GP610A*	R	85	PIC24	256	16384	AN1095 ⁽¹⁾	8	3V–3.6V	40	7.37 MHz, 32 kHz	–	–	2 ADC 32 ch	–	–	8	–	–	8	9	2 UART, 2 SPI, 2 I ² C	2	–	–	–	–	\$5.08	PBOR, POR, WDT	TQFP (PT, PF)
	PIC24EP256GU810	R	83	PIC24	280	28672	AN1095 ⁽¹⁾	15	3V–3.6V	60	7.37 MHz, 32 kHz	–	–	2 ADC 32 ch	3	–	16	–	–	16	9	4 UART, 4 SPI, 2 I ² C	2	1	✓	✓	✓	\$5.70	BOR, POR, WDT	TQFP (PT, PF)
PIC24EP512GU810	R	83	PIC24	536	53248	AN1095 ⁽¹⁾	15	3V–3.6V	60	7.37 MHz, 32 kHz	–	–	2 ADC 32 ch	3	–	16	–	–	16	9	4 UART, 4 SPI, 2 I ² C	2	1	✓	✓	✓	\$6.37	BOR, POR, WDT	TQFP (PT, PF)	
144-Pin	PIC24EP256GU814	R	122	PIC24	280	28672	AN1095 ⁽¹⁾	15	3V–3.6V	60	7.37 MHz, 32 kHz	–	–	2 ADC 32 ch	3	–	16	–	–	16	9	4 UART, 4 SPI, 2 I ² C	2	1	✓	✓	✓	\$6.31	BOR, POR, WDT	TQFP (PH), LQFP (PL)
	PIC24EP512GU814	R	122	PIC24	536	53248	AN1095 ⁽¹⁾	15	3V–3.6V	60	7.37 MHz, 32 kHz	–	–	2 ADC 32 ch	3	–	16	–	–	16	9	4 UART, 4 SPI, 2 I ² C	2	1	✓	✓	✓	\$6.99	BOR, POR, WDT	TQFP (PH), LQFP (PL)

* 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.

32-BIT PIC32 MICROCONTROLLERS

Product	Released (R) Not Released (NF)	I/O Pins	Core	Memory			DMA Channels General/Dedicated	Voltage Range	Operating Speed		Charge Time Measurement Unit	Analog		IC/OC/PWM	Timers 16-/32-bit	Communication						PMP	RTCC	Peripheral Pin Select (PPS)	5 kV Pricing†	Monitors	Packages (Designator)	
				Flash KB + Boot Flash	Data RAM (B)	EEPROM			Maximum Speed (MHz)	Internal Oscillator		ADC 10-bit 1,000 Isps	Comparators			SP/FS	I ² C™	UARTs	FS USB	Ethernet	CAN							System Mgmt. Features
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	2	-	-	-	✓	✓	✓	\$1.65	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOC, QFN (ML)	
PIC32MX210F016B	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	-	-	-	✓	✓	✓	\$1.76	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOC, QFN (ML)
PIC32MX120F032B	R	21	PIC32	32 + 3	8	AN1095	4/0	2.3V-3.6V	40	8 MHz, 32 KHz	✓	10 ch	3	5/5/5	5/2	2/2	2	2	-	-	-	✓	✓	✓	\$1.85	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOC, QFN (ML)	
PIC32MX220F032B	R	21	PIC32	32 + 3	8	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	-	-	-	✓	✓	✓	\$1.95	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOC, 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	-	-	-	✓	✓	✓	\$2.24	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOC, QFN (ML)	
PIC32MX150F128B	R	21	PIC32	128 + 3	32	AN1095	4/0	2.3V-3.6V	40	8 MHz, 32 KHz	✓	10 ch	3	5/5/5	5/2	2/2	2	2	-	-	-	✓	✓	✓	\$2.52	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOC, 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	-	-	-	✓	✓	✓	\$2.52	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOC, QFN (ML)
PIC32MX250F128B	R	21	PIC32	128 + 3	32	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	-	-	-	✓	✓	✓	\$2.83	POR, BOR, LVD, WDT	SPDIP (SP), SOIC (SO), SSOC, 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	-	-	-	✓	✓	✓	\$1.82	POR, BOR, LVD, WDT	VTLA (TL)	
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	-	-	-	✓	✓	✓	\$1.93	POR, BOR, LVD, WDT	VTLA (TL)
PIC32MX120F032C	R	25	PIC32	32 + 3	8	AN1095	4/0	2.3V-3.6V	40	8 MHz, 32 KHz	✓	12 ch	3	5/5/5	5/2	2/2	2	2	-	-	-	✓	✓	✓	\$2.02	POR, BOR, LVD, WDT	VTLA (TL)	
PIC32MX220F032C	R	25	PIC32	32 + 3	8	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	-	-	-	✓	✓	✓	\$2.13	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	-	-	-	✓	✓	✓	\$2.52	POR, BOR, LVD, WDT	VTLA (TL)	
PIC32MX150F128C	R	25	PIC32	128 + 3	32	AN1095	4/0	2.3V-3.6V	40	8 MHz, 32 KHz	✓	12 ch	3	5/5/5	5/2	2/2	2	2	-	-	-	✓	✓	✓	\$2.69	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	-	-	-	✓	✓	✓	\$2.69	POR, BOR, LVD, WDT	VTLA (TL)
PIC32MX250F128C	R	25	PIC32	128 + 3	32	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	-	-	-	✓	✓	✓	\$2.97	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	-	-	-	✓	✓	✓	\$1.89	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR), 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	-	-	-	✓	✓	✓	\$2.00	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR), VTLA (TL)
PIC32MX120F032D	R	34	PIC32	32 + 3	8	AN1095	4/0	2.3V-3.6V	40	8 MHz, 32 KHz	✓	13 ch	3	5/5/5	5/2	2/2	2	2	-	-	-	✓	✓	✓	\$2.09	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR), VTLA (TL)	
PIC32MX220F032D	R	34	PIC32	32 + 3	8	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	-	-	-	✓	✓	✓	\$2.19	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR), 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	-	-	-	✓	✓	✓	\$2.45	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR), VTLA (TL)	
PIC32MX150F128D	R	34	PIC32	128 + 3	32	AN1095	4/0	2.3V-3.6V	40	8 MHz, 32 KHz	✓	13 ch	3	5/5/5	5/2	2/2	2	2	-	-	-	✓	✓	✓	\$2.73	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR), 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	-	-	-	✓	✓	✓	\$2.73	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR), VTLA (TL)
PIC32MX250F128D	R	34	PIC32	128 + 3	32	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	-	-	-	✓	✓	✓	\$3.01	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR), VTLA (TL)
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)	
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)
PIC32MX320F064H	R	51	PIC32	64 + 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	-	-	-	✓	✓	-	\$3.51	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)	
PIC32MX320F128H	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	-	-	-	✓	✓	-	\$3.75	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	✓	✓	-	\$3.89	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)	
PIC32MX340F128H	R	51	PIC32	128 + 12	32	AN1095 [†]	4/0	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	2/0	2	2	-	-	-	✓	✓	-	\$3.96	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)	
PIC32MX564F064H	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	✓	✓	-	\$4.10	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)	
PIC32MX440F128H	R	51	PIC32	128 + 12	32	AN1095 [†]	4/2	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	2/0	2	2	OTG	-	-	-	✓	✓	-	\$4.23	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
PIC32MX340F256H	R	51	PIC32	256 + 12	32	AN1095 [†]	4/0	2.3V-3.6V	80	8 MHz, 32 kHz	-	16 ch	2	5/5/5	5/1	2/0	2	2	-	-	-	✓	✓	-	\$4.31	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)	
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	✓	✓	-	\$4.34	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)	
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	10/100	-	-	✓	✓	-	\$4.34	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)

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

32-BIT PIC32 MICROCONTROLLERS

Product	Released (R) Not Released (NF)	I/O Pins	Core	Memory				Operating Speed				Analog		Communication							Peripherals Pin Select (PPS)	5 kV Pricing†	Monitors		Packages (Designator)			
				Flash KB + Boot Flash	Data RAM (B)	EEPROM	DMA Channels General/Dedicated	Voltage Range	Maximum Speed (MHz)	Internal Oscillator	Charge Time Measurement Unit	ADC 10-bit 1.000 ksps	Comparators	IC/OC/PWM	Timers 16-/32-bit	SPI/FS	I ² C™	UARTs	FS USB	Ethernet			CAN	PMP		RTCC	System Mgmt. Features	
64-Pin (Cont.)	PIC32MX440F256H	R	51	PIC32	256 + 12	32	AN1095 [‡]	4/2	2.3V–3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	2/0	2	2	OTG	–	–	✓	✓	–	\$4.58	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	PIC32MX664F128H	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	10/100	–	✓	✓	–	\$4.58	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	PIC32MX764F128H	R	51	PIC32	128 + 12	32	AN1095 [‡]	4/6	2.3V–3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	3/0	4	6	OTG	10/100	1	✓	✓	–	\$4.69	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	PIC32MX340F512H	R	51	PIC32	512 + 12	32	AN1095 [‡]	4/0	2.3V–3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	2/0	2	2	–	–	–	✓	✓	–	\$4.77	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	✓	✓	–	\$4.96	POR, BOR, LVD, WDT	TQFP (PT), QFN (MR)
	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	2	OTG	–	–	✓	✓	–	\$5.04	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	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	✓	✓	–	\$4.37	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	–	–	–	✓	✓	–	\$4.44	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	–	–	–	✓	✓	–	\$4.44	POR, BOR, LVD, WDT	TQFP (PT), XBGA (BG)
	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	✓	✓	–	\$4.58	POR, BOR, LVD, WDT	TQFP (PT, PF), 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	–	–	✓	✓	–	\$4.70	POR, BOR, LVD, WDT	TQFP (PT), 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	2/0	2	2	–	–	–	✓	✓	–	\$4.79	POR, BOR, LVD, WDT	TQFP (PT), XBGA (BG)
	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	✓	✓	–	\$4.82	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	–	✓	✓	–	\$4.82	POR, BOR, LVD, WDT	TQFP (PT, PF), 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	–	–	✓	✓	–	\$5.05	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	–	✓	✓	–	\$5.05	POR, BOR, LVD, WDT	TQFP (PT, PF), 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	✓	✓	–	\$5.17	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	–	–	–	✓	✓	–	\$5.25	POR, BOR, LVD, WDT	TQFP (PT), XBGA (BG)
	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)
	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	–	–	✓	✓	–	\$5.52	POR, BOR, LVD, WDT	TQFP (PT), 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	–	✓	✓	–	\$6.13	POR, BOR, LVD, WDT	TQFP (PT, PF), XBGA (BG)
	PIC32MX775F512L	R	85	PIC32	512 + 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	✓	✓	–	\$6.36	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	–	✓	✓	–	\$6.61	POR, BOR, LVD, WDT	TQFP (PT, PF), XBGA (BG)
PIC32MX795F512L	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	2	✓	✓	–	\$6.83	POR, BOR, LVD, WDT	TQFP (PT, PF), XBGA (BG), VLTA (TL)	

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

dsPIC30F DSC FAMILIES

Product	Released (R) Not Released (NR)	I/O Pins	Core	Memory			Voltage Range	Operating Speed		Analog			Input Capture	Motor Control PWM Ch	Power Supply PWM Ch	QEI	Code (FS, AC97)	16-bit Timer ¹	Communication		5 ku Pricing ²	Monitors	System Mgmt. Features	Packages (Designator)	
				Program (KB)	Data RAM (B)	EEPROM		Maximum Speed MIPS	Internal Oscillator	ADC	DAC	Comparators							Output Compare/PWM	Digital Communication					CAN
18-Pin	dsPIC30F3012	R	12	dsPIC*	24	2048	1024	2.5V-5.5V	30	7.37 MHz, 32 kHz	8 x 12-bit @ 200 (ksps)	-	-	2	2	-	-	-	3	1 UART, 1 SPI, 1 I ² C™	-	\$2.68	PBOR, LVD, POR, WDT	PDIP (P), SOIC (SO), QFN (ML)	
28-Pin	dsPIC30F2010	R	20	dsPIC	12	512	1024	2.5V-5.5V	30	7.37 MHz, 32 kHz	6 x 10-bit @ 1000 (ksps)	-	-	2	4	6	-	1	-	3	1 UART, 1 SPI, 1 I ² C	-	\$2.43	PBOR, LVD, POR, WDT	PDIP (P), SPDIP (SP), SOIC (SO), QFN (ML)
	dsPIC30F3013	R	20	dsPIC	24	2048	1024	2.5V-5.5V	30	7.37 MHz, 32 kHz	10 x 12-bit @ 200 (ksps)	-	-	2	2	-	-	-	3	2 UART, 1 SPI, 1 I ² C	-	\$2.77	PBOR, LVD, POR, WDT	SPDIP (SP), SOIC (SO), QFN (ML)	
	dsPIC30F4012	R	20	dsPIC	48	2048	1024	2.5V-5.5V	30	7.37 MHz, 32 kHz	6 x 10-bit @ 1000 (ksps)	-	-	2	4	6	-	1	-	5	1 UART, 1 SPI, 1 I ² C	1	\$3.71	PBOR, LVD, POR, WDT	SPDIP (SP), SOIC (SO), QFN (ML)
40-Pin	dsPIC30F4013	R	30	dsPIC	48	2048	1024	2.5V-5.5V	30	7.37 MHz, 32 kHz	13 x 12-bit @ 200 (ksps)	-	-	4	4	-	-	1	-	5	2 UART, 1 SPI, 1 I ² C	1	\$3.91	PBOR, LVD, POR, WDT	PDIP (P), TQFP (PT), QFN (ML)
	dsPIC30F4011	R	30	dsPIC	48	2048	1024	2.5V-5.5V	30	7.37 MHz, 32 kHz	9 x 10-bit @ 1000 (ksps)	-	-	4	4	6	-	1	-	5	2 UART, 1 SPI, 1 I ² C	1	\$4.02	PBOR, LVD, POR, WDT	PDIP (P), TQFP (PT), QFN (ML)
64-Pin	dsPIC30F5015	R	52	dsPIC	66	2048	1024	2.5V-5.5V	30	7.37 MHz, 32 kHz	16 x 10-bit @ 1000 (ksps)	-	-	4	4	8	-	1	-	5	1 UART, 2 SPI, 1 I ² C	1	\$5.08	PBOR, LVD, POR, WDT	TQFP (PT)
	dsPIC30F6011A	R	52	dsPIC	132	6144	2048	2.5V-5.5V	30	7.37 MHz, 32 kHz	16 x 12-bit @ 200 (ksps)	-	-	8	8	-	-	-	5	2 UART, 2 SPI, 1 I ² C	2	\$6.89	PBOR, LVD, POR, WDT	TQFP (PT)	
	dsPIC30F5016	R	68	dsPIC	66	2048	1024	2.5V-5.5V	30	7.37 MHz, 32 kHz	16 x 10-bit @ 1000 (ksps)	-	-	4	4	8	-	1	-	5	1 UART, 2 SPI, 1 I ² C	1	\$5.59	PBOR, LVD, POR, WDT	TQFP (PF)
80-Pin	dsPIC30F6014A	R	68	dsPIC	144	8192	4096	2.5V-5.5V	30	7.37 MHz, 32 kHz	16 x 12-bit @ 200 (ksps)	-	-	8	8	-	-	1	5	2 UART, 2 SPI, 1 I ² C	2	\$7.25	PBOR, LVD, POR, WDT	TQFP (PF)	
	dsPIC30F6010A	R	68	dsPIC	144	8192	4096	2.5V-5.5V	30	7.37 MHz, 32 kHz	16 x 10-bit @ 1000 (ksps)	-	-	8	8	8	-	1	-	5	2 UART, 2 SPI, 1 I ² C	2	\$7.36	PBOR, LVD, POR, WDT	TQFP (PF)

Note 1: Two 16-bit times can be concatenated to form a 32-bit timer.

dsPIC33 DSC GENERAL PURPOSE FAMILY

Product	Released (R) Not Released (NR)	I/O Pins	Core	Memory				Voltage Range	Operating Speed		Analog Sensing & Measurement					Input Capture	Code (FS, AC97)	16-bit Timer ²	Communication				5 ku Pricing ²	Monitors	System Mgmt. Features	Packages (Designator)		
				Program (KB)	Data RAM (B)	EEPROM	DMA #Ch		Maximum Speed MIPS	Internal Oscillator	Charge Time Measurement Unit	ADC 10/12-bit 1100/500 ksps	DAC	Comparators	Op Amps				Output Compare/PWM	Digital Communication	CAN	PMP					RTCC/CRC	PPS
18-Pin	dsPIC33FJ16GP101	R	15	dsPIC*	16	1024	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), SSOP (SS), QFN (MQL)	
	dsPIC33FJ32GP101	R	13	dsPIC	32	2048	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	PBOR, POR, WDT	PDIP (P), SOIC (SO), SSOP (SS), QFN (MQL)	
	dsPIC33FJ12GP201	R	13	dsPIC	12	1024	AN1095 ¹	-	3V-3.6V	40	7.37 MHz, 32 kHz	-	6 ch	-	-	-	2	4	-	3	1 UART, 1 SPI, 1 I ² C	-	-	✓	\$2.09	PBOR, POR, WDT	PDIP (P), SOIC (SO)	
28-Pin	dsPIC33FJ32GP102	R	21	dsPIC	32	2048	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	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MQL), VTLA (TL)
	dsPIC33FJ16GP102	R	21	dsPIC	16	1024	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)
	dsPIC33EP32GP502	R	21	dsPIC	32	4096	AN1095 ¹	4	3V-3.6V	60	7.37 MHz, 32 kHz	✓	6 ch	-	1+2†	2	4	4	-	5	2 UART, 2 SPI, 1 I ² C	1	-	✓	✓	\$2.10	BOR, POR, WDT	SPDIP (SP), SOIC (SO), SSOP (SS), QFN (MM)
	dsPIC33FJ12GP202	R	21	dsPIC	12	1024	AN1095 ¹	-	3V-3.6V	40	7.37 MHz, 32 kHz	-	10 ch	-	-	-	2	4	-	3	1 UART, 1 SPI, 1 I ² C	-	-	✓	✓	\$2.24	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MM), SSOP (SS)
	dsPIC33FJ32GP202	R	21	dsPIC	32	2048	AN1095 ¹	-	3V-3.6V	40	7.37 MHz, 32 kHz	-	10 ch	-	-	-	2	4	-	3	1 UART, 1 SPI, 1 I ² C	-	-	✓	✓	\$2.56	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MM)
	dsPIC33EP64GP502	R	21	dsPIC	64	8192	AN1095 ¹	4	3V-3.6V	60	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)
	dsPIC33EP512GP502	NR	21	dsPIC	512	49152	AN1095 ¹	4	3V-3.6V	60	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)
	dsPIC33FJ32GP302	R	21	dsPIC	32	4096	AN1095 ¹	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	10 ch	-	2	-	4	4	-	5	2 UART, 2 SPI, 1 I ² C	-	-	✓	✓	\$2.76	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MM)
	dsPIC33EP128GP502	R	21	dsPIC	128	16384	AN1095 ¹	4	3V-3.6V	60	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)
	dsPIC33FJ64GP202	R	21	dsPIC	64	8192	AN1095 ¹	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	10 ch	-	2	-	4	4	1	5	2 UART, 2 SPI, 1 I ² C	-	✓	-	✓	\$3.12	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MM)
	dsPIC33EP256GP502	R	21	dsPIC	256	32768	AN1095 ¹	4	3V-3.6V	60	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)
	dsPIC33FJ64GP802*	R	21	dsPIC	64	16384	AN1095 ¹	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	10 ch	2 x 16-bit @ 100 (ksps)	2	-	4	4	1	5	2 UART, 2 SPI, 1 I ² C	1	✓	✓	✓	\$3.42	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MM)
	dsPIC33FJ128GP202	R	21	dsPIC	128	8192	AN1095 ¹	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	10 ch	-	2	-	4	4	1	5	2 UART, 2 SPI, 1 I ² C	-	✓	✓	✓	\$3.44	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MM)
dsPIC33FJ128GP802	R	21	dsPIC	128	16384	AN1095 ¹	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	10 ch	2 x 16-bit @ 100 (ksps)	2	-	4	4	1	5	2 UART, 2 SPI, 1 I ² C	1	✓	✓	✓	\$3.72	PBOR, POR, WDT	SPDIP (SP), SOIC (SO), QFN (MM)	

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

† Op amp configured as comparator.

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

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

Products sorted by pin count followed by pricing.

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

dsPIC33 DSC GENERAL PURPOSE FAMILY

Product	Released (R) Not Released (NR)	I/O Pins	Core	Memory				Operating Speed		Analog Sensing & Measurement							Communication					Monitors		Packages (Designator)			
				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 ksps	DAC	Comparators	Op Amps	Output Compare/PWM	Input Capture	Codec (I ² S, AC97)	16-bit Timer ⁽²⁾	Digital Communication	CAN	PMP	RTCC/CRCC		PPS	5 I/O Pricing	System Mgmt. Features
dsPIC33EP32GP503	R	25	dsPIC*	32	4096	AN1095 ⁽¹⁾	4	3V-3.6V	62	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)
dsPIC33EP64GP503	R	25	dsPIC	64	8192	AN1095 ⁽¹⁾	4	3V-3.6V	60	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)
dsPIC33FJ32GP104	R	35	dsPIC	32	2048	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	PBOR, POR, WDT	TLA, TQFP (PT), QFN (ML)
dsPIC33EP32GP504	R	35	dsPIC	32	4096	AN1095 ⁽¹⁾	4	3V-3.6V	64	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	VTLA (TL), TQFP (PT), QFN (ML)
dsPIC33FJ16GP304	R	35	dsPIC	16	2048	AN1095 ⁽¹⁾	-	3V-3.6V	40	7.37 MHz, 32 kHz	-	13 ch	-	-	-	2	4	-	3	1 UART, 1 SPI, 1 I ² C	-	-	-	✓	\$2.58	PBOR, POR, WDT	TQFP (PT), QFN (ML)
dsPIC33FJ32GP204*	R	35	dsPIC	32	2048	AN1095 ⁽¹⁾	-	3V-3.6V	40	7.37 MHz, 32 kHz	-	13 ch	-	-	-	2	4	-	3	1 UART, 1 SPI, 1 I ² C	-	-	-	✓	\$2.66	PBOR, POR, WDT	TQFP (PT), QFN (ML)
dsPIC33EP64GP504	R	35	dsPIC	64	8192	AN1095 ⁽¹⁾	4	3V-3.6V	64	7.37 MHz, 32 kHz	✓	9 ch	-	1+3†	3	4	4	-	5	2 UART, 2 SPI, 1 I ² C	1	-	✓	✓	\$2.80	PBOR, POR, WDT	VTLA (TL), TQFP (PT), QFN (ML)
dsPIC33FJ32GP304	R	35	dsPIC	32	4096	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	13 ch	-	2	-	4	4	1	5	2 UART, 2 SPI, 1 I ² C	-	-	-	✓	\$3.01	PBOR, POR, WDT	TQFP (PT), QFN (ML)
dsPIC33EP512GP501	NR	35	dsPIC	512	49152	AN1095 ⁽¹⁾	4	3V-3.6V	64	7.37 MHz, 32 kHz	✓	9 ch	-	1+3†	3	4	4	-	5	2 UART, 2 SPI, 1 I ² C	1	-	✓	✓	\$2.80	PBOR, POR, WDT	TQFP (PT), QFN (ML)
dsPIC33E128GP504	R	35	dsPIC	128	16384	AN1095 ⁽¹⁾	4	3V-3.6V	64	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	VTLA (TL), TQFP (PT), QFN (ML)
dsPIC33FJ64GP204	R	35	dsPIC	64	8192	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	13 ch	-	2	-	4	4	1	5	2 UART, 2 SPI, 1 I ² C	-	✓	-	✓	\$3.29	PBOR, POR, WDT	TQFP (PT), QFN (ML)
dsPIC33EP256GP504	R	35	dsPIC	256	32768	AN1095 ⁽¹⁾	4	3V-3.6V	64	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	VTLA (TL), TQFP (PT), QFN (ML)
dsPIC33FJ128GP204	R	35	dsPIC	128	8192	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	13 ch	-	2	-	4	4	1	5	2 UART, 2 SPI, 1 I ² C	-	✓	✓	✓	\$3.58	PBOR, POR, WDT	TQFP (PT), QFN (ML)
dsPIC33FJ64GP804	R	35	dsPIC	64	16384	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	13 ch	2 x 16-bit @ 100 (ksps)	2	-	4	4	1	5	2 UART, 2 SPI, 1 I ² C	1	✓	✓	✓	\$3.65	PBOR, POR, WDT	TQFP (PT), QFN (ML)
dsPIC33FJ128GP804*	R	35	dsPIC	128	16384	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	13 ch	2 x 16-bit @ 100 (ksps)	2	-	4	4	1	5	2 UART, 2 SPI, 1 I ² C	1	✓	✓	✓	\$3.96	PBOR, POR, WDT	TQFP (PT), QFN (ML)
dsPIC33EP64GP506	R	53	dsPIC	64	8192	AN1095 ⁽¹⁾	4	3V-3.6V	66	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)
dsPIC33EP512GP506	NR	53	dsPIC	512	49152	AN1095 ⁽¹⁾	4	3V-3.6V	66	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)
dsPIC33EP128GP506	R	53	dsPIC	128	16384	AN1095 ⁽¹⁾	4	3V-3.6V	66	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)
dsPIC33FJ64GP206A	R	53	dsPIC	64	8192	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	18 ch	-	-	-	8	8	1	9	2 UART, 2 SPI, 1 I ² C	-	-	-	-	\$3.39	PBOR, POR, WDT	TQFP (PT), QFN (MR)
dsPIC33EP256GP506	R	53	dsPIC	256	32768	AN1095 ⁽¹⁾	4	3V-3.6V	66	7.37 MHz, 32 kHz	✓	16 ch	-	1+3†	3	4	4	-	5	2 UART, 2 SPI, 1 I ² C	1	-	✓	✓	\$3.42	PBOR, POR, WDT	TQFP (PT), QFN (MR)
dsPIC33FJ64GP306A	R	53	dsPIC	64	16384	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	18 ch	-	-	-	8	8	1	9	2 UART, 2 SPI, 2 I ² C	-	-	-	-	\$3.63	PBOR, POR, WDT	TQFP (PT), QFN (MR)
dsPIC33FJ128GP206A	R	53	dsPIC	128	8192	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	18 ch	-	-	-	8	8	1	9	2 UART, 2 SPI, 1 I ² C	-	-	-	-	\$3.63	PBOR, POR, WDT	TQFP (PT), QFN (MR)
dsPIC33FJ128GP306A	R	53	dsPIC	128	16384	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	18 ch	-	-	-	8	8	1	9	2 UART, 2 SPI, 2 I ² C	-	-	-	-	\$3.79	PBOR, POR, WDT	TQFP (PT), QFN (MR)
dsPIC33FJ64GP706A	R	53	dsPIC	64	16384	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	18 ch, 2 ADC	-	-	-	8	8	1	9	2 UART, 2 SPI, 2 I ² C	2	-	-	-	\$4.14	PBOR, POR, WDT	TQFP (PT), QFN (MR)
dsPIC33FJ256GP506A*	R	53	dsPIC	256	16384	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	18 ch	-	-	-	8	8	1	9	2 UART, 2 SPI, 2 I ² C	1	-	-	-	\$4.20	PBOR, POR, WDT	TQFP (PT), QFN (MR)
dsPIC33FJ128GP706A*	R	53	dsPIC	128	16384	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	18 ch, 2 ADC	-	-	-	8	8	1	9	2 UART, 2 SPI, 2 I ² C	2	-	-	-	\$4.40	PBOR, POR, WDT	TQFP (PT), QFN (MR)
dsPIC33EP512GP806	NR	53	dsPIC	536	53248	AN1095 ⁽¹⁾	15	3V-3.6V	70	7.37 MHz, 32 kHz	-	24 ch, 2 ADC	-	3	-	16	16	1	9	4 UART, 2 SPI, 2 I ² C	2	✓	✓	✓	\$5.60	PBOR, POR, WDT	TQFP (PT), QFN (MR)
dsPIC33FJ64GP708A	R	69	dsPIC	64	16384	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	24 ch, 2 ADC	-	-	-	8	8	1	9	2 UART, 2 SPI, 2 I ² C	2	-	-	-	\$4.44	PBOR, POR, WDT	TQFP (PT)
dsPIC33FJ128GP708A	R	69	dsPIC	128	16384	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	24 ch, 2 ADC	-	-	-	8	8	1	9	2 UART, 2 SPI, 2 I ² C	2	-	-	-	\$4.69	PBOR, POR, WDT	TQFP (PT)
dsPIC33FJ64GP310A	R	85	dsPIC	64	16384	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	32 ch	-	-	-	8	8	1	9	2 UART, 2 SPI, 2 I ² C	-	-	-	-	\$3.99	PBOR, POR, WDT	TQFP (PT, PF)
dsPIC33FJ128GP310A	R	85	dsPIC	128	16384	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	32 ch	-	-	-	8	8	1	9	2 UART, 2 SPI, 2 I ² C	-	-	-	-	\$4.26	PBOR, POR, WDT	TQFP (PT, PF)
dsPIC33FJ64GP710A	R	85	dsPIC	64	16384	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	32 ch, 2 ADC	-	-	-	8	8	1	9	2 UART, 2 SPI, 2 I ² C	2	-	-	-	\$4.61	PBOR, POR, WDT	TQFP (PT, PF)
dsPIC33FJ256GP510A	R	85	dsPIC	256	16384	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	32 ch	-	-	-	8	8	1	9	2 UART, 2 SPI, 2 I ² C	1	-	-	-	\$4.66	PBOR, POR, WDT	TQFP (PT, PF)
dsPIC33FJ128GP710A*	R	85	dsPIC	128	16384	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	32 ch, 2 ADC	-	-	-	8	8	1	9	2 UART, 2 SPI, 2 I ² C	2	-	-	-	\$4.86	PBOR, POR, WDT	TQFP (PT, PF)
dsPIC33FJ256GP710A*	R	85	dsPIC	256	30720	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	32 ch, 2 ADC	-	-	-	8	8	1	9	2 UART, 2 SPI, 2 I ² C	2	-	-	-	\$5.32	PBOR, POR, WDT	TQFP (PT, PF)

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

† Op amp configured as comparator.

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

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

Products sorted by pin count followed by pricing.

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

dsPIC33 DSC MOTOR CONTROL AND POWER CONVERSION FAMILY

	Product	Released (R) Not Released (NR)	I/O Pins	Core	Memory				Operating Speed		Analog Sensing & Measurement						Communication					Monitors	Packages (Designator)							
					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 tsps	DAC	Comparators	Op Amps	Output Compare/PWM	Input Capture	Motor Control PWM Ch	QEI	16-bit Timer ⁽²⁾			Digital Communication	CAN	FS USB OTG	PMP	RTCC/CRC	PPS	5 ku Pricing ⁽¹⁾
44-Pin (Cont.)	dsPIC33FJ32MC204*	R	35	dsPIC	32	2048	AN1095 ⁽¹⁾	-	3V-3.6V	40	7.37 MHz, 32 kHz	-	9 ch	-	-	-	2	4	6+2	1	3	1 UART, 1 SPI, 1 I ² C	-	-	-	-	✓	\$2.76	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	dsPIC33EP512MC504	NR	35	dsPIC	512	49152	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	-	-	-	✓	\$2.80	PBOR, POR, WDT	VTLA (TL), TQFP (PT), QFN (ML)
	dsPIC33EP64MC504	R	35	dsPIC	64	8192	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	-	-	-	✓	\$2.80	PBOR, POR, WDT	VTLA (TL), TQFP (PT), QFN (ML)
	dsPIC33EP128MC204	R	35	dsPIC	128	16384	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	VTLA (TL), TQFP (PT), QFN (ML)
	dsPIC33EP128MC504	R	35	dsPIC	128	16384	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	VTLA (TL), TQFP (PT), QFN (ML)
	dsPIC33FJ32MC304	R	35	dsPIC	32	4096	AN1095 ⁽¹⁾	-	3V-3.6V	40	7.37 MHz, 32 kHz	-	9 ch	-	2	-	4	4	6+2	2	5	2 UART, 2 SPI, 1 I ² C	-	-	-	-	✓	\$3.12	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	dsPIC33EP256MC204	R	35	dsPIC	256	32768	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	-	-	-	-	✓	\$3.28	PBOR, POR, WDT	VTLA (TL), TQFP (PT), QFN (ML)
	dsPIC33FJ64MC204	R	35	dsPIC	64	8192	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	9 ch	-	2	-	4	4	6+2	2	5	2 UART, 2 SPI, 1 I ² C	-	-	-	-	✓	\$3.39	PBOR, POR, WDT	TQFP (PT), QFN (ML)
	dsPIC33EP256MC504	R	35	dsPIC	256	32768	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	VTLA (TL), TQFP (PT), QFN (ML)
	dsPIC33FJ128MC204	R	35	dsPIC	128	8192	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	9 ch	-	2	-	4	4	6+2	2	5	2 UART, 2 SPI, 1 I ² C	-	-	-	-	✓	\$3.68	PBOR, POR, WDT	TQFP (PT), QFN (ML)
dsPIC33FJ64MC804*	R	35	dsPIC	64	16384	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	9 ch	-	2	-	4	4	6+2	2	5	2 UART, 2 SPI, 1 I ² C	1	-	-	-	✓	\$3.89	PBOR, POR, WDT	TQFP (PT), QFN (ML)	
dsPIC33FJ128MC804*	R	35	dsPIC	128	16384	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	9 ch	-	2	-	4	4	6+2	2	5	2 UART, 2 SPI, 1 I ² C	1	-	-	-	✓	\$4.23	PBOR, POR, WDT	TQFP (PT), QFN (ML)	
64-Pin	dsPIC33EP64MC206	R	53	dsPIC	64	8192	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	-	-	-	-	✓	\$2.73	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	dsPIC33EP512MC206	NR	53	dsPIC	512	49152	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)
	dsPIC33EP512MC506	NR	53	dsPIC	512	49152	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)
	dsPIC33EP64MC506	R	53	dsPIC	64	8192	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	16384	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)
	dsPIC33EP128MC506	R	53	dsPIC	128	16384	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	NR	53	dsPIC	256	32768	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	-	-	-	-	✓	\$3.42	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	dsPIC33EP256MC506	NR	53	dsPIC*	256	32768	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 TM	1	-	-	-	✓	\$3.63	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	dsPIC33FJ64MC506A*	R	53	dsPIC	64	8192	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	-	-	-	-	\$3.84	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	dsPIC33FJ128MC506A*	R	53	dsPIC	128	8192	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	-	-	-	-	\$4.10	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	dsPIC33FJ64MC706A	R	53	dsPIC	64	16384	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	16 ch, 2 ADC	-	-	-	8	8	8	1	9	2 UART, 2 SPI, 2 I ² C	1	-	-	-	-	\$4.21	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	dsPIC33FJ128MC706A*	R	53	dsPIC	128	16384	AN1095 ⁽¹⁾	8	3V-3.3V	40	7.37 MHz, 32 kHz	-	16 ch, 2 ADC	-	-	-	8	8	8	1	9	2 UART, 2 SPI, 2 I ² C	1	-	-	-	-	\$4.49	PBOR, POR, WDT	TQFP (PT), QFN (MR)
	dsPIC33EP256MU806	R	53	dsPIC	280	28672	AN1095 ⁽¹⁾	15	3V-3.6V	60	7.37 MHz, 32 kHz	-	24 ch, 2-ADC	-	3	-	16	16	8	2	9	4 UART, 4 SPI, 2 I ² C	2	1	✓	✓	✓	\$5.22	BOR, POR, WDT	TQFP (PT), QFN (MR)
dsPIC33EP512MC806	NR	53	dsPIC	536	53248	AN1095 ⁽¹⁾	15	3V-3.6V	70	7.37 MHz, 32 kHz	-	24 ch, 2 A/D	-	3	-	16	16	8	2	9	4 UART, 2 SPI, 2 I ² C	2	-	✓	✓	✓	\$5.60	PBOR, POR, WDT	TQFP (PT), QFN (MR)	
80-Pin	dsPIC33FJ64MC508A	R	69	dsPIC	64	8192	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	-	-	-	-	\$4.14	PBOR, POR, WDT	TQFP (PT)
	dsPIC33FJ128MC708A	R	69	dsPIC	128	16384	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	18 ch, 2 ADC	-	-	-	8	8	8	1	9	2 UART, 2 SPI, 2 I ² C	2	-	-	-	-	\$5.00	PBOR, POR, WDT	TQFP (PT)
100-Pin	dsPIC33FJ64MC510A	R	85	dsPIC	64	8192	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	24 ch	-	-	-	8	8	8	1	9	2 UART, 2 SPI, 2 I ² C	1	-	-	-	-	\$4.33	PBOR, POR, WDT	TQFP (PT, PF)
	dsPIC33FJ128MC510A	R	85	dsPIC	128	8192	AN1095 ⁽¹⁾	8	3V-3.6V	40	7.37 MHz, 32 kHz	-	24 ch	-	-	-	8	8	8	1	9	2 UART, 2 SPI, 2 I ² C	1	-	-	-	-	\$4.59	PBOR, POR, WDT	TQFP (PT, PF)
	dsPIC33FJ64MC710A	R	85	dsPIC	64	16384	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)
	dsPIC33FJ256MC510A	R	85	dsPIC	256	16384	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	16384	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)
	dsPIC33FJ256MC710A*	R	85	dsPIC	256	30720	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	28672	AN1095 ⁽¹⁾	15	3V-3.6V	60	7.37 MHz, 32 kHz	-	32 ch, 2 A/D	-	3	-	16	16	12	2	9	4 UART, 4 SPI, 2 I ² C	2	1	✓	✓	✓	\$5.70	BOR, POR, WDT	TQFP (PT, PF)
	dsPIC33EP512MU810	R	83	dsPIC	536	53248	AN1095 ⁽¹⁾	15	3V-3.6V	60	7.37 MHz, 32 kHz	-	32 ch, 2 A/D	-	3	-	16	16	12	2	9	4 UART, 4 SPI, 2 I ² C	2	1	✓	✓	✓	\$6.37	BOR, POR, WDT	TQFP (PT, PF)
	dsPIC33EP256MU814	R	122	dsPIC	280	28672	AN1095 ⁽¹⁾	15	3V-3.6V	60	7.37 MHz, 32 kHz	-	32 ch, 2 A/D	-	3	-	16	16	14	2	9	4 UART, 4 SPI, 2 I ² C	2	1	✓	✓	✓	\$6.31	BOR, POR, WDT	TQFP (PH), LQFP (PL)
dsPIC33EP512MU814	R	122	dsPIC	536	53248	AN1095 ⁽¹⁾	15	3V-3.6V	60	7.37 MHz, 32 kHz	-	32 ch, 2 A/D	-	3	-	16	16	14	2	9	4 UART, 4 SPI, 2 I ² C	2	1	✓	✓	✓	\$6.99	BOR, 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".**Note 2:** Two 16-bit timers can be concatenated to form a 32-bit timer.

Products sorted by pin count followed by pricing.

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

dsPIC33 DSC SMPS AND DIGITAL POWER CONVERSION FAMILY

Product	Released (R) Not Released (NF)	I/O Pins	Core	Memory				Voltage Range	Operating Speed		Analog			Output Compare/PWM	Input Capture	Power Supply PW< Ch ⁽¹⁾	QEI	16-bit Timer ⁽²⁾	Communication					5 ku Pricing†	Monitors		Packages (Designator)
				Program (KB)	Data RAM (B)	EEPROM	DMA #Ch		Maximum Speed MIPS	Internal Oscillator	ADC 10-bit 2000/4000 ksps	DAC	Comparators						Digital Communication	CAN	PMP	RTCC	PPS		System Mgmt. Features		
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)
	dsPIC33FJ06GS101	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	-	-	-	✓	\$1.96	BOR, POR, WDT	SOIC (SO)
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)
	dsPIC33FJ06GS102	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	-	-	-	✓	\$2.20	BOR, POR, WDT	SPDIP (SP), SOIC (SO), 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)
	dsPIC33FJ06GS202	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	-	-	-	✓	\$2.38	BOR, POR, WDT	SPDIP (SP), SOIC (SO), 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).

† 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.

THERMAL MANAGEMENT: Temperature Sensors

Product	Typical Accuracy (°C)	Max. Accuracy @ 25°C (°C)	Max. Temp. Range (°C)	Vcc Range (V)	Max. Op Current (µA)	Features	Packages
MCP9501/2/3/4	±0.5	±3	-55 to +125	+2.7 to +5.5	40	Cross to MAX6501/2/3/4, Open-drain and push-pull output options	SOT-23A
MCP9509/10	±0.5	NS	-40 to +125	+2.7 to +5.5	50	Resistor-programmable temperature switch	SOT-23A
MCP9700/01	±1	±4	-40 to +125	+2.3 to +5.5	12	Linear Active Thermistor® IC	SOT-23A, TO-92, SC70
MCP9700/01A	±1	±2	-40 to +125	+2.3 to +5.5	12	Linear Active Thermistor IC	SOT-23A, TO-92, SC70
TC1046	±0.5	±2	-40 to +125	+2.7 to +4.4	60	High precision temperature-to-voltage converter, 6.25 mV/°C	SOT-23A
TC1047A	±0.5	±2	-40 to +125	+2.5 to +5.5	60	High precision temperature-to-voltage converter, 10 mV/°C	SOT-23A
MCP9808	±0.25	±0.5	-40 to +125	+2.7 to +5.5	400	0.5°C temperature accuracy from -10°C to +100°C	MSOP, DFN
MCP9800/1/2/3	±0.5	±1	-55 to +125	+2.7 to +5.5	400	SMbus/I ² C compatible interface, 0.0625°C to 0.5°C adj. resolution, Power-saving one-shot temperature measurement	SOIC, MSOP, SOT-23A
MCP9804	±0.25	±1	-40 to +125	+2.7 to +5.5	400	User programmable temperature limits with alert output, 1°C temp. accuracy from -40°C to +125°C	MSOP, DFN
MCP9843	±0.5	±1	-20 to +125	+3.0 to +3.6	400	JEDEC compatible register set, SMbus/I ² C compatible interface, Programmable, Shut-down modes and EVENT output	TSSOP, DFN
MCP98243	±1	±3	-40 to +125	+3.0 to +3.6	500	Serial output temperature sensor with integrated EEPROM	TSSOP, DFN, TDFN
TCN75A	±0.5	±2	-40 to +125	+2.7 to +5.5	500	SMbus/I ² C compatible interface, Power-saving one-shot temperature measurement, Multi-drop capability, 0.0625°C to 0.5°C adjustable temperature resolution	SOIC, MSOP

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
MCP1630/V 1631/V	3.0 to 5.5	-	-40 to +125	PWM	1000/2000	2800/3700	Ext	Current/Voltage mode PWM controller, UVLO, Short Circuit and Over-temperature Protection, Integrated MOSFET driver	MSOP, SSOP, TSSOP, DFN
MCP1631HV/VHV	3.5 to 16	-	-40 to +125	PWM	2000	3700	Ext	Current/Voltage mode PWM controller with integrated 16V LDO, UVLO, Integrated error, Current and voltage sense amplifier, Overvoltage comparator and MOSFET driver	SSOP, TSSOP
MCP1640/B/C/D	0.65 to 6	2.0 to 5.5	-40 to +85	PWM or PFM/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
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
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

POWER MANAGEMENT: Linear Regulators

Product	Max. Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Typical Active Current (µA)	Typical Dropout Voltage @ Max. I _{out} (mV)	Typical Output Voltage Accuracy (%)	Features	Packages
TC1016/17	6	1.8 to 4.0	80/150	53	150/285	±0.5	Shutdown	SOT-23A, SC70
TC1301A/B	6	1.5 to 3.3	LD01: 300 LD02: 150	103/114	LD01: 104 LD02: 150	±0.5	Dual LDO plus Reset output, Shutdown, Reference bypass, Voltage detect	MSOP, DFN
TC1302AB	6	1.5 to 3.3	LD01: 300 LD02: 150	103/114	LD01: 104 LD02: 150	±0.5	Dual LDO, Shutdown, Reference bypass, Voltage detect	MSOP, DFN
TC2014/5, TC2185	6	1.8 to 5.0	50/100/150	55	45/90/140	±0.4	Shutdown, Reference bypass input	SOT-23A
TC2054/5, TC2186	6	1.8 to 5.0	50/100/150	55	45/90/140	±0.4	Shutdown, Error output	SOT-23A
MCP1700	6	1.2 to 5.0	250	1.6	300	±0.4	Very low I _q	SOT-23A, SOT-89, TO-92
MCP1702/3 /3A	13.2/16/16	1.2 to 5.0	250	2	330/625/625	±0.4	Very low I _q	DFN, TO-92, SOT-23A, SOT-89, SOT-223
MCP1725/6/7	6	0.8 to 5.0	500/1000/1500	120/140/140	210/300/330	±0.5	Shutdown, Co _{ELAY} , Power Good	SOIC, DFN
MCP1754/S	16	1.8 to 5.5	150	56	300	±0.4	Power Good, Shutdown	DFN, SOT-23A, SOT-89, SOT-223
MCP1790/1	30	3.0, 3.3, 5.0	70	70	500	±0.2	Load dump, Shutdown, Power Good	SOT-223, DPAK
MCP1801/2	10	0.9 to 6.0	150/300	25	250/800	±0.4	Shutdown, High PSRR	SOT-23A
MCP1804	28	1.8 to 18	150	50	300	±0.5	Shutdown, High PSRR	SOT-23, SOT-89, SOT-223
MCP1824/5/6/7	6	0.8 to 5.0	300/500/1000/1500	120/120/140/140	200/210/300/330	±0.5	Fixed and Adjustable output, Shutdown, Power Good	SOT-23, SOT-223, TO-220, DPAK
MCP1824S/5S/6S/7S	6	0.8 to 5.0	300/500/1000/1500	120/120/140/140	200/210/300/330	±0.5	3-pin high current LDOs	SOT-223, TO-220, DPAK

POWER MANAGEMENT: Charge Pump DC-to-DC Converters

Product	Input Voltage Range (V)	Output Voltage (V)	Operating Temp. Range (°C)	Max. Input Current (µA)	Typical Output Current (mA)	Features	Packages
TC1044S	1.5 to 12	-V _{IN} or 2*V _{IN}	-40 to +85	160	20	85 kHz oscillator Boost mode	PDIP, SOIC
TC7660	1.5 to 10	-V _{IN} or 2*V _{IN}	-40 to +85	180	20	10 kHz oscillator	PDIP, SOIC
TC7660H	1.5 to 10	-V _{IN} or 2*V _{IN}	-40 to +85	1000	20	120 kHz oscillator	PDIP, SOIC
TC7660S	1.5 to 12	-V _{IN} or 2*V _{IN}	-40 to +85	160	20	45 kHz oscillator Boost mode	PDIP, SOIC
TC7662B	1.5 to 15	-V _{IN} or 2*V _{IN}	-40 to +85	180	20	35 kHz oscillator Boost mode	PDIP, SOIC
TC7662A	3.0 to 18	-V _{IN} or 2*V _{IN}	-40 to +85	200	40	12 kHz oscillator	PDIP, SOIC
MCP1256	1.8 to 3.6	3.3	-40 to +85	100	100	Power Good Sleep mode	MSOP, DFN
MCP1257	1.8 to 3.6	3.3	-40 to +85	100	100	Sleep mode low battery indication	MSOP, DFN
MCP1258	1.8 to 3.6	3.3	-40 to +85	100	100	Low battery indication input/output bypass 1	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-SOT-23, 3-T0-92, 3-SOT-23A, 3-SOT-89, 3-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-SOIC (150 mil), 5-SOT-23, 4-SOT-143, 3-T0-92, 3-SOT-23, 5-SC70

POWER MANAGEMENT: Power MOSFET Drivers

Product	Configuration	Operating Temp. Range (°C)	Peak Output Current (A)	Output Resistance (Max. @ 25°C)	Max Supply Voltage (V)	Input/Output Delay (ns)	Packages
MCP1401/02 Single	Inverting/Non-inverting	-40 to +125	0.5	18/16	18	40/40	SOT-23
MCP1415/16 Single	Inverting/Non-inverting	-40 to +125	1.5	7.5/5.5	18	50/55	SOT-23
TC4467/8/9 Quad	Inverting/ Non-inverting	-40 to +85	1.2	15/15	18	40/40	PDIP, SOIC
TC4426A/27A/28A Dual	Inverting/Non-inverting	-40 to +125	1.5	9/9	18	30/30	PDIP, SOIC, DFN
TC4423A/24A/25A Dual	Inverting/Non-inverting	-40 to +125	3	3 (typ.)/4 (typ.)	18	40 (typ.)/40 (typ.)	PDIP, SOIC, DFN
MCP14E3/E4/E5 Dual	Inverting/Non-inverting	-40 to +125	4	3.5/3.0	18	55/55	PDIP, SOIC, DFN
MCP14E6/E7/E8 Dual	Inverting/Non-inverting/Inverting and Non-inverting	-40 to +125	2	2.2/2.8	18	45/45	PDIP, SOIC, DFN
MCP14E9/E10/E11 Dual	Inverting/Non-inverting/Inverting and Non-inverting	-40 to +125	3	2.2/2.8	18	75/75	PDIP, SOIC, DFN
MCP1406/07 Single	Inverting/Non-inverting	-40 to +125	6	1.8/2.0 (typ.)	18	30/30	T0-220, PDIP, SOIC, DFN
TC4420/29	Inverting/Non-inverting	-40 to +125	6	2.8/2.5	18	55/55	T0-220, PDIP, SOIC, DFN
TC4421A/22A Single	Inverting /Non-inverting	-40 to +125	9	1.25 (typ.)/1.5	18	38/42	T0-220, PDIP, SOIC, DFN
TC4451/52 Single	Inverting /Non-inverting	-40 to +125	12	0.6 (typ.)/1.5	18	15/15	T0-220, PDIP, SOIC, DFN, DDPACK
TC4431/32 Single	Inverting /Non-inverting	-40 to +85	1.5	10/10	30	62/78	PDIP, SOIC

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 (V _{DD}), 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 × 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 × 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 × 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 × 3 DFN, 5-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 × 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 × 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)	Operating Voltage (V)	Packages
MCP661/2/3/4/5/9	1/2/1/4/2/4	60	6000	8	2.5 to 5.5	SOIC, MSOP, DFN, TSSOP, QFN, SOT	MCP6071/2/4	1/2/4	1.2	110	0.15	1.8 to 6.0	SOIC, TSSOP, DFN, SOT
MCP651/1S/2/3/4/5/9	1/1/2/1/4/2/4	50	6000	0.2	2.5 to 5.5	SOIC, MSOP, DFN, TSSOP, QFN, SOT	MCP6H01/2/4	1/2/4	1.2	135	4.5	3.5 to 16	SOIC, TSSOP, TDFN, SOT, SC70
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	MCP6001/2/4	1/2/4	1	100	4.5	1.8 to 6.0	PDIP, SOIC, MSOP, TSSOP, TDFN, SOT, SC70
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	MCP6401/2/4	1/2/4	1	45	4.5	1.8 to 6.0	SOIC, TSSOP, TDFN, SOT, SC70
MCP6H91/2/4	1/2/4	10	2000	4	3.5 to 12	DFN, SOIC, TSSOP	MCP6L01/2/4	1/2/4	1	85	5	1.8 to 6.0	SOIC, MSOP, TSSOP, SOT, SC70
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	SOIC, TSSOP, DFN, SOT
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	PDIP, SOIC, MSOP, TSSOP, TDFN, SOT, SC70
MCP6L91/2/4	1/2/4	10	850	4	2.4 to 6.0	SOIC, MSOP, TSSOP, SOT	MCP6051/2/4	1/2/4	0.385	30	0.15	1.8 to 6.0	SOIC, TSSOP, DFN, SOT
MCP6281/2/3/4/5	1/2/1/4/2	5	445	3	2.2 to 6.0	PDIP, SOIC, MSOP, TSSOP, SOT	MCP6V31	1	0.3	23	0.008	1.8 to 5.5	SOT, SC70
MCP6286	1	3.5	540	1.5	2.2 to 5.5	SOT	MCP6231/2/4	1/2/4	0.3	20	5	1.8 to 6.0	PDIP, SOIC, MSOP, TSSOP, TDFN, SOT, SC70
MCP601/2/3/4	1/2/1/4	2.8	230	2	2.7 to 6.0	PDIP, SOIC, TSSOP, SOT	MCP616/7/8/9	1/2/1/4	0.19	19	0.15	2.3 to 5.5	PDIP, SOIC, MSOP, TSSOP
MCP6L1/2/4	1/2/4	2.8	200	3	2.7 to 6.0	SOIC, MSOP, TSSOP, SOT	MCP606/7/8/9	1/2/1/4	0.155	19	0.25	2.5 to 6.0	PDIP, SOIC, TSSOP, SOT
MCP6271/2/3/4/5	1/2/1/4/2	2	170	3	2.0 to 6.0	PDIP, SOIC, MSOP, TSSOP, SOT	MCP6141/2/3/4	1/2/1/4	0.1	0.6	3	1.4 to 6.0	PDIP, SOIC, MSOP, TSSOP, SOT
MCP6L71/2/4	1/2/4	2	150	4	2.0 to 6.0	SOIC, MSOP, TSSOP, SOT	MCP6V11	1	0.08	7.5	0.008	1.6 to 5.5	SOT, SC70
MCP6V01/2/3	1/2/1	1.3	300	0.002	1.8 to 5.5	SOIC, DFN, TDFN	MCP6041/2/3/4	1/2/1/4	0.014	0.6	3	1.4 to 6.0	PDIP, SOIC, MSOP, TSSOP, SOT
MCP6V06/7/8	1/2/1	1.3	300	0.003	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	SOIC, MSOP, TSSOP, DFN, SOT
MCP6V26/7/8	1/2/1	2	620	0.002	2.3 to 5.5	SOIC, MSOP, DFN	MCP6441/2/4	1/2/4	0.009	0.45	4.5	1.4 to 6.0	SOIC, MSOP, TSSOP, SOT, SC70

LINEAR: Comparators

Product	# per Package	Typical Propagation Delay (µs)	Iq Typical (µA)	Vos 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	Gain Selection	Output Type	Typical Supply Current (mA)	Analog Voltage Range (V)	Digital Voltage Range (V)	Temperature Range (°C)	Packages
MCP3911	24-bit resolution	94.5 dB SINAD	2	up to 32	SPI	1.7	2.7 to 3.6	2.7 to 3.6	-40 to +125	SSOP, QFN
MCP3903	24-bit resolution	91 dB SINAD	6	up to 32	SPI	8.3	4.5 to 5.5	2.7 to 3.6	-40 to +125	SSOP
MCP3905A/06A	500:1 /1000:1	0.1%	2	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	up to 16	Active power pulse/SPI	3.9	4.5 to 5.5	4.5 to 5.5	-40 to +125	SSOP

MIXED SIGNAL: Digital Potentiometers

Product	# of Taps	Memory	Channels	Interface	Resistance (kΩ)	Temperature Range (°C)	Packages	Product	# of Taps	Memory	Channels	Interface	Resistance (kΩ)	Temperature Range (°C)	Packages
MCP4011/12/13/14	64	Volatile	1	Up/Down	2.1, 5, 10, 50	-40 to +125	DFN, SOT-23	MCP4331/32	129	Volatile	4	SPI	5,10,50,100	-40 to +125	TSSOP, QFN
MCP4017/18/19	128	Volatile	1	I ² C™	5, 10, 50, 100	-40 to +125	SC70	MCP4351/52	257	Volatile	4	SPI	5,10,50,100	-40 to +125	TSSOP, QFN
MCP40D17/D18/D19	128	Volatile	1	I ² C	5, 10, 50, 100	-40 to +125	SC70	MCP4431/32	129	Volatile	4	I ² C	5, 10, 50, 100	-40 to +125	TSSOP, QFN
MCP4021/22/23/24	64	Nonvolatile	1	Up/Down	2.1, 5, 10, 50	-40 to +125	DFN, SOT-23	MCP4441/42	129	Nonvolatile	4	I ² C	5, 10, 50, 100	-40 to +125	TSSOP, QFN
MCP4141/42	128	Nonvolatile	1	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN	MCP4451/52	257	Volatile	4	I ² C	5, 10, 50, 100	-40 to +125	TSSOP, QFN
MCP4241/42	128	Nonvolatile	2	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN	MCP4461/62	257	Nonvolatile	4	I ² C	5, 10, 50, 102	-40 to +125	TSSOP, QFN
MCP4131/32	128	Volatile	1	SPI	5, 10, 50, 100	-40 to +125	QFN, DFN	MCP4531/32	128	Volatile	1	I ² C	5, 10, 50, 100	-40 to +125	MSOP, DFN
MCP4231/32	128	Volatile	2	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN	MCP4631/32	128	Volatile	2	I ² C	5, 10, 50, 100	-40 to +125	MSOP, DFN
MCP4151/52	256	Volatile	1	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN	MCP4541/42	128	Nonvolatile	1	I ² C	5, 10, 50, 100	-40 to +125	MSOP, DFN
MCP4161/62	256	Nonvolatile	1	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN	MCP4641/42	128	Nonvolatile	2	I ² C	5, 10, 50, 100	-40 to +125	MSOP, DFN
MCP4251/52	256	Volatile	2	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN	MCP4551/52	256	Volatile	1	I ² C	5, 10, 50, 100	-40 to +125	MSOP, DFN
MCP4261/62	256	Nonvolatile	2	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN	MCP4651/52	256	Volatile	2	I ² C	5, 10, 50, 100	-40 to +125	MSOP, DFN
MCP4341/42	129	Nonvolatile	4	SPI	5, 10, 50, 100	-40 to +125	TSSOP, QFN	MCP4561/62	256	Nonvolatile	1	I ² C	5, 10, 50, 100	-40 to +125	MSOP, DFN
MCP4361/62	257	Nonvolatile	4	SPI	5, 10, 50, 100	-40 to +125	TSSOP, QFN	MCP4661/62	256	Nonvolatile	2	I ² C	5, 10, 50, 100	-40 to +125	MSOP, DFN

MIXED SIGNAL: Delta Sigma Analog-to-Digital Converters

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

INTERFACE: Controller Area Network (CAN), Infrared, LIN Transceivers, Ethernet, Serial Peripherals, USB

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
MCP2551	CAN (Controller Area Network), High-speed CAN transceiver	-40 to +125	1 Mbps max. CAN bus speed, ISO11898 compatible, Industry standard pinout	PDIP, SOIC
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 10 BASE-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, 10/100 Base-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, 10/100 Base-T PHY	TQFP

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, I ² C™	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
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	-20 to +85	Dual Full Bridge Motor Driver for Stepper Motors, Pin Compatible with Allegro 6219	24-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	-20 to +85	Dual Full Bridge Motor Driver for Stepper Motors, Pin Compatible with Allegro 2916	24-SOP
MTD6505	3-Phase Brushless DC 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-UDFN (3 × 3)
MTD6501C/D/G	3-Phase Brushless DC 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-SOP (C, G), 10-MSOP (D)
MTD6502B	3-Phase Brushless DC 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-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)	ID/MAC (Bits)	Min Vcc	Min Ibat			
I ² C™	MCP7940M	8	±127 ppm	1 sec.	–	IRQ/CLK	64	0	0	1.8	–	–	\$0.46	SOIC (SN), TSSOP (ST), MSOP (MS), TDFN (MNY), PDIP (P)
	MCP7940N	8	±127 ppm	1 sec.	–	IRQ/CLK	64	0	0	1.8	1.3	Power Fail Timestamp	\$0.59	SOIC (SN), TSSOP (ST), MSOP (MS), TDFN (MNY)
	MCP7940X	8	±127 ppm	1 sec.	–	IRQ/CLK	64	0	64	1.8	1.3	Power Fail Timestamp	\$0.66	SOIC (SN), TSSOP (ST), MSOP (MS), TDFN (MNY)
	MCP7941X	8	±127 ppm	1 sec.	–	IRQ/CLK	64	1	64	1.8	1.3	Power Fail Timestamp	\$0.72	SOIC (SN), TSSOP (ST), MSOP (MS), TDFN (MNY)
SPI	MCP7951X	10	±255 ppm	0.01 sec.	–	IRQ/CLK	64	1	128	1.8	1.3	Power Fail Timestamp	\$0.90	SOIC (SL), TSSOP (ST)
	MCP7952X	10	±255 ppm	0.01 sec.	–	IRQ/CLK	64	2	128	1.8	1.3	Power Fail Timestamp	\$0.96	MSOP (MS), TDFN (MN)
	MCP795W1X	14	±255 ppm	0.01 sec.	✓	1. CLK 2. IRQ 3. WDT RST	64	1	128	1.8	1.3	Power Fail Timestamp, Event Detects (x 2)	\$1.22	SOIC (SL), TSSOP (ST)
	MCP795W2X	14	±255 ppm	0.01 sec.	✓	1. CLK 2. IRQ 3. WDT RST	64	2	128	1.8	1.3	Power Fail Timestamp, Event Detects (x 2)	\$1.28	SOIC (SL), TSSOP (ST)

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

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

SERIAL MEMORY PRODUCTS

Bus	Product	Released (R) Not Released (NR)	Density	Organization	Max. Clock Frequency	Operating Voltage	Temperature Range	E/W Endurance (Minimum)	Data Retention (Minimum)	Max. Write Speeds	Max. Standby Current (@ 5.5V, 85°C)	Write Protect		Protected Array Size	5 ku Pricing†	Special/Unique Features	Packages
												Hardware	Software				
Serial SRAM																	
SPI	23X640	R	64 Kb	x 8	20 MHz	1.5V–1.95V 2.7V–3.6V	–40°C to +125°C	∞	Volatile	0 ms	4 µA	–	–	–	\$0.51	Zero write cycle time, Infinite endurance, Volatile RAM, Byte/page/ sequential read-write modes	PDIP (P), SOIC (SN), TSSOP (ST)
	23X256	R	256 Kb	x 8	20 MHz	1.5V–1.95V 2.7V–3.6V	–40°C to +125°C	∞	Volatile	0 ms	4 µA	–	–	–	\$0.87	Zero write cycle time, Infinite endurance, Volatile RAM, Byte/page/ sequential read-write modes	PDIP (P), SOIC (SN), TSSOP (ST)
	23XX512	R	512 Kb	x 8	20 x 4 MHz	1.7V–2.2V 2.5V–5.5V	–40°C to +125°C	∞	Volatile	0 ms	4 µA	–	–	–	\$1.24	Fast Speed: Quad SPI available (80 MHz); Infinite endurance; Zero write times, 5V capable	SOIC (SN), PDIP (P), TSSOP (ST)
	23XX1024	R	1024 Kb	x 8	20 x 4 MHz	1.7V–2.2V 2.5V–5.5V	–40°C to +125°C	∞	Volatile	0 ms	4 µA	–	–	–	\$1.73	Fast Speed: Quad SPI available (80 MHz); Infinite endurance; Zero write times, 5V capable	SOIC (SN), PDIP (P), TSSOP (ST)
Serial NVSRAM																	
SPI	23LCV512	R	512 Kb	x 8	20 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 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 (MNY), DFN (MC), TO-92 (TO), 3-SOT-23 (TT), WLCSP (CS)
	11XX020/E48	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 option available	PDIP (P), SOIC (SN), MSOP (MNY), DFN (MC), TO-92 (TO), 3-SOT-23 (TT), WLCSP (CS)
	11XX040	R	4 Kb	x 8	100 kHz	1.8V–5.5V	–40°C to +125°C	1M	200 Years	5 ms	1 µA	–	✓	W, ½, ¼	\$0.26	Single I/O for all clock, data, control and write protection	PDIP (P), SOIC (SN), MSOP (MNY), DFN (MC), TO-92 (TO), 3-SOT-23 (TT), WLCSP (CS)
	11XX080	R	8 Kb	x 8	100 kHz	1.8V–5.5V	–40°C to +125°C	1M	200 Years	5 ms	1 µA	–	✓	W, ½, ¼	\$0.30	Single I/O for all clock, data, control and write protection	PDIP (P), SOIC (SN), MSOP (MNY), DFN (MC), TO-92 (TO), 3-SOT-23 (TT), WLCSP (CS)
	11XX160	R	16 Kb	x 8	100 kHz	1.8V–5.5V	–40°C to +125°C	1M	200 Years	5 ms	1 µA	–	✓	W, ½, ¼	\$0.33	Single I/O for all clock, data, control and write protection	PDIP (P), SOIC (SN), MSOP (MNY), DFN (MC), TO-92 (TO), 3-SOT-23 (TT), WLCSP (CS)
I ² C™	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 (MC), 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 (MNY), DFN (MC), 5-SOT-23 (OT), SC70 (LT)
	24XX02/024/E48	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 option available	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MNY), DFN (MC), 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),
	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 (MC), 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 (MNY), DFN (MC), 5-SOT-23 (OT), SC70 (LT)
	24XX02/024/E48	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 option available	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MNY), DFN (MC), 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)
	24XX04	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 (MNY), DFN (MC), 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 (MNY), DFN (MC), 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 (MNY), DFN (MC), 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 (MNY), DFN (MC), 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 (MNY), DFN (MC), WLCSP (CS)
	24XX256	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	PDIP (P), SOIC (SN), TSSOP (ST), SOU (SM), MSOP (MS), DFN (MF), WLCSP (CS)
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 Spreads	Max. Standby Current (@ 5.5V, 85°C)	Write Protect		Protected Array Size	5 Ku Pricing†	Special/Unique Features	Packages
												Hardware	Software				
Serial EERPOM (Cont.)																	
Microwire	93XX46A/B/C	R	1 Kb	× 8/× 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	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY), 6-SOT-23 (OT)
	93XX56A/B/C	R	2 Kb	× 8/× 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	× 8/× 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	× 8/× 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	× 8/× 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	× 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	R	2 Kb	× 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 option available	PDIP (P), SOIC (SN), TSSOP (ST), MSOP (MS), DFN (MNY), 6-SOT-23 (OT)
	25XX040A	R	4 Kb	× 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	× 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	× 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	× 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	× 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	× 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	× 8	10 MHz	1.8V–5.5V	–40°C to +150°C	1M	200 Years	5 ms	1 µA	✓	✓	W, ½, ¼	\$1.01	5 MHz @ 2.5V, Status register, 64 byte page	PDIP (P), SOIC (SN), TSSOP (ST), DFN (MF), SOU (SM)
	25XX512	R	512 Kb	× 8	20 MHz	1.8V–5.5V	–40°C to +125°C	1M	200 Years	5 ms	10 µA	✓	✓	W, ½, ¼	\$1.53	10 MHz @ 2.5V, Deep power down, Status register, Page/sector/chip erase	PDIP (P), SOIC (SN), DFN (MF), SOU (SM)
25XX1024	R	1 Mb	× 8	20 MHz	1.8V–5.5V	–40°C to +125°C	1M	200 Years	6 ms	12 µA	✓	✓	W, ½, ¼	\$2.59	10 MHz @ 2.5V, Deep power down, Status register, Page/sector/chip erase	PDIP (P), DFN (MF), SOU (SM)	

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.

SST 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
											Max. Standby Current	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, 8-XFBGA
	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, 8-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
	SST25VF040B	R	4 Mb	512K 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, 8-XFBGA
	SST25VF080B	R	8 Mb	1M 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, 8-XFBGA
	SST25VF016B	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	SST25VF064C	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)	5 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
x4	SST26VF016	R	16 Mb	2M x 8	80 MHz	2.7–3.6V	–40°C to +85°C	100,000 cycles (minimum)	100 years	1 ms (Page Program)	8 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
	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)	8 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
x1, x2, x4	SST26WF080B	NR	8 Mb	1M x 8	104 MHz	1.65–1.95V	0°C to 70°C –40°C to +85°C	100,000 cycles (minimum)	100 years	1 ms (Page Program)	3 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	NR	16 Mb	2M x 8	104 MHz	1.65–1.95V	0°C to 70°C –40°C to +85°C	100,000 cycles (minimum)	100 years	1 ms (Page Program)	3 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	NR	32 Mb	4M x 8	104 MHz	2.7–3.6V	0°C to 70°C –40°C to +85°C	100,000 cycles (minimum)	100 years	1 ms (Page Program)	15 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	NR	64 Mb	8M x 8	104 MHz	2.7–3.6V	0°C to 70°C –40°C to +85°C	100,000 cycles (minimum)	100 years	1 ms (Page Program)	15 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

*2.5V available on certain 25 series devices.

**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
											Max. Standby Current	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 (FWH) device for PC-BIOS application, provide protection for the storage and update of code and data	32L-PLCC, 32L-TSOP
	SST49LF016C	R	16 Mb	2M x 8	33 MHz	3.0–3.6V	0°C to 70°C	100,000 cycles (minimum)	100 years	14 µs (Byte Program)	14 µA	✓	✓	Various	Firmware Hub (FWH) device for PC-BIOS application, provide protection for the storage and update of code and data	32L-PLCC, 32L-TSOP
	SST49LF080A	R	8 Mb	1M x 8	33 MHz	3.0–3.6V	0°C to 70°C	100,000 cycles (minimum)	100 years	14 µs (Byte Program)	14 µA	✓	✓	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

SST PARALLEL 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
											Max. Standby Current	Hardware	Software	Protected Array Size		
x8	SST39SF010A	R	1 Mb	128K x 8	45/70 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	45 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	45 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	45/55/70 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	45/70 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	45 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, 48B-TSOP
SST39LF200A	R	2 Mb	128K x 16	55 ns	3.0-3.6V	0°C to 70°C	100,000 cycles	100 years	14 µs (Word Program)	3 µA	-	-	N/A	Fast read, program and erase, Low power, Small erase sector	48B-TFBGA, 48L-TSOP	
91x	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	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, 48B-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	100 years	28 µs (Word Program)	5 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, 48B-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	100 years	28 µs (Word Program)	5 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	100 years	28 µs (Word Program)	5 µA	✓	-	32 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, 48B-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, 48B-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, 48B-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, 48B-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, 48B-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, 48B-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.

SST RF PRODUCTS

Product	Description	Frequency (GHz)	PA/Tx Gain (dB)	Linear Power (dBm)	% EVM	Voltage Range (V)	LNA/Rx Gain (dB)	LNA/Rx NF (dB)	Package Option
WLAN Power Amplifiers									
SST11CP15-QUBE	WLAN 11a/n PA (Low Current)	5	25.5-28.5	18.5 21	3.0% 3.0%	3.3 5	-	-	12-pin 2 × 2 mm
SST11LP12-QCF	WLAN 11a/n PA (High Power)	5	35	21	3.0%	3.3	-	-	16-pin 3 × 3 mm
SST12LP07A-QXBE	WLAN 11b/g/n PA	3.4	28	20.5	3.0%	3.3	-	-	12-pin 2 × 2 mm
SST12CP11-QVCE	WLAN 11b/g/n PA (Ultra High Power)	2.4	34	25	3.0%	5	-	-	16-pin 3 × 3 mm
SST12LP07-QVCE-MM007	WLAN 11b/g/n PA	2.4	29	19.5	3.0%	3.3	-	-	16-pin 3 × 3 mm
SST12LP08A-QX8E	WLAN 11b/g/n High Gain PA	2.4	29	20.5	3.0%	3.3	-	-	8-pin 2 × 2 mm
SST12LP08-QX6E	WLAN 11b/g/n High Gain PA	2.4	30	20	3.0%	3.3	-	-	6-pin 1.5 × 1.5 mm
SST12LP08-QX8E	WLAN 11b/g/n High Gain PA	2.4	30	20	3.0%	3.3	-	-	12-pin 2 × 2 mm
SST12LP14A-QVCE	WLAN 11b/g PA	2.4	29	21	3.0%	3.3	-	-	16-pin 3 × 3 mm
SST12LP14C-QVCE	WLAN 11b/g PA	2.4	32	20	4.0%	3.3	-	-	16-pin 3 × 3 mm
SST12LP14E-QX6E	WLAN 11b/g/n PA (Low Current)	2.4	23	19	3.0%	3.3	-	-	6-pin 1.5 × 1.5 mm
SST12LP14E-QX8E	WLAN 11b/g/n PA (Low Current)	2.4	23	19	3.0%	3.3	-	-	8-pin 2 × 2 mm
SST12LP14-QVCE	WLAN 11b/g PA	2.4	30	20	4.0%	3.3	-	-	16-pin 3 × 3 mm
SST12LP15A-QVCE	WLAN 11b/g/n PA (High Power)	2.4	32	22	3.0%	3.3	-	-	16-pin 3 × 3 mm
SST12LP15B-QVCE	WLAN 11b/g/n PA (High Power)	2.4	32	22	<3%	3.3	-	-	16-pin 3 × 3 mm
SST12LP18E-QX8E	WLAN 11b/g/n PA (Low Current /Low Voltage)	2.4	25	18	3.0%	3.3	-	-	8-pin 2 × 2 mm
SST12LP19E-QX8E	WLAN 11b/g/n PA (Low Current)	2.4	25	20	3.0%	3.3	-	-	6-pin 1.5 × 1.5 mm
SST12LP19E-QX8E	WLAN 11b/g/n PA (Low Current)	2.4	25	20	3.0%	3.3	-	-	8-pin 2 × 2 mm
WLAN Power Amplifier Modules									
SST13LP05-MLCF	WLAN 11a/b/g Dual-Band 50 Ω Matched PAM	2.4 5	29 29-26	18.5 17.5	3.0%	3.3	-	-	16-pin 4 × 4 mm
SST12LP17E-QU8E	WLAN 11b/g/n 50 Ω Matched PAM	2.4	29	18	< 3%	3.3	-	-	8-pin 2 × 2 mm
Front End Modules									
SST12LF01-QDE	WLAN 11b/g FEM (PA+LNA)	2.4	29	19	3.0%	3.3	14	1.5	24-pin 4 × 4 mm
SST12LF02-QXCE	WLAN 11b/g/n FEM (PA+SP3T)	2.4	29	18.5	3.0%	3.3	-0.5	0.5	16-pin 3 × 3 mm
Low-Noise Amplifier									
SST12LN01-QU6E	WLAN 2.4 GHz LNA	2.4	-	-	-	3.3	14	1.2-1.5	6-pin 3 × 1.6 mm

WIRELESS PRODUCTS

Product	Pin Count	Frequency Range (GHz)	Sensitivity (dBm)	Power Output (dBm)	RSSI	Tx Power Consumption (mA)	Rx Power Consumption (mA)	Clock	Sleep	MAC	MAC Features	Protocols	Encryption	Interface	Volume Pricing [†]	Packages
IEEE 802.11 Modules																
MRF24WBOMA	36	2.412-2.484	-91	10	Yes	156	85	25 MHz	0.1 μA*	Yes	802.11b	-	WPA, WPA2, WEP	4-wire SPI	\$12.48	36/Module
MRF24WBOMB	36	2.412-2.484	-91	10	Yes	156	85	25 MHz	0.1 μA*	Yes	802.11b	-	WPA, WPA2, WEP	4-wire SPI	\$12.48	36/Module
MRF24WGOMA	36	2.412-2.484	-95	18	Yes	240	95	25 MHz	0.1 mA*	Yes	802.11b/g, Wi-Fi® Direct, SoftAP WPS	-	WPA2-PSK, WPA-PSK, WEP	4-wire SPI	call for pricing	-
MRF24WGOMB	36	2.412-2.484	-95	18	Yes	240	95	25 MHz	0.1 mA*	Yes	802.11b/g, Wi-Fi® Direct, SoftAP WPS	-	WPA2-PSK, WPA-PSK, WEP	4-wire SPI	call for pricing	-
RN171	49	2.412-2.484	-83	12	Yes	130	30	44 MHz	4 μA	Yes	802.11b/g, Wi-Fi® Direct, SoftAP WPS, Webscan	DHCP DNS, ARP, ICMP, FTP client, HTTP client, TCP, UDP	WEP, WPA, WPA2	UART, SPI Slave, Wi-Fi	\$18.11	49/Module
RN131C	44	2.412-2.484	-85	18	Yes	210 (+ 18 dBm)	40	44 MHz	4 μA	Yes	802.11b/g, Wi-Fi® Direct, SoftAP WPS, Webscan	DHCP DNS, ARP, ICMP, FTP client, HTTP client, TCP, UDP	WEP, WPA, WPA2	UART, SPI Slave, Wi-Fi	\$24.90	44/Module
RN131G	44	2.412-2.484	-85	18	Yes	210 (+ 18 dBm)	40	44 MHz	4 μA	Yes	802.11b/g, Wi-Fi® Direct, SoftAP WPS, Webscan	DHCP DNS, ARP, ICMP, FTP client, HTTP client, TCP, UDP	WEP, WPA, WPA2	UART, SPI Slave, Wi-Fi	\$27.75	44/Module
IEEE 802.15.4 Transceivers/Modules																
MRF24J40	40	2.405-2.48	-95	0	Yes	23	19	20 MHz	2 μA	Yes	CSMA-CA	-	AES128	4-wire SPI	\$2.36	40/QFN
MRF24J40MA	12	2.405-2.48	-95	0	Yes	23	19	20 MHz	2 μA	Yes	CSMA-CA	-	AES128	4-wire SPI	\$4.94	12/Module
MRF24J40MB	12	2.405-2.48	-102	20	Yes	130	25	20 MHz	5 μA	Yes	CSMA-CA	-	AES128	4-wire SPI	\$10.66	12/Module
MRF24J40MC	12	2.405-2.48	-108	20	Yes	120	25	20 MHz	12 μA	Yes	CSMA-CA	-	AES128	4-wire SPI	\$10.66	12/Module

*MRF24W parts show "off" current for sleep column.

WIRELESS PRODUCTS

Product	Pin Count	Frequency Range (GHz)	Sensitivity (dBm)	Power Output (dBm)	Power Consumption	Sleep	MAC	Profiles	Interface	Volume Pricing†	Packages
Bluetooth											
RN421-/RM	35	2.4212-2.484	-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	\$12.50	35/Module
RN411-/RM	35	2.4212-2.484	-80	15	Standby/Idle 25 mA, Connected (normal mode) 3 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	\$18.75	35/Module

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 @ 0 dBm	3	12.8 MHz	0.1 µA	4-wire SPI	\$1.76	32/TQFN
MRF89XAM8A	12	868	-113	12.5	Yes	25 mA @ 0 dBm	3	12.8 MHz	0.1 µA	4-wire SPI	\$5.20	12/Module
MRF89XAM9A	12	915	-113	12.5	Yes	25 mA @ 0 dBm	3	12.8 MHz	0.1 µA	4-wire SPI	\$5.20	12/Module

rfPIC™ Transmitters + PIC® MCUs

Product	I/O Pins	Frequency Range (MHz)	Program Memory (Bytes)	EEPROM (bytes)	RAM (bytes)	Digital Timer	Watch Dog Timer	Max. Speed (MHz)	ICSP™	Modulation	Data Rate (kbps)	Output Power (dBm)	Operating Voltage	Volume Pricing†	Packages
PIC12F529T48A	6	418-868	2.3 K	-	201	1	1	8	Yes	OOK/FSK	100	10	2.0-3.7	\$0.85	14/TSSOP
PIC12F529T39A	6	310-928	2.3 K	-	201	1	1	8	Yes	OOK/FSK	100	10	2.0-3.7	\$0.95	14/TSSOP
PIC12LF1840T48A	6	418-868	7.1 K	256	256	2	1	32	Yes	OOK/FSK	100	10	1.8-3.6	\$1.12	14/TSSOP
PIC12LF1840T39A	6	310-928	7.1 K	256	256	2	1	32	Yes	OOK/FSK	100	10	1.8-3.6	\$1.27	14/TSSOP
rfPIC12F675F	6	380-450	1.7 K	128	64	1	1	20	Yes	ASK/FSK	40	10	2.0-5.5	\$2.11	20/SSOP
rfPIC12F675H	6	850-930	1.7 K	128	64	1	1	20	Yes	ASK/FSK	40	10	2.0-5.5	\$2.11	20/SSOP
rfPIC12F675K	6	290-350	1.7 K	128	64	1	1	20	Yes	ASK/FSK	40	10	2.0-5.5	\$2.11	20/SSOP

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

TERMS AND DEFINITIONS

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

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 × 3 × 0.9 mm	16-lead QFN (MG) 3 × 3 × 0.9 mm	8-lead MSOP (MS)	8-lead SOIC (SN)
3-lead DDPAK (EB)	8-lead TDFN (MN) 2 × 3 × 0.75 mm	20-lead QFN (ML) 4 × 4 × 0.9 mm	10-lead MSOP (UN)	8-lead SOIC (SM)
Die/Wafer (WLCSP)	8-lead UDFN (MU) 2 × 3 × 0.5 mm	20-lead QFN (MQ) 5 × 5 × 0.9 mm	16-lead QSOP (QR)	14-lead SOIC (SL)
3-lead SC70 (LB)	8-lead DFN (MF) 3 × 3 × 0.9 mm	28-lead UQFN (MV) 4 × 4 × 0.5 mm	20-lead SSOP (SS)	16-lead SOIC (SL)
5-lead SC70 (LT)	8-lead DFN (MD) 4 × 4 × 0.9 mm	28-lead QFN (MQ) 5 × 5 × 0.9 mm	28-lead SSOP (SS)	18-lead SOIC (SO)
3-lead SOT-23 (TT/CB)	8-lead DFN (MF) 6 × 5 × 0.9 mm	28-lead QFN (MM & ML) 6 × 6 × 0.9 mm	Plastic Thin Shrink Small Outline TSSOP	20-lead SOIC (SO)
3-lead TO-92 (TO/ZB)	36-lead VTLA (TL) 5 × 5 × 0.9 mm	40-lead UQFN (MV) 5 × 5 × 0.5 mm		8-lead TSSOP (ST)
5-lead SOT-23 (OT)	44-lead VTLA (TL) 6 × 6 × 0.9 mm	44-lead QFN (ML) 8 × 8 × 0.9 mm	14-lead TSSOP (ST)	28-lead SOIC (SO)
6-lead SOT-23 (OT/CH)	124-lead VTLA (TL) 9 × 9 × 0.9 mm	64-lead QFN (MR) 9 × 9 × 0.9 mm	20-lead TSSOP (ST)	
3-SOT-223 (DB)				
4-lead SOT-143 (RC)				

Packages are shown approximate size.

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

For detailed dimensions, view our Package Drawing and Dimensions Specification at: www.microchip.com/packaging.

Product Packages

Plastic Thin Quad Flatpack TQFP



44-lead TQFP (PT)
10 × 10 × 1 mm



64-lead TQFP (PT)
10 × 10 × 1 mm



64-lead TQFP (PF)
14 × 14 × 1 mm



80-lead TQFP (PT)
12 × 12 × 1 mm



80-lead TQFP (PF)
14 × 14 × 1 mm



100-lead TQFP (PT)
12 × 12 × 1 mm



100-lead TQFP (PF)
14 × 14 × 1 mm



144-lead TQFP (PH)
16 × 16 × 1 mm

Plastic Quad Flatpack QFP



32-lead LQFP (LQ)
7 × 7 × 1.4 mm



44-lead MQFP (PQ)
10 × 10 × 2 mm



144-lead LQFP (PL)
20 × 20 × 1.4 mm

Ball Grid Array BGA



100-ball BGA (BG)
10 × 10 × 1.1 mm



121-ball BGA (BG)
10 × 10 × 0.8 mm

Plastic Dual In-Line PDIP



8-lead PDIP (P)



14-lead PDIP (P)



18-lead PDIP (P)



20-lead PDIP (P)



24-lead PDIP (P)



28-lead SPDIP (SP)



40-lead PDIP (P)

Additional SST Package Options

NOR Flash Memory



8-lead WSON (A6/QAE)
5 × 6 mm



32-lead PDIP (P2/PHE)
600 mil



32-lead PLCC (PE/NHE)
0.452" × 0.552"



40-lead TSOP (W8/EIE)
10 × 20 mm



48-lead WFBGA (3T/MAQE)
4 × 6 × 0.73 mm



48-lead TFBGA (8T/B3KE)
6 × 8 × 1.2 mm



48-lead TSOP (W9/EKE)
12 × 20 × 1.2 mm

RF Devices



6-lead XSON (QX/QX6E)
1.5 × 1.5 × 0.5 mm



8-lead XSON (Q7/QX8E)
2 × 2 × 0.5 mm



6-lead UQFN (QU/QU6E)
3 × 1.6 × 0.5 mm



16-lead LFLGA (MF/MLCF)
4 × 4 × 1.4 mm

8051-based Microcontrollers



44-lead PLCC (T2/NJE)
0.652" × 0.652"

Packages are shown approximate size.

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

For detailed dimensions, view our Package Drawing and Dimensions Specification at: www.microchip.com/packaging.

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