MICROCHIP

Focus Product Selector Guide

Featuring:
8-, 16- and 32-bit PIC® Microcontrollers
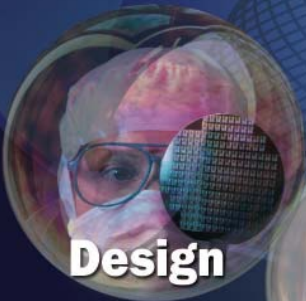**dsPIC® Digital Signal Controllers**
Analog & Interface Products
EEPROM, SRAM and Flash Memory
Wireless and RF Products

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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 63,000 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 and LIN USARTs). 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 (WiFi®) 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 (N/R)	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	10-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	I²C™/SPI	Ethernet (MAC/PHY)	USB 2.0 Device	CAN	BOR/PBOR	PLVD	SR-Latch
6-Pin																																						
PIC10F200	R	6	4	BL	0.375 KB / 0.25 Kw	–	16	–	2V-5.5V	4 MHz	4 MHz	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–
PIC10F202	R	6	4	BL	0.75 KB / 0.50 Kw	–	24	–	2V-5.5V	4 MHz	4 MHz	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–
PIC10F204	R	6	4	BL	0.375 KB / 0.25 Kw	–	16	–	2V-5.5V	4 MHz	4 MHz	–	1	–	–	–	1	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–
PIC10F206	R	6	4	BL	0.75 KB / 0.50 Kw	–	24	–	2V-5.5V	4 MHz	4 MHz	–	1	–	–	–	1	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–
PIC10F220	R	6	4	BL	0.375 KB / 0.25 Kw	–	16	–	2V-5.5V	8 MHz	4 MHz, 8 MHz	–	2	2	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–
PIC10F222	R	6	4	BL	0.75 KB / 0.50 Kw	–	23	–	2V-5.5V	8 MHz	4 MHz, 8 MHz	–	2	2	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–
PIC10F320	R	6	4	MR	.4375 KB / 0.25 Kw	RW	32	–	1.8V-5.5V	16 MHz	16 MHz	–	3	3	–	–	–	–	–	–	2	–	–	1/0	1	–	1	2	1	–	–	–	–	–	–	–	SW◊	–
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	–	–	–	–	–	–	–	SW◊	–
8-Pin																																						
PIC12F508	R	8	6	BL	0.75 KB / 0.50 Kw	–	25	–	2V-5.5V	4 MHz	4 MHz	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–
PIC12F509	R	8	6	BL	1.5 KB / 1 Kw	–	41	–	2V-5.5V	4 MHz	4 MHz	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–
PIC12F510	R	8	6	BL	1.5 KB / 1 Kw	–	38	–	2V-5.5V	8 MHz	4 MHz, 8 MHz	–	3	3	–	–	1	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–
PIC12F519	R	8	6	BL	1.5 KB / 1 Kw	–	41	64	2V-5.5V	8 MHz	4 MHz, 8 MHz	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–
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	–	–	–	–	–	–	PBOR	SW◊	–
PIC12F609	R	8	6	MR	1.75 KB / 1 Kw	–	64	–	2V-15V	20 MHz	4 MHz, 8 MHz	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	1	1	–	–	–	–	–	–	BOR	–	–
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	–	–	–	–	–	–	BOR	SW◊	–
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	–	–	–	–	–	–	BOR	SW◊	–
PIC12F752	R	8	6	MR	1.75 KB / 1 Kw	–	64	–	2V-5.5V	20 MHz	4 MHz, 8 MHz	–	4	–	4	–	2	–	–	1/0	–	1	–	0/1	–	–	–	3	1	–	–	–	–	–	–	BOR	SW◊	–
PIC12F629	R	8	6	MR	1.75 KB / 1 Kw	–	64	128	2V-5.5V	20 MHz	4 MHz	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	1	1	–	–	–	–	–	–	BOR	–	–
PIC12F1822 (XLP)	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	–	–	–	BOR	SW◊	–
PIC12F675	R	8	6	MR	1.75 KB / 1 Kw	–	64	128	2V-5.5V	20 MHz	4 MHz	–	3	–	3	–	1	–	–	–	–	–	–	–	–	–	–	1	1	–	–	–	–	–	–	BOR	–	–
PIC12F1840 (XLP)	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	–	–	–	PBOR	SW	✓
PIC12F635	R	8	6	MR	1.75 KB / 1 Kw	–	64	128	2V-5.5V	20 MHz	8 MHz, 31 kHz	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	1	1	–	–	–	–	–	–	BOR	✓	–
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	–	–	–	–	–	–	PBOR	–	–
14-Pin																																						
PIC16F505	R	14	12	BL	1.5 KB / 1 Kw	–	72	–	2V-5.5V	20 MHz	4 MHz	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–
PIC16F506	R	14	12	BL	1.5 KB / 1 Kw	–	67	–	2V-5.5V	20 MHz	4/8 MHz	–	4	4	–	–	2	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–
PIC16F526	R	14	12	BL	1.5 KB / 1 Kw	–	67	64	2V-5.5V	20 MHz	4/8 MHz	–	4	4	–	–	2	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–
PIC16F1503	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	–	–	–	PBOR	SW◊	–
PIC16F610	R	14	12	MR	1.75 KB / 1 Kw	–	64	–	2V-15V	20 MHz	4/8 MHz	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	–	1	1	–	–	–	–	–	–	BOR	–	✓
PIC16F616	R	14	12	MR	3.5 KB / 2 Kw	–	128	–	2V-15V	20 MHz	4/8 MHz	–	8	–	8	–	2	–	–	–	–	–	1	–	–	–	–	2	1	–	–	–	–	–	–	BOR	SW◊	✓
PIC16F1823 (XLP)	R	14	12	EMR	3.5 KB / 2 Kw	RW	128	256	1.8V-5.5V	32 MHz	32 MHz, 31 kHz	–	8	–	8	–	2	–	–	–	–	–	1	–	–	–	–	2	1	–	1	1	–	–	–	BOR	SW◊	✓

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

Row groups (left vertical labels): 14-Pin (Cont.), 18-Pin, 20-Pin

Product	Released (R)/Not Released (NR)	Total Pins	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	10-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^2C™/SPI	Ethernet (MAC/PHY)	USB 2.0 Device	CAN	BOR/PBOR	PLVD	SR-Latch
PIC16F1824 (XLP)	R	14	12	EMR	7 KB / 4 Kw	RW	256	256	1.8V-5.5V	32 MHz	32 MHz, 31 kHz	–	8	–	8	–	2	–	–	–	–	2	2	–	–	–	–	4	1	–	1	1	–	–	–	BOR	SW◊	✓
PIC16F630	R	14	12	MR	1.75 KB / 1 Kw	–	64	128	2V-5.5V	20 MHz	4 MHz	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	1	1	–	–	–	–	–	–	BOR	–	–
PIC16F1454 (XLP)	NR	14	12	EMR	7 KB / 4 Kw	RW	512	–	1.8V-5.5V	48 MHz	48 MHz, 31 KHz	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	1	–	1	1	–	✓	–	PBOR	SW	–
PIC16F636	R	14	12	MR	3.5 KB / 2 Kw	–	128	256	2V-5.5V	20 MHz	8 MHz, 31 kHz	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	–	1	1	–	–	–	–	–	–	BOR	–	–
PIC16F1825 (XLP)	R	14	12	EMR	14 KB / 8 Kw	RW	1024	256	1.8V-5.5V	32 MHz	32 MHz, 31 kHz	–	8	–	8	–	2	–	–	–	–	2	2	–	–	–	–	4	1	–	1	1	–	–	–	BOR	SW◊	✓
PIC16F676	R	14	12	MR	1.75 KB / 1 Kw	–	64	128	2V-5.5V	20 MHz	4 MHz	–	8	–	8	–	1	–	–	–	–	–	–	–	–	–	–	1	1	–	–	–	–	–	–	BOR	–	–
PIC16F684	R	14	12	MR	3.5 KB / 2 Kw	–	128	256	2V-5.5V	20 MHz	8 MHz, 31 kHz	–	8	–	8	–	2	–	–	–	–	–	1	–	–	–	–	2	1	–	–	–	–	–	–	BOR	–	–
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	–	–	–	–	BOR	–	–
PIC16F1455 (XLP)	NR	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	–	✓	–	PBOR	SW	–
PIC16F54	R	18	12	BL	0.75 KB / 0.50 Kw	–	25	–	2V-5.5V	20 MHz	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–
PIC16F716	R	18	13	MR	3.5 KB / 2 Kw	–	128	–	2V-5.5V	20 MHz	–	–	–	–	4	–	–	–	–	–	–	–	1	–	–	–	–	2	1	–	–	–	–	–	–	BOR	–	–
PIC16F1826 (XLP)	R	18	16	EMR	3.5 KB / 2 Kw	RW	256	256	1.8V-5.5V	32 MHz	32 MHz, 31 kHz	–	12	–	12	–	2	–	–	–	–	–	1	–	–	–	–	2	1	–	1	1	–	–	–	BOR	SW◊	✓
PIC16F1827 (XLP)	R	18	16	EMR	7 KB / 4 Kw	RW	384	256	1.8V-5.5V	32 MHz	32 MHz, 31 kHz	–	12	–	12	–	2	–	–	–	–	2	2	–	–	–	–	4	1	–	1	2	–	–	–	BOR	SW◊	✓
PIC16F1847 (XLP)	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	–	–	–	PBOR	SW	✓
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	–	–	–	–	–	–	PBOR	SW	–
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	–	–	–	BOR	SW◊	–
PIC16F1508 (XLP)	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	–	–	–	PBOR	SW	–
PIC16F1509 (XLP)	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	–	–	–	PBOR	SW	–
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	–	–	–	BOR	SW◊	–
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	–	–	–	–	–	–	BOR	SW◊	✓
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	–	–	–	BOR	SW◊	✓
PIC16F1828 (XLP)	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	–	–	–	BOR	SW◊	✓
PIC16F1829 (XLP)	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	–	–	–	BOR	SW◊	✓
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	–	–	–	BOR	SW◊	✓
PIC16F1458 (XLP)	NR	20	18	EMR	7 KB / 4 Kw	RW	512	–	1.8V-5.5V	48 MHz	48 MHz, 31 KHz	–	9	–	9	–	2	–	–	2	–	–	–	–	–	–	–	2	1	–	1	1	–	✓	–	PBOR	SW	–
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	–	–	–	–	–	–	BOR	SW◊	–
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	–	–	–	–	–	–	BOR	SW◊	✓
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	–	–	–	BOR	SW◊	✓

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.
(XLP) – eXtreme Low Power variants available.

Focus Product

8-bit PIC® Microcontrollers

Left-side row groups: 20-Pin (Cont.), 28-Pin

Product	Released (R)/Not Released (NR)	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	10-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	I²C/SPI	Ethernet (MAC/PHY)	USB 2.0 Device	CAN	BOR/PBOR	PLVD	SR-Latch	Timer 1 Gate
PIC16F1459	NR	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	SW	–	–
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	SW◊	✓	✓
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	SW◊	✓	–
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	SW◊	✓	–
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	SW◊	✓	–
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	SW◊	✓	–
PIC16F57	R	28	20	BL	3 KB 2 Kw	–	72	–	2V-5.5V	20 MHz	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–
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	SW◊	–	✓
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	–	–	–	–	–	–	–	SW◊	–	✓
PIC16F1512	NR	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	–	✓
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	SW◊	–	✓
PIC16LF1903	R	28	25	EMR	7 KB 4 Kw	RW	256	–	1.8V-3.6V	20 MHz	16 MHz	72	11	–	11	–	–	–	–	–	–	–	–	–	–	–	–	1	1	–	1	1	–	–	–	–	SW◊	–	–
PIC16F1513	NR	28	25	EMR	7 KB 4 Kw	RW	256	–	1.8V-5.5V	20MHz	16 MHz, 31 KHz	–	17	–	17	–	–	–	–	–	2	–	–	–	–	–	–	2	1	–	1	1	–	–	–	PBOR	SW	–	✓
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	–	–	–	–	–	SW◊	–	✓
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	–	✓
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	–	✓
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	SW◊	✓	✓
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	SW◊	–	✓
PIC16F1782	R	28	25	EMR	3.5 KB 2 Kw	RW	256	256	1.8V-5.5V	32 MHz	32 MHz	–	–	–	–	11	3	–	2	0/1	–	2	–	–	–	2	–	2	1	–	1	1	–	–	–	BOR	SW◊	–	✓
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	SW◊	✓	✓
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	✓	–	–
PIC16F1783	R	28	25	EMR	7 KB 4 Kw	RW	512	256	1.8V-5.5V	32 MHz	32 MHz	–	–	–	–	11	3	–	2	0/1	–	2	–	–	–	2	–	2	1	–	1	1	–	–	–	BOR	SW◊	–	✓
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	SW◊	✓	✓
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	✓	–	–
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	SW◊	✓	✓
PIC16F1786	NR	28	25	EMR	14 KB 8 Kw	RW	1024	256	1.8V-5.5V	32 MHz	32 MHz	–	–	–	–	11	3	–	2	0/1	–	2	–	–	–	2	–	2	1	–	1	1	–	–	–	BOR	SW◊	–	✓
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	SW◊	✓	✓
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	✓	–	–

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

		Pins			Memory					Operating Speed				Analog Sensing & Measurement							Digital									Communication						Monitors		
Product	Released (R)/Not Released (NR)	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	10-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	I²C™/SPI	Ethernet (MAC/PHY)	USB 2.0 Device	CAN	BOR/PBOR	PLVD	SR-Latch
PIC18F23K22	R	28	25	PIC18	8 KB 4 Kw	RW	512	256	1.8V-5.5V	64 MHz	16 MHz, 31 kHz	–	17	–	17	–	2	✓	–	–	–	1	1	–	–	–	–	–	3	–	2	2	–	–	–	PBOR	✓	✓
PIC18F24J10	R	28	21	PIC18	16 KB 8 Kw	RW	1024	–	2V-3.6V	40 MHz	32 kHz	–	10	–	10	–	2	–	–	–	–	2	–	–	–	–	–	–	2	–	1	1	–	–	–	BOR	–	–
PIC18F24K22	R	28	25	PIC18	16 KB 8 Kw	RW	768	256	1.8V-5.5V	64 MHz	16 MHz, 31 kHz	–	17	–	17	–	2	✓	–	–	–	1	1	–	–	–	–	–	3	–	2	2	–	–	–	PBOR	✓	✓
PIC16F886	R	28	25	MR	14 KB 8 Kw	RW	368	256	2V-5.5V	20 MHz	8 MHz, 31 kHz	–	11	–	11	–	2	–	–	–	–	1	1	–	–	–	–	–	1	–	1	1	–	–	–	BOR	SW◊	✓
PIC18F25J10	R	28	21	PIC18	32 KB 16 Kw	RW	1024	–	2V-3.6V	40 MHz	32 kHz	–	10	–	10	–	2	–	–	–	–	2	–	–	–	–	–	–	2	–	1	1	–	–	–	BOR	–	–
PIC18F25K22	R	28	25	PIC18	32 KB 16 Kw	RW	1536	256	1.8V-5.5V	64 MHz	16 MHz, 31 kHz	–	17	–	17	–	2	✓	–	–	–	2	3	–	–	–	–	–	4	–	2	2	–	–	–	PBOR	✓	✓
PIC18F24J11	R	28	21	PIC18	16 KB 8 Kw	RW	3800	–	2V-3.6V	48 MHz	8 MHz, 31 kHz	–	10	–	10	–	2	✓	–	–	–	–	2	–	–	–	–	–	3	–	2	2	–	–	–	BOR	SW◊	–
PIC18F26K20	R	28	25	PIC18	64 KB 32 Kw	RW	3936	1024	1.8V-3.6V	64 MHz	16 MHz, 31 kHz	–	11	–	11	–	2	–	–	–	–	1	1	–	–	–	–	–	3	–	1	1	–	–	–	PBOR	✓	–
PIC18F25J11	R	28	21	PIC18	32 KB 16 Kw	RW	3800	–	2V-3.6V	48 MHz	8 MHz, 31 kHz	–	10	–	10	–	2	✓	–	–	–	–	2	–	–	–	–	–	3	–	2	2	–	–	–	BOR	SW◊	–
PIC18F24J50	R	28	22	PIC18	16 KB 8 Kw	RW	3800	–	2V-3.6V	48 MHz	8 MHz, 31 kHz	–	10	–	10	–	2	✓	–	–	–	–	2	–	–	–	–	2	3	–	2	2	–	✓	–	BOR	SW◊	–
PIC18F26K22	R	28	25	PIC18	64 KB 32 Kw	RW	3896	1024	1.8V-5.5V	64 MHz	16 MHz, 31 kHz	–	17	–	17	–	2	✓	–	–	–	2	3	–	–	–	–	3	4	–	2	2	–	–	–	PBOR	✓	✓
PIC18F25K80	R	28	24	PIC18	32 KB 16 Kw	RW	3648	1024	1.8V-5.5V	64 MHz	8 MHz, 31 kHz	–	8	–	–	8	2	✓	–	–	4	1	–	–	–	–	–	2	3	–	2	1	–	–	✓	PBOR	✓	–
PIC18F25J50	R	28	22	PIC18	32 KB 16 Kw	RW	3800	–	2V-3.6V	48 MHz	8 MHz, 31 kHz	–	10	–	10	–	2	✓	–	–	–	–	2	–	–	–	–	2	3	–	2	2	–	✓	–	BOR	SW◊	–
PIC18F26J11	R	28	21	PIC18	64 KB 32 Kw	RW	3800	–	2V-3.6V	48 MHz	8 MHz, 31 kHz	–	10	–	10	–	2	✓	–	–	–	–	2	–	–	–	–	2	3	–	2	2	–	–	–	BOR	SW◊	–
PIC18F26K80	R	28	24	PIC18	64 KB 32 Kw	RW	3648	1024	1.8V-5.5V	64 MHz	8 MHz, 31 kHz	–	8	–	–	8	2	✓	–	–	4	1	–	–	–	–	–	2	3	–	2	1	–	–	✓	PBOR	✓	–
PIC18F26J13	R	28	23	PIC18	64 KB 32 Kw	RW	3808	–	2V-3.6V	48 MHz	8 MHz, 31 kHz	–	10	–	–	10	3	✓	–	–	–	7	3	–	–	–	–	4	4	–	2	2	–	–	–	BOR	✓	–
PIC18F26J50	R	28	22	PIC18	64 KB 32 Kw	RW	3800	–	2V-3.6V	48 MHz	8 MHz, 31 kHz	–	10	–	10	–	2	✓	–	–	–	–	2	–	–	–	–	2	3	–	2	2	–	✓	–	BOR	SW◊	–
PIC18F26J53	R	28	22	PIC18	64 KB 32 Kw	RW	3808	–	2V-3.6V	48 MHz	8 MHz, 31 kHz	–	10	–	–	10	3	✓	–	–	–	7	3	–	–	–	–	4	4	–	2	2	–	✓	–	BOR	✓	–
PIC18F27J13	R	28	23	PIC18	128 KB 64 Kw	RW	3808	–	2V-3.6V	48 MHz	8 MHz, 31 kHz	–	10	–	–	10	3	✓	–	–	–	7	3	–	–	–	–	4	4	–	2	2	–	–	–	BOR	✓	–
PIC18F27J53	R	28	22	PIC18	128 KB 64 Kw	RW	3808	–	2V-3.6V	48 MHz	8 MHz, 31 kHz	–	10	–	–	10	3	✓	–	–	–	7	3	–	–	–	–	4	4	–	2	2	–	✓	–	BOR	✓	–
PIC16F59	R	40	32	BL	3 KB 2 Kw	–	134	–	2V-5.5V	20 MHz	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–
PIC16LF1904	R	40	36	EMR	7 KB 4 Kw	RW	256	–	1.8V-3.6V	20 MHz	16 MHz	116	14	–	14	–	–	–	–	–	–	–	–	–	–	–	–	1	1	–	1	–	–	–	–	–	–	–
PIC16LF1907	R	40	36	EMR	14 KB 8 Kw	RW	512	–	1.8V-3.6V	20 MHz	16 MHz	116	14	–	14	–	–	–	–	–	–	–	–	–	–	–	–	1	1	–	1	–	–	–	–	–	–	–
PIC16F1517	R	40	36	EMR	14 KB 8 Kw	RW	512	–	1.8V-5.5V	20 MHz	16 MHz	–	28	–	28	–	–	–	–	–	–	2	–	–	–	–	–	2	1	–	1	1	–	–	–	PBOR	SW	–
PIC16F1519	R	40	36	EMR	28 KB 16 Kw	RW	1024	–	1.8V-5.5V	20 MHz	16 MHz	–	28	–	28	–	–	–	–	–	–	2	–	–	–	–	–	2	1	–	1	1	–	–	–	PBOR	SW	–
PIC16F724	R	40	36	MR	7 KB 4 Kw	RW	192	–	1.8V-5.5V	20 MHz	16 MHz	–	16	14	–	–	–	–	–	–	–	2	–	–	–	–	–	2	1	1	–	1	–	–	–	BOR	SW◊	–
PIC16F1934	R	40	36	EMR	7 KB 4 Kw	RW	256	256	1.8V-5.5V	32 MHz	32 MHz, 31 kHz	96	16	–	14	–	2	–	–	–	–	2	3	–	–	–	–	–	4	1	–	1	1	–	–	–	PBOR	SW◊	✓
PIC18F43K20	R	40	36	PIC18	8 KB 4 Kw	RW	512	256	1.8V-3.6V	64 MHz	16 MHz, 31 kHz	–	14	–	14	–	2	–	–	–	–	1	1	–	–	–	–	–	1	3	–	1	1	–	–	–	BOR	✓	–

Row group labels: rows PIC18F23K22 through PIC18F27J53 are grouped as "28-Pin (Cont.)"; rows PIC16F59 through PIC18F43K20 are grouped as "40/44-Pin".

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

40/44-Pin (Cont.)

Product	Released (R)/Not Released (NR)	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	10-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	I²C™/SPI	Ethernet (MAC/PHY)	USB 2.0 Device	CAN	BOR/PBOR	PLVD	SR-Latch
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	SW◊	–
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	–	3	–	–	–	3	–	2	1	–	1	1	–	–	–	BOR	SW◊	–
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	SW◊	✓
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	✓	–
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	–	3	–	–	–	3	–	2	1	–	1	1	–	–	–	BOR	SW◊	–
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	SW◊	✓
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	✓	–
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	SW◊	✓
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	–	–
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	✓	✓
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	✓	✓
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	SW◊	✓
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	–	–
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	✓	–
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	✓	✓
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	SW◊	–
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	SW◊	–
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	SW◊	–
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	✓	✓
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	✓	✓
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	SW◊	–
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	SW◊	–
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	✓	–
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	✓	–
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	SW◊	–
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	✓	–
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	✓	–
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	✓	–

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)	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	10-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	I²C™/SPI	Ethernet (MAC/PHY)	USB 2.0 Device	CAN	BOR/PBOR	PLVD	SR-Latch
PIC16F1526	R	64	54	EMR	14 KB 8 Kw	RW	768	–	1.8V-5.5V	20 MHz	16 MHz	–	30	–	30	–	–	–	–	–	–	10	–	–	–	–	–	6	3	–	2	2	–	–	–	PBOR	SW◊	–
PIC16F1527	R	64	54	EMR	28 KB 16 Kw	RW	1536	–	1.8V-5.5V	20 MHz	16 MHz	–	30	–	30	–	–	–	–	–	–	10	–	–	–	–	–	6	3	–	2	2	–	–	–	PBOR	SW◊	–
PIC16F1946	R	64	53	EMR	14 KB 8 Kw	RW	512	256	1.8V-5.5V	32 MHz	32 MHz, 31 kHz	184	17	–	17	–	3	–	–	–	–	2	3	–	–	–	–	4	1	–	2	2	–	–	–	BOR	SW◊	✓
PIC16F1947	R	64	53	EMR	28 KB 16 Kw	RW	1024	256	1.8V-5.5V	32 MHz	32 MHz, 31 kHz	184	17	–	17	–	3	–	–	–	–	2	3	–	–	–	–	4	1	–	2	2	–	–	–	BOR	SW◊	✓
PIC18F63J11	R	64	54	PIC18	8 KB 4 Kw	RW	1024	–	2V-3.6V	40 MHz	8 MHz, 31 kHz	–	12	–	12	–	2	–	–	–	–	2	–	–	–	–	–	1	3	1	1	1	–	–	–	PBOR	SW◊	–
PIC18F65J10	R	64	50	PIC18	32 KB 16 Kw	RW	2048	–	2V-3.6V	40 MHz	31 kHz	–	11	–	11	–	2	–	–	–	–	2	3	–	–	–	–	2	3	–	2	2	–	–	–	BOR	✓	–
PIC18F64J11	R	64	54	PIC18	16 KB 8 Kw	RW	1024	–	2V-3.6V	40 MHz	8 MHz, 31 kHz	–	12	–	12	–	2	–	–	–	–	2	–	–	–	–	–	1	3	1	1	1	–	–	–	BOR	SW◊	–
PIC18F63J90	R	64	51	PIC18	8 KB 4 Kw	RW	1024	–	2V-3.6V	40 MHz	8 MHz, 31 kHz	132	12	–	12	–	2	–	–	–	–	2	–	–	–	–	–	1	3	1	1	1	–	–	–	BOR	✓	–
PIC18F65J11	R	64	54	PIC18	32 KB 16 Kw	RW	2048	–	2V-3.6V	40 MHz	8 MHz, 31 kHz	–	12	–	12	–	2	–	–	–	–	2	–	–	–	–	–	1	3	1	1	1	–	–	–	BOR	SW◊	–
PIC18F65K22	R	64	53	PIC18	32 KB 16 Kw	RW	2048	1024	1.8V-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	–	16	–	–	16	3	✓	–	–	–	5	3	–	–	–	–	4	4	–	2	2	–	–	–	BOR	✓	–
PIC18F64J90	R	64	51	PIC18	16 KB 8 Kw	RW	1024	–	2V-3.6V	40 MHz	8 MHz, 31 kHz	132	12	–	12	–	2	–	–	–	–	2	–	–	–	–	–	1	3	1	1	1	–	–	–	BOR	✓	–
PIC18F66J10	R	64	50	PIC18	64 KB 32 Kw	RW	2048	–	2V-3.6V	40 MHz	31 kHz	–	11	–	11	–	2	–	–	–	–	2	3	–	–	–	–	2	3	–	2	2	–	–	–	BOR	✓	–
PIC18F65J90	R	64	50	PIC18	32 KB 16 Kw	RW	2048	–	2V-3.6V	40 MHz	8 MHz, 31 kHz	132	12	–	12	–	2	–	–	–	–	2	–	–	–	–	–	1	3	1	1	1	–	–	–	BOR	✓	–
PIC18F65K90	R	64	53	PIC18	32 KB 16 Kw	RW	2048	1024	1.8V-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	132	16	–	–	16	3	✓	–	–	–	5	3	–	–	–	–	4	4	–	2	2	–	–	–	BOR	✓	–
PIC18F65J50	R	64	49	PIC18	32 KB 16 Kw	RW	3904	–	2V-3.6V	48 MHz	8 MHz, 31 kHz	–	8	–	8	–	2	–	–	–	–	2	3	–	–	–	–	2	3	–	2	2	–	✓	–	BOR	✓	–
PIC18F66J11	R	64	50	PIC18	64 KB 32 Kw	RW	3904	–	2V-3.6V	48 MHz	8 MHz, 31 kHz	–	11	–	11	–	2	–	–	–	–	2	3	–	–	–	–	2	3	–	2	2	–	–	–	BOR	✓	–
PIC18F66J93	R	64	51	PIC18	64 KB 32 Kw	RW	3900	–	2V-3.6V	48 MHz	8 MHz, 31 kHz	132	12	–	–	12	2	✓	–	–	–	2	–	–	–	–	–	1	3	1	1	1	–	–	–	BOR	✓	–
PIC18F65K80	R	64	54	PIC18	32 KB 16 Kw	RW	3648	1024	1.8V-5.5V	64 MHz	8 MHz, 31 kHz	–	11	–	–	11	2	✓	–	–	–	4	1	–	–	–	–	2	3	–	2	1	–	–	✓	PBOR	✓	–
PIC18F66K22	R	64	53	PIC18	64 KB 32 Kw	RW	4096	1024	1.8V-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	–	16	–	–	16	3	✓	–	–	–	7	3	–	–	–	–	6	5	–	2	2	–	–	–	BOR	✓	–
PIC18F67J10	R	64	50	PIC18	128 KB 64 Kw	RW	3936	–	2V-3.6V	40 MHz	31 kHz	–	11	–	11	–	2	–	–	–	–	2	3	–	–	–	–	2	3	–	2	2	–	–	–	BOR	✓	–
PIC18F66K90	R	64	53	PIC18	64 KB 32 Kw	RW	4096	1024	1.8V-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	132	16	–	–	16	3	✓	–	–	–	7	3	–	–	–	–	6	5	–	2	2	–	–	–	BOR	✓	–
PIC18F66J50	R	64	49	PIC18	64 KB 32 Kw	RW	3904	–	2V-3.6V	48 MHz	8 MHz, 31 kHz	–	8	–	8	–	2	–	–	–	–	2	3	–	–	–	–	2	3	–	2	2	–	✓	–	BOR	✓	–
PIC18F67J11	R	64	50	PIC18	128 KB 64 Kw	RW	3904	–	2V-3.6V	48 MHz	8 MHz, 31 kHz	–	11	–	11	–	2	–	–	–	–	2	3	–	–	–	–	2	3	–	2	2	–	–	–	BOR	✓	–
PIC18F67K22	R	64	53	PIC18	128 KB 64 Kw	RW	4096	1024	1.8V-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	–	16	–	–	16	3	✓	–	–	–	7	3	–	–	–	–	6	5	–	2	2	–	–	–	BOR	✓	–
PIC18F66K80	R	64	54	PIC18	64 KB 32 Kw	RW	3648	1024	1.8V-5.5V	64 MHz	8 MHz, 31 kHz	–	11	–	–	11	2	✓	–	–	–	4	1	–	–	–	–	2	3	–	2	1	–	–	✓	PBOR	✓	–
PIC18F67J93	R	64	51	PIC18	128 KB 64 Kw	RW	3900	–	2V-3.6V	48 MHz	8 MHz, 31 kHz	132	12	–	–	12	2	✓	–	–	–	2	–	–	–	–	–	1	3	1	1	1	–	–	–	BOR	✓	–
PIC18F67K90	R	64	53	PIC18	128 KB 64 Kw	RW	4096	1024	1.8V-5.5V	64 MHz	31 kHz, 500 kHz, 16 MHz	132	16	–	–	16	3	✓	–	–	–	7	3	–	–	–	–	6	5	–	2	2	–	–	–	BOR	✓	–
PIC18F67J50	R	64	49	PIC18	128 KB 64 Kw	RW	3904	–	2V-3.6V	48 MHz	8 MHz, 31 kHz	–	8	–	8	–	2	–	–	–	–	2	3	–	–	–	–	2	3	–	2	2	–	✓	–	BOR	✓	–

(Left margin label: 64-Pin)

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)	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	10-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	I²C/SPI	Ethernet (MAC/PHY)	USB 2.0 Device	CAN	BOR/PBOR	PLVD	SR-Latch
80-Pin																																						
PIC18F83J11	R	80	70	PIC18	8 KB 4 Kw	RW	1024	–	2V-3.6V	40 MHz	8 MHz, 31 kHz	–	12	–	12	–	2	–	–	–	–	2	–	–	–	–	–	1	3	1	1	1	–	–	–	BOR	SW◊	–
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	✓	–
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◊	–
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	✓	–
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◊	–
PIC18F85K22 (XLP)	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	✓	–
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	✓	–
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	✓	–
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	✓	–
PIC18F85K90 (XLP)	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	✓	–
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	✓	–
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	✓	–
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	✓	–
PIC18F86K22 (XLP)	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	✓	–
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	✓	–
PIC18F86K90 (XLP)	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	✓	–
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	✓	–
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	✓	–
PIC18F87K22 (XLP)	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	✓	–
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	✓	–
PIC18F87K90 (XLP)	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	✓	–
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	✓	–
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	✓	–
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	✓	–
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	✓	–
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	✓	–
100-Pin																																						
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	✓	–
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	✓	–

Products sorted by pin count followed by pricing.
†Pricing subject to change; please contact your Microchip representative for most current pricing.
◊Software PLVD implemented via ADC.
*Integrated Temperature Indicator – Reference Application Note AN1333 for implementation.
🌱 – eXtreme Low Power variants available.

16-bit PIC® Microcontrollers (PIC24F)

Product	Released (R) Not Released (NR)	I/O Pins	Core	Program (KB)	Data RAM (B)	EEPROM	DMA #Ch	Voltage Range	Maximum MIPS	Internal Oscillator	Charge Time Measurement Unit	10-bit ADC	10/12-bit ADC 1100/500 KSPS	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	5 ku Pricing[†]	System F...
14-Pin																										
PIC24F04KL100	R	12	PIC24	4	512	AN1095[1]	–	1.8V-3.6V	16	8MHz, 32kHz	–	–	–	1	–	–	2	2	2	1 UART, 1 SPI/I²C (MSSP)	–	–	–	–	$1.06	BOR, HLV WDT, XLP
PIC24F04KA200	R	12	PIC24	4	512	AN1095[1]	–	1.8V3.6V	16	8 MHz, 32 kHz	✓	7	–	2	–	–	1	1	3	1 UART, 1 SPI, 1 I²C	–	–	–	–	$1.16	BOR, POR Deep Slee
PIC24F08KL200	R	12	PIC24	8	512	AN1095[1]	–	1.8V-3.6V	16	8MHz, 32kHz	–	7	–	1	–	–	2	2	2	1 UART, 1 SPI/I²C (MSSP)	–	–	–	–	$1.25	BOR, HLV WDT, XLP
20-Pin																										
PIC24F04KL101	R	17	PIC24	4	512	AN1095[1]	–	1.8V-3.6V	16	8MHz, 32kHz	–	–	–	1	–	–	2	2	2	1 UART, 1 SPI/I²C (MSSP)	–	–	–	–	$1.15	BOR, HLV WDT, XLP
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 I²C	–	–	–	–	$1.25	BOR, POR Deep Slee
PIC24F08KL201	R	17	PIC24	8	512	AN1095[1]	–	1.8V-3.6V	16	8MHz, 32kHz	–	12	–	1	–	–	2	2	2	1 UART, 1 SPI/I²C (MSSP)	–	–	–	–	$1.30	BOR, HLV WDT, XLP
PIC24F08KL301	R	18	PIC24	8	1024	256	–	1.8V-3.6V	16	8MHz, 32kHz	–	–	–	2	–	–	6	3	2	2 UART, 2 SPI/I²C (MSSP)	–	–	–	–	$1.27	BOR, HLV WDT, XLP
PIC24F08KL401	R	18	PIC24	8	1024	512	–	1.8V-3.6V	16	8MHz, 32kHz	–	12	–	2	–	–	6	3	2	2 UART, 2 SPI/I²C (MSSP)	–	–	–	–	$1.36	BOR, HLV WDT, XLP
PIC24F16KL401	R	18	PIC24	16	1024	512	–	1.8V-3.6V	16	8MHz, 32kHz	–	12	–	2	–	–	6	3	2	2 UART, 2 SPI/I²C (MSSP)	–	–	–	–	$1.43	BOR, HLV WDT, XLP
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 I²C	–	–	✓	–	$1.44	BOR, POR Deep Slee
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 I²C	–	–	✓	–	$1.51	BOR, POR Deep Slee
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 I²C	–	–	✓	✓	$1.57	BOR, POR
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 I²C	–	–	✓	–	$1.86	PWRT, HL OST, WDT
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 I²C	–	–	✓	–	$2.00	PWRT, HL OST, WDT
28-Pin																										
PIC24F08KL302	R	24	PIC24	8	1024	256	–	1.8V-3.6V	16	8MHz, 32kHz	–	–	–	2	–	–	6	3	2	2 UART, 2 SPI/I²C (MSSP)	–	–	–	–	$1.32	BOR, HLV WDT, XLP
PIC24F08KL402	R	24	PIC24	8	1024	512	–	1.8V-3.6V	16	8MHz, 32kHz	–	12	–	2	–	–	6	3	2	2 UART, 2 SPI/I²C (MSSP)	–	–	–	–	$1.40	BOR, HLV WDT, XLP
PIC24F16KL402	R	24	PIC24	16	1024	512	–	1.8V-3.6V	16	8MHz, 32kHz	–	12	–	2	–	–	6	3	2	2 UART, 2 SPI/I²C (MSSP)	–	–	–	–	$1.47	BOR, HLV WDT, XLP
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 I²C	–	–	✓	–	$1.51	BOR, POR Deep Slee
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 I²C	–	–	✓	–	$1.58	BOR, POR Deep Slee
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 I²C	–	–	✓	✓	$1.68	BOR, POR
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 I²C	–	✓	✓	✓	$1.74	BOR, LVD
PIC24FJ32GA002	R	21	PIC24	32	8192	AN1095[1]	–	2V-3.6V	16	8 MHz, 32 kHz	–	10	–	2	–	–	5	5	5	2 UART, 2 SPI, 2 I²C	–	✓	✓	✓	$2.06	BOR, LVD
PIC24F16KA302	R	24	PIC24	16	2048	512	–	1.8V-5.5V	16	8 MHz, 32 kHz	✓	–	10	3	–	–	3	3	5	2 UART, 2 SPI, 2 I²C	–	–	✓	–	$2.06	PWRT, HL OST, WDT
PIC24F32KA302	R	24	PIC24	32	2048	512	–	1.8V-5.5V	16	8 MHz, 32 kHz	✓	–	10	3	–	–	3	3	5	2 UART, 2 SPI, 2 I²C	–	–	✓	–	$2.20	PWRT, HL OST, WDT
PIC24FJ32GA102	R	21	PIC24	32	8192	AN1095[1]	–	2V-3.6V	16	8 MHz, 32 kHz	✓	10	–	3	–	–	5	5	5	2 UART, 2 SPI, 2 I²C	–	✓	✓	✓	$2.23	BOR, LVD Deep Slee
PIC24FJ32GB002	R	19	PIC24	32	8192	AN1095[1]	–	2V-3.6V	16	8 MHz, 32 kHz	✓	9	–	3	–	–	5	5	5	2 UART, 2 SPI, 2 I²C	✓	✓	✓	✓	$2.44	BOR, LVD Deep Slee
PIC24FJ64GA002	R	21	PIC24	64	8192	AN1095[1]	–	2V-3.6V	16	8 MHz, 32 kHz	–	10	–	2	–	–	5	5	5	2 UART, 2 SPI, 2 I²C	–	✓	✓	✓	$2.48	BOR, LVD
PIC24FJ64GA102	R	21	PIC24	64	8192	AN1095[1]	–	2V-3.6V	16	8 MHz, 32 kHz	✓	10	–	3	–	–	5	5	5	2 UART, 2 SPI, 2 I²C	–	✓	✓	✓	$2.65	BOR, LVD Deep Slee
PIC24FJ64GB002	R	19	PIC24	64	8192	AN1095[1]	–	2V-3.6V	16	8 MHz, 32 kHz	✓	9	–	3	–	–	5	5	5	2 UART, 2 SPI, 2 I²C	✓	✓	✓	✓	$2.86	BOR, LVD Deep Slee

*Parts available with High Temperature options (150ºC).
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	Program (KB)	Data RAM (B)	EEPROM	DMA #Ch	Voltage Range	Maximum MIPS	Internal Oscillator	Charge Time Measurement Unit	10-bit ADC	10/12-bit ADC 1100/500 KSPS	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	5 ku Pricing[†]	S...
44-Pin																										
PIC24FJ16GA004	R	35	PIC24	16	4096	AN1095[1]	–	2V-3.6V	16	8 MHz, 32 kHz	–	13	–	2	–	–	5	5	5	2 UART, 2 SPI, 2 I²C	–	✓	✓	✓	$1.93	BOR,
PIC24FJ32GA004	R	35	PIC24	32	8192	AN1095[1]	–	2V-3.6V	16	8 MHz, 32 kHz	–	13	–	2	–	–	5	5	5	2 UART, 2 SPI, 2 I²C	–	✓	✓	✓	$2.30	BOR,
PIC24F16KA304	R	38	PIC24	16	2048	512	–	1.8V-5.5V	16	8 MHz, 32 kHz	✓	–	16	3	–	–	3	3	5	2 UART, 2 SPI, 2 I²C	–	–	✓	–	$2.30	PWRT OST, V
PIC24FJ32GA104	R	35	PIC24	32	8192	AN1095[1]	–	2V-3.6V	16	8 MHz, 32 kHz	✓	13	–	3	–	–	5	5	5	2 UART, 2 SPI, 2 I²C	–	✓	✓	✓	$2.44	BOR, Deep S
PIC24F32KA304	R	38	PIC24	32	2048	512	–	1.8V-5.5V	16	8 MHz, 32 kHz	✓	–	16	3	–	–	3	3	5	2 UART, 2 SPI, 2 I²C	–	–	✓	–	$2.44	PWRT OST, V
PIC24FJ32GB004	R	33	PIC24	32	8192	AN1095[1]	–	2V-3.6V	16	8 MHz, 32 kHz	✓	13	–	3	–	–	5	5	5	2 UART, 2 SPI, 2 I²C	✓	✓	✓	✓	$2.65	BOR, Deep S
PIC24FJ64GA004	R	35	PIC24	64	8192	AN1095[1]	–	2V-3.6V	16	8 MHz, 32 kHz	–	13	–	2	–	–	5	5	5	2 UART, 2 SPI, 2 I²C	–	✓	✓	✓	$2.72	BOR,
PIC24FJ64GA104	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 I²C	–	✓	✓	✓	$2.86	BOR, Deep S
PIC24FJ64GB004	R	33	PIC24	64	8192	AN1095[1]	–	2V-3.6V	16	8 MHz, 32 kHz	✓	13	–	3	–	–	5	5	5	2 UART, 2 SPI, 2 I²C	✓	✓	✓	✓	$3.07	BOR, Deep S
64-Pin																										
PIC24FJ64GA306	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 I²C	–	✓	✓	✓	$2.77	BOR, XLP, D
PIC24FJ128GA306	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 I²C	–	✓	✓	✓	$3.00	BOR, XLP, D
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 I²C	–	✓	✓	–	$3.05	BOR,
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 I²C	–	✓	✓	✓	$3.32	BOR,
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 I²C	–	✓	✓	–	$3.35	BOR,
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 I²C	–	✓	✓	✓	$3.56	BOR,
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 I²C	✓	✓	✓	✓	$3.64	BOR,
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 I²C	✓	✓	✓	✓	$3.93	BOR,
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 I²C	–	✓	✓	✓	$3.98	BOR,
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 I²C	✓	✓	✓	✓	$4.30	BOR,
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 I²C	✓	–	✓	✓	$4.34	BOR,
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 I²C	✓	✓	✓	✓	$4.35	BOR,
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 I²C	✓	✓	✓	✓	$4.65	BOR,
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 I²C	✓	–	✓	✓	$4.69	BOR,
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 I²C	✓	–	✓	✓	$4.76	BOR,
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 I²C	✓	–	✓	✓	$5.11	BOR,
80-Pin																										
PIC24FJ64GA308	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 I²C	–	✓	✓	✓	$2.98	BOR, XLP, D
PIC24FJ128GA308	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 I²C	–	✓	✓	✓	$3.23	BOR, XLP, D
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 I²C	–	✓	✓	–	$3.30	BOR,
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 I²C	–	✓	✓	✓	$3.58	BOR,
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 I²C	–	✓	✓	–	$3.60	BOR,
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 I²C	–	✓	✓	✓	$3.82	BOR,
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 I²C	✓	✓	✓	✓	$3.91	BOR,

*Parts available with High Temperature options (150ºC).
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 | | | | LCD Segments | Graphics Controller | Output Compare/PWM | Input Capture | 16-bit Timer[2] | Communication | | | PMP | RTCC/CRC | PPS | 5 ku Pricing[1] | Sy |
					Program (KB)	Data RAM (B)	EEPROM	DMA #Ch		Maximum MIPS	Internal Oscillator	Charge Time Measurement Unit	10-bit ADC	10/12-bit ADC 1100/500 KSPS	Comparators						Digital Communication	USB 2.0 (Peripheral, Host, OTG)						
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 I²C	✓	✓	✓	✓	$4.20	BOR, LV
	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 I²C	–	✓	✓	✓	$4.24	BOR, LV
	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 I²C	✓	✓	✓	✓	$4.62	BOR, LV
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 I²C	–	✓	✓	✓	$3.16	BOR, LV Deep Sl
	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 I²C	–	✓	✓	✓	$3.42	BOR, LV Deep Sl
	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 I²C	–	✓	✓	–	$3.51	BOR, PC
	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 I2C	–	✓	✓	✓	$3.79	BOR, LV
	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 I²C	–	✓	✓	–	$3.81	BOR, PC
	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 I²C	–	✓	✓	✓	$4.03	BOR, LV
	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 I²C	✓	✓	✓	✓	$4.12	BOR, LV
	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 I²C	✓	✓	✓	✓	$4.41	BOR, LV
	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 I²C	–	✓	✓	✓	$4.45	BOR, LV
	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 I²C	✓	✓	✓	✓	$4.79	BOR, LV
	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 I²C	✓	✓	✓	✓	$4.83	BOR, LV
	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 I²C	✓	✓	✓	✓	$4.83	BOR, LV
	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 I²C	✓	✓	✓	✓	$5.14	BOR, LV
	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 I²C	✓	✓	✓	✓	$5.18	BOR, LV
	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 I²C	✓	✓	✓	✓	$5.25	BOR, LV
	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 I²C	✓	✓	✓	✓	$5.60	BOR, LV

*Parts available with High Temperature options (150ºC).
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	Program KB	Data RAM (B)	EEPROM	DMA #Ch	Voltage Range	Maximum MIPS	Internal Oscillator	Charge Time Measurement Unit	10-bit ADC	10/12-bit ADC 1100/500 KSPS	Comparators	Op Amps	Output Compare/PWM	Motor Control PWM Ch.	QEI	Input Capture	16-bit Timer[2]	Digital Communication	CAN	FS USB OTG	PMP	RTCC/CRC	PPS	5 ku Pricing[†]	System...
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^2C	–	–	–	–	✓	$2.09	PBOR,
28-Pin	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^2C	–	–	–	–	✓	$2.24	PBOR,
	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^2C	–	–	–	–	✓	$2.40	PBOR,
	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^2C	–	–	–	✓	✓	$2.45	PBOR,
	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^2C	–	–	–	✓	✓	$2.45	PBOR,
	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^2C	–	–	✓	✓	✓	$2.76	PBOR,
	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^2C	–	–	✓	✓	✓	$3.12	PBOR,
	PIC24EP256GP202	NR	21	PIC24	256	32768	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^2C	–	–	–	✓	✓	$3.14	PBOR,
	PIC24EP256MC202	NR	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^2C	–	–	–	✓	✓	$3.14	PBOR,
	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^2C	1	–	✓	✓	✓	$3.33	PBOR,
	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^2C	–	–	✓	✓	✓	$3.44	PBOR,
	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^2C	1	–	✓	✓	✓	$3.65	PBOR,
36-Pin	PIC24EP64GP203	NR	25	PIC24	64	8192	AN1095[1]	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	–	8 ch	1+3‡	3	4	–	–	4	5	2 UART, 2 SPI, 1 I^2C	–	–	–	✓	✓	$2.52	PBOR,
	PIC24EP64MC203	NR	25	PIC24	64	8192	AN1095[1]	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	–	8 ch	1+3‡	3	4	6	1	4	5	2 UART, 2 SPI, 1 I^2C	–	–	–	✓	✓	$2.52	PBOR,
	PIC24EP256GP203	NR	25	PIC24	256	32768	AN1095[1]	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	–	8 ch	1+3‡	3	4	–	–	4	5	2 UART, 2 SPI, 1 I^2C	–	–	–	✓	✓	$3.21	PBOR,
	PIC24EP256MC203	NR	25	PIC24	256	32768	AN1095[1]	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	–	8 ch	1+3‡	3	4	6	1	4	5	2 UART, 2 SPI, 1 I^2C	–	–	–	✓	✓	$3.21	PBOR,
44-Pin	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^2C	–	–	–	–	✓	$2.42	PBOR,
	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^2C	–	–	–	–	✓	$2.49	PBOR,
	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^2C	–	–	–	✓	✓	$2.59	PBOR,
	PIC24EP64MC204	R	35	PIC24	64	8192	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^2C	–	–	–	✓	✓	$2.59	PBOR,
	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^2C	–	–	✓	✓	✓	$2.82	PBOR,
	PIC24EP256GP204	NR	35	PIC24	256	32768	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^2C	–	–	–	✓	✓	$3.28	PBOR,
	PIC24EP256MC204	NR	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^2C	–	–	–	✓	✓	$3.28	PBOR,
	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^2C	–	–	✓	✓	✓	$3.29	PBOR,
	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^2C	1	–	✓	✓	✓	$3.58	PBOR,
	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^2C	–	–	✓	✓	✓	$3.58	PBOR,
	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^2C	1	–	✓	✓	✓	$3.88	PBOR,
64-Pin	PIC24EP64GP206	R	53	PIC24	64	8192	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^2C	–	–	–	✓	✓	$2.73	PBOR,
	PIC24EP64MC206	R	53	PIC24	64	8192	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^2C	–	–	–	✓	✓	$2.73	PBOR,
	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^2C	–	–	–	–	–	$3.39	PBOR,
	PIC24EP256GP206	NR	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^2C	–	–	–	✓	✓	$3.42	PBOR,
	PIC24EP256MC206	NR	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^2C	–	–	–	✓	✓	$3.42	PBOR,

*Parts available with High Temperature options (150ºC).
‡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	Program KB	Data RAM (B)	EEPROM	DMA #Ch	Voltage Range	Maximum MIPS	Internal Oscillator	Charge Time Measurement Unit	10-bit ADC	10/12-bit ADC 1100/500 KSPS	Comparators	Op Amps	Output Compare/PWM	Motor Control PWM Ch.	QEI	Input Capture	16-bit Timer[2]	Digital Communication	CAN	FS USB OTG	PMP	RTCC/CRC	PPS	5 ku Pricing[†]	Syste Fe
64-Pin (Cont.)	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 I²C	1	–	–	–	–	$3.60	PBOR, PO
	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 I²C	–	–	–	–	–	$3.63	PBOR, PO
	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 I²C	–	–	–	–	–	$3.79	PBOR, PO
	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 I²C	1	–	–	–	–	$3.85	PBOR, PO
	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 I²C	–	–	–	–	–	$4.05	PBOR, PO
	PIC24EP512GP806	NR	53	PIC24	536	53248	AN1095	15	3V-3.6V	70	7.37 MHz, 32 kHz	·	–	24 ch, 2-A/D	3	-	16	–	–	16	9	4 UART, 2 SPI, 2 I²C	2	–	✓	✓	✓	$5.60	PBOR, PO
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 I²C	–	–	–	–	–	$3.88	PBOR, PO
	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 I²C	1	–	–	–	–	$4.06	PBOR, PO
	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 I²C	–	–	–	–	–	$4.14	PBOR, PO
	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 I²C	–	–	–	–	–	$4.26	PBOR, PO
	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 I²C	1	–	–	–	–	$4.31	PBOR, PO
	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 I²C	–	–	–	–	–	$4.63	PBOR, PO
	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 I²C	2	–	–	–	–	$5.08	PBOR, PO
	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 I²C	2	1	✓	✓	✓	$5.70	BOR, PO
	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 I²C	2	1	✓	✓	✓	$6.37	BOR, PO
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 I²C	2	1	✓	✓	✓	$6.31	BOR, PO
	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 I²C	2	1	✓	✓	✓	$6.99	BOR, PO

*Parts available with High Temperature options (150ºC).
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 (NR)	I/O Pins	Core	Flash KB + Boot Flash	Data RAM (KB)	EEPROM	DMA Channels General/Dedicated	Voltage Range	Maximum Speed (MHz)	Internal Oscillator	Charge Time Measurement Unit	ADC 10-bit 1000 ksps	Comparators	IC/OC/PWM	Timers 16/32-bit	SPI/I²S	I²C™	UARTs	FS USB	Ethernet	CAN	PMP	RTCC	Peripheral Pin Select (PPS)	5 ku Pricing†	System Features
28-Pin																										
PIC32MX110F016B	R	21	PIC32	16+3	4	AN1095	4/0	2.3V-3.6V	40	8 MHz, 32 KHz	✓	10 ch	3	5/5/5	5/2	2/2	2	2	–	–	–	✓	✓	✓	$1.65	POR, BOR,
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,
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,
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,
PIC32MX130F064B	NR	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,
PIC32MX150F128B	NR	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,
PIC32MX230F064B	NR	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,
PIC32MX250F128B	NR	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,
36-Pin																										
PIC32MX110F016C	NR	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,
PIC32MX210F016C	NR	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,
PIC32MX120F032C	NR	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,
PIC32MX220F032C	NR	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,
PIC32MX130F064C	NR	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,
PIC32MX150F128C	NR	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,
PIC32MX230F064C	NR	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,
PIC32MX250F128C	NR	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,
44-Pin																										
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,
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,
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,
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,
PIC32MX130F064D	NR	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,
PIC32MX150F128D	NR	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,
PIC32MX230F064D	NR	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,
PIC32MX250F128D	NR	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,
64-Pin																										
PIC32MX320F032H	R	51	PIC32	32+12	8	AN1095(1)	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,
PIC32MX320F064H	R	51	PIC32	64+12	16	AN1095(1)	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,
PIC32MX420F032H	R	51	PIC32	32+12	8	AN1095(1)	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,
PIC32MX320F064H	R	51	PIC32	64+12	16	AN1095(1)	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,
PIC32MX320F128H	R	51	PIC32	128+12	16	AN1095(1)	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,
PIC32MX534F064H	R	51	PIC32	64+12	16	AN1095(1)	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,
PIC32MX340F128H	R	51	PIC32	128+12	32	AN1095(1)	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,
PIC32MX564F064H	R	51	PIC32	64+12	32	AN1095(1)	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,
PIC32MX440F128H	R	51	PIC32	128+12	32	AN1095(1)	4/2	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	2/0	2	2	OTG	–	–	✓	✓	–	$4.23	POR, BOR,
PIC32MX340F256H	R	51	PIC32	256+12	32	AN1095(1)	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,
PIC32MX564F128H	R	51	PIC32	128+12	32	AN1095(1)	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,
PIC32MX664F064H	R	51	PIC32	64+12	32	AN1095(1)	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,

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

Products sorted by pin count followed by pricing.
†Pricing subject to change; please contact your Microchip representative for most current pricing.

32-bit PIC32 Microcontrollers

	Product	Released (R) Not Released (NR)	I/O Pins	Core	Flash KB + Boot Flash	Data RAM (KB)	EEPROM	DMA Channels General/Dedicated	Voltage Range	Maximum Speed (MHz)	Internal Oscillator	Charge Time Measurement Unit	ADC 10-bit 1000 ksps	Comparators	IC/OC/PWM	Timers 16/32-bit	SPI/FS	I²C	UARTs	FS USB	Ethernet	CAN	PMP	RTCC	Peripheral Pin Select (PPS)
64-Pin (Cont.)	PIC32MX440F256H	R	51	PIC32	256+12	32	AN1095(1)	4/2	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	2/0	2	2	OTG	–	–	✓	✓	–
	PIC32MX664F128H	R	51	PIC32	128+12	32	AN1095(1)	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	–	✓	✓	–
	PIC32MX764F128H	R	51	PIC32	128+12	32	AN1095(1)	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	✓	✓	–
	PIC32MX340F512H	R	51	PIC32	512+12	32	AN1095(1)	4/0	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	2/0	2	2	–	–	–	✓	✓	–
	PIC32MX575F256H	R	51	PIC32	256+12	64	AN1095(1)	8/4	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	3/0	4	6	OTG	–	1	✓	✓	–
	PIC32MX440F512H	R	51	PIC32	512+12	32	AN1095(1)	4/2	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	2/0	2	2	OTG	–	–	✓	✓	–
	PIC32MX675F256H	R	51	PIC32	256+12	64	AN1095(1)	8/4	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	3/0	4	6	OTG	10/100	–	✓	✓	–
	PIC32MX575F512H	R	51	PIC32	512+12	64	AN1095(1)	8/4	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	3/0	4	6	OTG	–	1	✓	✓	–
	PIC32MX775F256H	R	51	PIC32	256+12	64	AN1095(1)	8/8	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	3/0	4	6	OTG	10/100	2	✓	✓	–
	PIC32MX675F512H	R	51	PIC32	512+12	64	AN1095(1)	8/4	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	3/0	4	6	OTG	10/100	–	✓	✓	–
	PIC32MX775F512H	R	51	PIC32	512+12	64	AN1095(1)	8/8	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	3/0	4	6	OTG	10/100	2	✓	✓	–
	PIC32MX695F512H	R	51	PIC32	512+12	128	AN1095(1)	8/4	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	3/0	4	6	OTG	10/100	–	✓	✓	–
	PIC32MX795F512H	R	51	PIC32	512+12	128	AN1095(1)	8/8	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	3/0	4	6	OTG	10/100	2	✓	✓	–
100-Pin	PIC32MX534F064L	R	85	PIC32	64+12	16	AN1095(1)	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	✓	✓	–
	PIC32MX320F128L	R	85	PIC32	128+12	16	AN1095(1)	0/0	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	2/0	2	2	–	–	–	✓	✓	–
	PIC32MX340F128L	R	85	PIC32	128+12	32	AN1095(1)	4/0	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	2/0	2	2	–	–	–	✓	✓	–
	PIC32MX564F064L	R	85	PIC32	64+12	32	AN1095(1)	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	✓	✓	–
	PIC32MX440F128L	R	85	PIC32	128+12	32	AN1095(1)	4/2	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	2/0	2	2	OTG	–	–	✓	✓	–
	PIC32MX360F256L	R	85	PIC32	256+12	32	AN1095(1)	4/0	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	2/0	2	2	–	–	–	✓	✓	–
	PIC32MX564F128L	R	85	PIC32	128+12	32	AN1095(1)	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	✓	✓	–
	PIC32MX664F064L	R	85	PIC32	64+12	32	AN1095(1)	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	–	✓	✓	–
	PIC32MX460F256L	R	85	PIC32	256+12	32	AN1095(1)	4/2	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	2/0	2	2	OTG	–	–	✓	✓	–
	PIC32MX664F128L	R	85	PIC32	128+12	32	AN1095(1)	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	–	✓	✓	–
	PIC32MX764F128L	R	85	PIC32	128+12	32	AN1095(1)	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	✓	✓	–
	PIC32MX360F512L	R	85	PIC32	512+12	32	AN1095(1)	4/0	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	2/0	2	2	–	–	–	✓	✓	–
	PIC32MX575F256L	R	85	PIC32	256+12	64	AN1095(1)	8/4	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	–	1	✓	✓	–
	PIC32MX460F512L	R	85	PIC32	512+12	32	AN1095(1)	4/2	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	2/0	2	2	OTG	–	–	✓	✓	–
	PIC32MX675F256L	R	85	PIC32	256+12	64	AN1095(1)	8/4	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	10/100	–	✓	✓	–
	PIC32MX575F512L	R	85	PIC32	512+12	64	AN1095(1)	8/4	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	–	1	✓	✓	–
	PIC32MX775F256L	R	85	PIC32	256+12	64	AN1095(1)	8/8	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	10/100	2	✓	✓	–
	PIC32MX675F512L	R	85	PIC32	512+12	64	AN1095(1)	8/4	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	10/100	–	✓	✓	–
	PIC32MX775F512L	R	85	PIC32	512+12	64	AN1095(1)	8/8	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	10/100	2	✓	✓	–
	PIC32MX695F512L	R	85	PIC32	512+12	128	AN1095(1)	8/4	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	10/100	–	✓	✓	–
	PIC32MX795F512L	R	85	PIC32	512+12	128	AN1095(1)	8/8	2.3V-3.6V	80	8 MHz, 32 kHz	–	16 ch	2	5/5/5	5/1	4/0	5	6	OTG	10/100	2	✓	✓	–

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

Products sorted by pin count followed by pricing.
†Pricing subject to change; please contact your Microchip representative for most current pricing.

dsPIC30F DSC Families

	Product	Released (R) / Not Released (NR)	I/O Pins	Core	Program KB	Data RAM (B)	EEPROM	Voltage Range	Maximum Speed MIPS	Internal Oscillator	ADC	DAC	Comparators	Output Compare/PWM	Input Capture	Motor Control PWM Ch	Power Supply PWM Ch	QEI	Codec (I²S, AC97)	16-bit Timer[1]	Digital Communication	CAN	5 ku Pricing†	System Mgmt Features
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 I²C	–	$2.68	PBOR, LVD
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 I²C	–	$2.43	PBOR, LVD
	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 I²C	–	$2.77	PBOR, LVD
	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 I²C	1	$3.71	PBOR, LVD
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 I²C	1	$3.91	PBOR, LVD
	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 I²C	1	$4.02	PBOR, LVD
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 I²C	1	$5.08	PBOR, LVD
	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 I²C	2	$6.89	PBOR, LVD
80-Pin	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 I²C	1	$5.59	PBOR, LVD
	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 I²C	2	$7.25	PBOR, LVD
	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 I²C	2	$7.36	PBOR, LVD

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

dsPIC33 DSC General Purpose Family

	Product	Released (R) / Not Released (NR)	I/O Pins	Core	Program KB	Data RAM (B)	EEPROM	DMA #Ch	Voltage Range	Maximum Speed MIPS	Internal Oscillator	Charge Time Measurement Unit	ADC 10/12-bit 1100/500 ksps	DAC	Comparators	Op Amps	Output Compare/PWM	Input Capture	Codec (I²S, AC97)	16-bit Timer[2]	Digital Communication	CAN	PMP	RTCC/CRC	PPS	5 ku Pricing†	Sys
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 I²C	–	–	✓	✓	$1.57	BOR,
	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 I²C	–	–	–	✓	$2.09	PBOR
28-Pin	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 I²C	–	–	✓	✓	$1.68	BOR,
	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 I²C	–	–	–	✓	$2.24	PBOR
	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 I²C	–	–	–	✓	$2.56	PBOR
	dsPIC33EP64GP502	R	21	dsPIC	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 I2C	1	–	✓	✓	$2.66	PBOR
	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 I²C	–	–	–	✓	$2.76	PBOR
	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 I²C	–	✓	–	✓	$3.12	PBOR
	dsPIC33EP256GP502	NR	21	dsPIC	256	32768	AN1095	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	6 ch	–	1 +2‡	2	4	4	–	5	2 UART, 2 SPI, 1 I²C	1	–	✓	✓	$3.14	PBOR
	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 I²C	1	✓	✓	✓	$3.42	PBOR
	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 I²C	–	✓	✓	✓	$3.44	PBOR
	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 I²C	1	✓	✓	✓	$3.72	PBOR
36-Pin	dsPIC33EP64GP503	NR	25	dsPIC	64	8192	AN1095[1]	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	8 ch	–	1 +3‡	3	4	4	–	5	2 UART, 2 SPI, 1 I²C	1	–	✓	✓	$2.73	PBOR
	dsPIC33EP256GP503	NR	25	dsPIC	256	32768	AN1095[1]	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	8 ch	–	1 +3‡	3	4	4	–	5	2 UART, 2 SPI, 1 I²C	1	–	✓	✓	$3.21	PBOR

*Parts available with High Temperature options (150ºC).
‡Op amp configured as comparator.
Note 1: See Application Note "AN1095 - Emulating Data EEPROM".
    2: Two 16-bit timers can be concatenated to form a 32-bit timer.

Products sorted by pin count followed by pricing.
†Pricing subject to change; please contact your Microchip representative for most current pricing.

dsPIC33 DSC General Purpose Family

Product	Released (R) Not Released (NR)	I/O Pins	Core	Program KB	Data RAM (B)	EEPROM	DMA #Ch	Voltage Range	Maximum Speed MIPS	Internal Oscillator	Charge Time Measurement Unit	ADC 10/12-bit 1100/500 ksps	DAC	Comparators	Op Amps	Output Compare/PWM	Input Capture	Codec (I²S, AC97)	16-bit Timer[2]	Digital Communication	CAN	PMP	RTCC/CRC	PPS	5 ku Pricing†
44-Pin																									
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 I²C	–	–	–	✓	$2.58
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 I²C	–	–	–	✓	$2.66
dsPIC33EP64GP504	R	35	dsPIC	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 I²C	1	–	✓	✓	$2.80
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 I²C	–	–	–	✓	$3.01
dsPIC33EP256GP504	NR	35	dsPIC	256	32768	AN1095	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	9 ch	–	1 +3‡	3	4	4	–	5	2 UART, 2 SPI, 1 I²C	1	–	✓	✓	$3.28
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 I²C	–	✓	–	✓	$3.29
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 I²C	–	✓	✓	✓	$3.58
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 I²C	1	✓	✓	✓	$3.65
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 I²C	1	✓	✓	✓	$3.96
64-Pin																									
dsPIC33EP64GP506	R	53	dsPIC	64	8192	AN1095	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	16 ch	–	1 +3‡	3	4	4	–	5	2 UART, 2 SPI, 1 I²C	1	–	✓	✓	$2.94
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 I²C	–	–	–	–	$3.39
dsPIC33EP256GP506	NR	53	dsPIC	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 I²C	1	–	✓	✓	$3.42
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 I²C	–	–	–	–	$3.53
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 I²C	–	–	–	–	$3.63
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 I²C	–	–	–	–	$3.79
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 I²C	2	–	–	–	$4.14
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 I²C	1	–	–	–	$4.20
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 I²C	2	–	–	–	$4.40
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 I2C	2	✓	✓	✓	$5.60
80-Pin																									
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 I²C	2	–	–	–	$4.44
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 I²C	2	–	–	–	$4.69
100-Pin																									
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 I²C	–	–	–	–	$3.99
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 I²C	–	–	–	–	$4.26
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 I²C	2	–	–	–	$4.61
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 I²C	1	–	–	–	$4.66
dsPIC33FJ128GP710A*	R	85	dsPIC	128	16384	AN1095(1)	8	3V-3.6V	40	7.37 MHz, 32 kHz	–	32 ch 2ADC	–	–	–	8	8	1	9	2 UART, 2 SPI, 2 I²C	2	–	–	–	$4.86
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 I²C	2	–	–	–	$5.32

*Parts available with High Temperature options (150ºC).
‡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	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	Motor Control PWM Ch	QEI	16-bit Timer(2)	Digital Communication	CAN	FS USB OTG	PMP	RTCC/CRC	PPS	5 ku Pricing†
20-Pin	dsPIC33FJ16MC101	R	15	dsPIC®	16	1024	AN1095(1)	–	3V-3.6V	16	7.37 MHz, 32 kHz	✓	4 ch (10-bit)	–	3	–	2	3	6	–	3	1 UART, 1 SPI, 1 I²C	–	–	–	✓	✓	$1.57
	dsPIC33FJ12MC201	R	15	dsPIC	12	1024	AN1095(1)	–	3V-3.6V	40	7.37 MHz, 32 kHz	–	4 ch	–	–	–	2	4	4+2	1	3	1 UART, 1 SPI, 1 I²C	–	–	–	–	✓	$2.09
28-Pin	dsPIC33FJ16MC102	R	21	dsPIC	16	1024	AN1095(1)	–	3V-3.6V	16	7.37 MHz, 32 kHz	✓	6 ch (10-bit)	–	3	–	3	3	6	–	3	1 UART, 1 SPI, 1 I²C	–	–	–	✓	✓	$1.68
	dsPIC33FJ12MC202	R	21	dsPIC	12	1024	AN1095(1)	–	3V-3.6V	40	7.37 MHz, 32 kHz	–	6 ch	–	–	–	2	4	6+2	1	3	1 UART, 1 SPI, 1 I²C	–	–	–	✓	✓	$2.31
	dsPIC33EP64MC202	R	21	dsPIC	64	8192	AN1095	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	6 ch	–	1 +2‡	2	4	4	6	1	5	2 UART, 2 SPI, 1 I²C	–	–	–	✓	✓	$2.45
	dsPIC33FJ32MC202*	R	21	dsPIC	32	2048	AN1095(1)	–	3V-3.6V	40	7.37 MHz, 32 kHz	–	6 ch	–	–	–	2	4	6+2	1	3	1 UART, 1 SPI, 1 I²C	–	–	–	–	✓	$2.63
	dsPIC33EP64MC502	R	21	dsPIC	64	8192	AN1095	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	6 ch	–	1 +2‡	2	4	4	6	1	5	2 UART, 2 SPI, 1 I²C	1	–	–	✓	✓	$2.66
	dsPIC33FJ32MC302	R	21	dsPIC	32	4096	AN1095(1)	–	3V-3.6V	40	7.37 MHz, 32 kHz	–	6 ch	–	2	–	4	4	6+2	2	5	2 UART, 2 SPI, 1 I²C	–	–	✓	–	✓	$2.87
	dsPIC33EP256MC202	NR	21	dsPIC	256	32768	AN1095(1)	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	6 ch	–	1 +2‡	2	4	4	6	1	5	2 UART, 2 SPI, 1 I²C	–	–	–	✓	✓	$3.14
	dsPIC33FJ64MC202	R	21	dsPIC	64	8192	AN1095(1)	8	3V-3.6V	40	7.37 MHz, 32 kHz	–	6 ch	–	2	–	4	4	6+2	2	5	2 UART, 2 SPI, 1 I²C	–	–	✓	✓	✓	$3.29
	dsPIC33EP256MC502	NR	21	dsPIC	256	32768	AN1095(1)	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	6 ch	–	1 +2‡	2	4	4	6	1	5	2 UART, 2 SPI, 1 I²C	1	–	–	✓	✓	$3.35
	dsPIC33FJ64MC802*	R	21	dsPIC	64	16384	AN1095(1)	8	3V-3.6V	40	7.37 MHz, 32 kHz	–	6 ch	–	2	–	4	4	6+2	2	5	2 UART, 2 SPI, 1 I²C	1	–	✓	✓	✓	$3.50
	dsPIC33FJ128MC202	R	21	dsPIC	128	8192	AN1095(1)	8	3V-3.6V	40	7.37 MHz, 32 kHz	–	6 ch	–	2	–	4	4	6+2	2	5	2 UART, 2 SPI, 1 I²C	–	–	✓	✓	✓	$3.57
	dsPIC33FJ128MC802*	R	21	dsPIC	128	16384	AN1095(1)	8	3V-3.6V	40	7.37 MHz, 32 kHz	–	6 ch	–	2	–	4	4	6+2	2	5	2 UART, 2 SPI, 1 I²C	1	–	✓	✓	✓	$3.82
36-Pin	dsPIC33EP64MC203	NR	25	dsPIC	64	8192	AN1095(1)	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	8 ch	–	1 +3‡	3	4	4	6	1	5	2 UART, 2 SPI, 1 I²C	–	–	–	✓	✓	$2.52
	dsPIC33EP64MC503	NR	25	dsPIC	64	8192	AN1095(1)	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	8 ch	–	1 +3‡	3	4	4	6	1	5	2 UART, 2 SPI, 1 I²C	1	–	–	✓	✓	$2.73
	dsPIC33EP256MC203	NR	25	dsPIC	256	32768	AN1095(1)	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	8 ch	–	1 +3‡	3	4	4	6	1	5	2 UART, 2 SPI, 1 I²C	–	–	–	✓	✓	$3.21
	dsPIC33EP256MC503	NR	25	dsPIC	256	32768	AN1095(1)	4	3V-3.6V	70	7.37 MHz, 32 kHz	✓	8 ch	–	1 +3‡	3	4	4	6	1	5	2 UART, 2 SPI, 1 I²C	1	–	–	✓	✓	$3.42
44-Pin	dsPIC33EP64MC204	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 I²C	–	–	–	✓	✓	$2.59
	dsPIC33FJ16MC304*	R	35	dsPIC	16	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 I²C	–	–	–	–	✓	$2.65
	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 I²C	–	–	–	–	✓	$2.76
	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 I²C	1	–	–	✓	✓	$2.80
	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 I²C	–	–	✓	–	✓	$3.12
	dsPIC33EP256MC204	NR	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 I²C	–	–	–	✓	✓	$3.28
	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 I²C	–	–	✓	✓	✓	$3.39
	dsPIC33EP256MC504	NR	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 I²C	1	–	–	✓	✓	$3.49
	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 I²C	–	–	✓	✓	✓	$3.68
	dsPIC33FJ64MC804*	R	35	dsPIC	64	16384	AN1095(1)	8	3V-3.6V	40	7.37 MHz, 32 kHz	–	9 ch	2 x 16-bit @ 100 (ksps)	2	–	4	4	6+2	2	5	2 UART, 2 SPI, 1 I²C	1	–	✓	✓	✓	$3.89
	dsPIC33FJ128MC804*	R	35	dsPIC	128	16384	AN1095(1)	8	3V-3.6V	40	7.37 MHz, 32 kHz	–	9 ch	2 x 16-bit @ 100 (ksps)	2	–	4	4	6+2	2	5	2 UART, 2 SPI, 1 I²C	1	–	✓	✓	✓	$4.23
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 I²C	–	–	–	✓	✓	$2.73
	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 I²C	1	–	–	✓	✓	$2.94
	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 I²C	–	–	–	✓	✓	$3.42

*Parts available with High Temperature options (150ºC).
†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.

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dsPIC33 DSC Motor Control and Power Conversion Family

Pin Group	Product	Released (R) / Not Released (NR)	I/O Pins	Core	Program KB	Data RAM (B)	EEPROM	DMA #Ch	Voltage Range	Maximum Speed MIPS	Internal Oscillator	Charge Time Measurement Unit	ADC 10/12-bit 1100/500 ksps	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
64-Pin (Cont.)	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 I²C	1	–	–	✓	✓
	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 I²C	1	–	–	–	–
	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 I²C	1	–	–	–	–
	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 I²C	1	–	–	–	–
	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 I²C	1	–	–	–	–
	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 I²C	2	1	✓	✓	✓
	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 I²C	2	–	✓	✓	✓
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 I²C	1	–	–	–	–
	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 I²C	2	–	–	–	–
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 I²C	1	–	–	–	–
	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 I²C	1	–	–	–	–
	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 I²C	2	–	–	–	–
	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 I²C	1	–	–	–	–
	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 I²C	2	–	–	–	–
	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 I²C	2	–	–	–	–
	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 I²C	2	1	✓	✓	✓
	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 I²C	2	1	✓	✓	✓
144-Pin	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 I²C	2	1	✓	✓	✓
	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 I²C	2	1	✓	✓	✓

*Parts available with High Temperature options (150ºC).
†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 SMPS and Digital Power Conversion Family

	Product	Released (R) Not Released (NR)	I/O Pins	Core	Program KB	Data RAM (B)	EEPROM	DMA #Ch	Voltage Range	Maximum Speed MIPS	Internal Oscillator	ADC 10-bit 2000/4000 ksps	DAC	Comparators	Output Compare/PWM	Input Capture	Power Supply PWM Ch[1]	QEI	16-bit Timer[2]	Digital Communication	CAN	PMP	RTCC	PPS	5 ku Pricing[†]
18-Pin	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 I²C	–	–	–	✓	$1.96
28-Pin	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 I²C	–	–	–	✓	$2.20
28-Pin	dsPIC33FJ06GS202	R	21	dsPIC	6	1024	AN1095[1]	–	3V-3.6V	40	7.37 MHz, 32 kHz	6 ch	2 x 10-bit	2	1	1	4	–	2	1 UART, 1 SPI, 1 I²C	–	–	–	✓	$2.38
28-Pin	dsPIC33FJ16GS402	R	21	dsPIC	16	2048	AN1095[1]	–	3V-3.6V	40	7.37 MHz, 32 kHz	8 ch	–	–	2	2	6	–	3	1 UART, 1 SPI, 1 I²C	–	–	–	✓	$2.52
28-Pin	dsPIC33FJ16GS502	R	21	dsPIC	16	2048	AN1095[1]	–	3V-3.6V	40	7.37 MHz, 32 kHz	8 ch, 2 ADC*	4 x 10-bit	4	2	2	8	–	3	1 UART, 1 SPI, 1 I²C	–	–	–	✓	$3.04
44-Pin	dsPIC33FJ16GS404	R	35	dsPIC	16	2048	AN1095[1]	–	3V-3.6V	40	7.37 MHz, 32 kHz	8 ch	–	–	2	2	6	–	3	1 UART, 1 SPI, 1 I²C	–	–	–	✓	$2.77
44-Pin	dsPIC33FJ16GS504	R	35	dsPIC	16	2048	AN1095[1]	–	3V-3.6V	40	7.37 MHz, 32 kHz	12 ch, 2 ADC*	4 x 10-bit	4	2	2	8	–	3	1 UART, 1 SPI, 1 I²C	–	–	–	✓	$3.42
64-Pin	dsPIC33FJ32GS406	R	58	dsPIC	32	4096	AN1095[1]	–	3V-3.6V	40	7.37 MHz, 32 kHz	16 ch	–	–	4	4	12	1	5	2 UART, 2 SPI, 2 I²C	–	–	–	–	$3.07
64-Pin	dsPIC33FJ64GS406	R	58	dsPIC	64	8192	AN1095[1]	–	3V-3.6V	40	7.37 MHz, 32 kHz	16 ch	–	–	4	4	12	1	5	2 UART, 2 SPI, 2 I²C	–	–	–	–	$3.35
64-Pin	dsPIC33FJ32GS606	R	58	dsPIC	32	4096	AN1095[1]	–	3V-3.6V	40	7.37 MHz, 32 kHz	16 ch, 2 ADC*	4 x 10-bit	4	4	4	12	2	5	2 UART, 2 SPI, 2 I²C	–	–	–	–	$3.36
64-Pin	dsPIC33FJ64GS606	R	58	dsPIC	64	9216	AN1095[1]	4	3V-3.6V	40	7.37 MHz, 32 kHz	16 ch, 2 ADC*	4 x 10-bit	4	4	4	12	2	5	2 UART, 2 SPI, 2 I²C	1	–	–	–	$3.81
80-Pin	dsPIC33FJ32GS608	R	74	dsPIC	32	4096	AN1095[1]	–	3V-3.6V	40	7.37 MHz, 32 kHz	18 ch, 2 ADC*	4 x 10-bit	4	4	4	16	2	5	2 UART, 2 SPI, 2 I²C	–	–	–	–	$3.85
80-Pin	dsPIC33FJ64GS608	R	74	dsPIC	64	9216	AN1095[1]	4	3V-3.6V	40	7.37 MHz, 32 kHz	18 ch, 2 ADC*	4 x 10-bit	4	4	4	16	2	5	2 UART, 2 SPI, 2 I²C	1	–	–	–	$4.34
100-Pin	dsPIC33FJ32GS610	R	85	dsPIC	32	4096	AN1095[1]	–	3V-3.6V	40	7.37 MHz, 32 kHz	24 ch, 2 ADC*	4 x 10-bit	4	4	4	18	2	5	2 UART, 2 SPI, 2 I²C	–	–	–	–	$4.41
100-Pin	dsPIC33FJ64GS610	R	85	dsPIC	64	9216	AN1095[1]	4	3V-3.6V	40	7.37 MHz, 32 kHz	24 ch, 2 ADC*	4 x 10-bit	4	4	4	18	2	5	2 UART, 2 SPI, 2 I²C	1	–	–	–	$4.89

*Parts available with High Temperature options (150ºC).
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.

Thermal Management – Temperature Sensors

Product	Typical Accuracy (°C)	Max. Accuracy @ 25°C (°C)	Max. Temperature Range (°C)	Vcc Range (V)	Max. Op Current (µA)	Features
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
MCP9509/10	±0.5	NS	-40 to +125	+2.7 to +5.5	50	Resistor-programmable temperature switch
MCP9700/01	±1	±4	-40 to +125	+2.3 to +5.5	12	Linear Active Thermistor® IC
MCP9700/01A	±1	±2	-40 to +125	+2.3 to +5.5	12	Linear Active Thermistor® IC
TC1046	±0.5	±2	-40 to +125	+2.7 to +4.4	60	High precision temperature-to-voltage converter, 6.25 mV/°C
TC1047A	±0.5	±2	-40 to +125	+2.5 to +5.5	60	High precision temperature-to-voltage converter, 10 mV/°C
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
MCP9800/1/2/3	±0.5	±1	-55 to +125	+2.7 to +5.5	400	SMbus/I²C™ compatible interface, 0.0625°C to 0.5°C adj. resolution, Power-saving one-shot temperature measurement
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
MCP9843	±0.5	±1	-20 to +125	+3.0 to +3.6	400	JEDEC compatible register set, SMbus/I²C™ compatible interface, Programmable, Shut-down modes and EVENT output
MCP98243	±1	±3	-40 to +125	+3.0 to +3.6	500	Serial output temperature sensor with integrated EEPROM
TCN75A	±0.5	±2	-40 to +125	+2.7 to +5.5	500	SMbus/I²C™ compatible interface, Power-saving one-shot temperature measurement, Multi-drop capability, 0.0625°C to 0.5...

Power Management – Switching Regulators/PWM Controllers

Product	Input Voltage Range (V)	Output Voltage (V)	Operating Temperature Range (°C)	Control Scheme	Switching Frequency (kHz)	Typical Active Current (µA)	Output Current (mA)	Features
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
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
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
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, Overvol...
MCP1640/B/C/D	0.65 to 6	2.0 to 5.5	-40 to +85	PWM or PWM/PFM	500	19	350	Integrated synchronous boost regulator, -.65V start-up voltage, Soft-start, True load disconnect or input-to-output bypass option
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
MCP1301	4.0 to 30	2.0 to 15	-40 to +85	PWM	500	2000	600	Integrated N-channel, UVLO, Soft-start, Over-temperature protection
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
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
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

Power Management – Linear Regulators

Product	Max. Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Typical Active Current (µA)	Typical Dropout Voltage @ Max. Iout (mV)	Typical Output Voltage Accuracy (%)	Features
TC1016/17	6	1.8 to 4.0	80/150	53	150/285	±0.5	Shutdown
TC1301A/B	6	1.5 to 3.3	LDO1: 300 LDO2: 150	103/114	LDO1: 104 LDO2: 150	±0.5	Dual LDO plus Reset output, Shutdown, Reference bypass, Voltage...
TC1302AB	6	1.5 to 3.3	LDO1: 300 LDO2: 150	103/114	LDO1: 104 LDO2: 150	±0.5	Dual LDO, Shutdown, Reference bypass, Voltage detect
TC2014/5, TC2185	6	1.8 to 5.0	50/100/150	55	45/90/140	±0.4	Shutdown, Reference bypass input
TC2054/5, TC2186	6	1.8 to 5.0	50/100/150	55	45/90/140	±0.4	Shutdown, Error output
MCP1700	6	1.2 to 5.0	250	1.6	300	±0.4	Very low Io
MCP1702/3	13.2/16	1.2 to 5.0	250	2	330/625	±0.4	Very low Io
MCP1725/6/7	6	0.8 to 5.0	500/1000/1500	120/140/140	210/300/330	±0.5	Shutdown, CDELAY, Power Good
MCP1754/S	16	1.8 to 5.5	150	56	300	± 0.4	Power Good, Shutdown
MCP1790/1	30	3.0, 3.3, 5.0	70	70	500	±0.2	Load dump, Shutdown, Power Good
MCP1801/2	10	0.9 to 6.0	150/300	25	250/800	±0.4	Shutdown, High PSRR
MCP1804	28	1.8 to 18	150	50	300	±0.5	Shutdown, High PSRR
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
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

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)	
TC1044S	1.5 to 12	-V$_{IN}$ or 2*V$_{IN}$	-40 to +85	160	20	85 kHz oscillator B
TC7660	1.5 to 10	-V$_{IN}$ or 2*V$_{IN}$	-40 to +85	180	20	10 kHz oscillator
TC7660H	1.5 to 10	-V$_{IN}$ or 2*V$_{IN}$	-40 to +85	1000	20	120 kHz oscillator
TC7660S	1.5 to 12	-V$_{IN}$ or 2*V$_{IN}$	-40 to +85	160	20	45 kHz oscillator B
TC7662B	1.5 to 15	-V$_{IN}$ or 2*V$_{IN}$	-40 to +85	180	20	35 kHz oscillator B
TC7662A	3.0 to 18	-V$_{IN}$ or 2*V$_{IN}$	-40 to +85	200	40	12 kHz oscillator
MCP1256	1.8 to 3.6	3.3	-40 to +85	100	100	Power Good Sleep
MCP1257	1.8 to 3.6	3.3	-40 to +85	100	100	Sleep mode low ba
MCP1258	1.8 to 3.6	3.3	-40 to +85	100	100	Low battery indica

Power Management – CPU/System Supervisors

Product	Description	Operating Temp Range (°C)	Features	
MCP11(1/2) TC5(1/2/3/4)	System Voltage Detectors (No Reset Delay)	-40 to +125 -40 to +85	Wide Vcc input range, Wide detection range (custom options available), Low current, CMOS/Push-Pull active low reset options	5-SOT-23, 3
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

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/
MCP1401/02 Single	Inverting/Non-inverting	-40 to +125	0.5	18/16	18	
MCP1415/16 Single	Inverting/Non-inverting	-40 to +125	1.5	7.5/5.5	18	
TC4467/8/9 Quad	Inverting/ Non-inverting	-40 to +85	1.2	15/15	18	
TC4426A/27A/28A Dual	Inverting/Non-inverting	-40 to +125	1.5	9/9	18	
TC4423A/24A/25A Dual	Inverting/Non-inverting	-40 to +125	3	3 (typ.)/4 (typ.)	18	40
MCP14E3/E4/E5 Dual	Inverting/Non-inverting	-40 to +125	4	3.5/3.0	18	
MCP14E6/E7/E8 Dual	Inverting/Non-inverting/Inverting and Non-inverting	-40 to +125	2	2.2/2.8	18	
MCP14E9/E10/E11 Dual	Inverting/Non-inverting/Inverting and Non-inverting	-40 to +125	3	2.2/2.8	18	
MCP1406/07 Single	Inverting/Non-inverting	-40 to +125	6	1.8/2.0 (typ.)	18	
TC4420/29	Inverting/Non-inverting	-40 to +125	6	2.8/2.5	18	
TC4421A/22A Single	Inverting /Non-inverting	-40 to +125	9	1.25 (typ.)/1.5	18	
TC4451/52 Single	Inverting /Non-inverting	-40 to +125	12	0.6 (typ.)/1.5	18	
TC4431/32 Single	Inverting /Non-inverting	-40 to +85	1.5	10/10	30	

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/Ou
MCP14700/14628	Dual input/Single input	-40 to +85	2	2.5/2.5	5 (V$_{DD}$), 36 (Boot Pin)	

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
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, The
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
MCP73830/L	Linear	Li-ion/Li-Polymer	1	3.75 to 6	4.2	1000/200	±0.75	Int	Soft-start, Charge enable pin
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 Tri-state or open-drain STAT pin
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, Therm output or Timer enable input
MCP73871	Linear	Li-Ion/Li-Polymer	1	3.75 to 6.0	4.2, 4.35, 4.4, 4.5	1500 (A/C Adapter) 500 (USB)	±0.5	Int	Simultaneous charging of load and battery, Multiple programmable charge currents

Linear – Op Amps

Product	# per Package	GBWP (MHz)	Io Typical (µA)	Vos Max (mV)	Operating Voltage (V)	Packages		Product	# per Package	GBWP (MHz)	Io Typical (µA)	Vos Max (mV)
MCP661/2/3/4/5/9	1/2/1/4/2/4	60	6000	8	2.5 to 5.5	SOIC, MSOP, DFN, TSSOP, QFN, SOT		MCP6071/2/4	1/2/4	1.2	110	0.15
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
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
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
MCP6021/2/3/4	1/2/1/4	10	1000	0.5	2.5 to 5.5	PDIP, SOIC, MSOP, TSSOP, SOT		MCP6L01/2/4	1/2/4	1	85	5
MCP6291/2/3/4/5	1/2/1/4/2	10	1000	3	2.4 to 6.0	PDIP, SOIC, MSOP, TSSOP, SOT		MCP6061/2/4	1/2/4	0.73	60	0.15
MCP6L91/2/4	1/2/4	10	850	4	2.4 to 6.0	SOIC, MSOP, TSSOP, SOT		MCP6241/2/4	1/2/4	0.55	50	5
MCP6281/2/3/4/5	1/2/1/4/2	5	445	3	2.2 to 6.0	PDIP, SOIC, MSOP, TSSOP, SOT		MCP6051/2/4	1/2/4	0.385	30	0.15
MCP6286	1	3.5	540	1.5	2.2 to 5.5	SOT		MCP6231/2/4	1/2/4	0.3	20	5
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
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
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
MCP6L71/2/4	1/2/4	2	150	4	2.0 to 6.0	SOIC, MSOP, TSSOP, SOT		MCP6041/2/3/4	1/2/1/4	0.014	0.6	3
MCP6V01/2/3	1/2/1	1.3	300	0.002	1.8 to 5.5	SOIC, DFN, TDFN		MCP6031/2/3/4	1/2/1/4	0.01	0.9	0.15
MCP6V06/7/8	1/2/1	1.3	300	0.003	1.8 to 5.5	SOIC, DFN, TDFN		MCP6441/2/4	1/2/4	0.009	0.45	4.5
MCP6V26/7/8	1/2/1	2	620	0.002	2.3 to 5.5	SOIC, MSOP, DFN						

Linear – Comparators

Product	# per Package	Typical Propagation Delay (µs)	Io Typical (µA)	Vos Max (mV)	Operating Voltage (V)	Temperature Range (°C)	Features
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
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/Out
MCP65R41/6	1	4	2.5	10	1.8 to 5.5	-40 to +125	Integrated VREF (1.21V or 2.4V)
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
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

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)	Temp
MCP3021/3221	10/12	22	1	Single-ended	I²C™	250	
MCP3001/2/4/8	10	200	1/2/4/8	Single-ended	SPI	500-550	
MCP3201/2/4/8	12	100	1/2/4/8	Single-ended	SPI	400-550	
MCP3301/2/4	13	100	1/2/4	Differential	SPI	450	

Mixed Signal – Digital-to-Analog Converters

Product	Resolution (Bits)	DAC Channels	Interface	Voltage Reference	Output Settling Time (µs)	DNL (±LSB)	Typical Operating Current (µA)
MCP4706/16/26	8/10/12	1	I²C™	Ext	6	.05/.188/.75	210
MCP4725	12	1	I²C™	V$_{DD}$	6	0.75	175
MCP4728	12	4	I²C™	Int	6	0.75	250
MCP4801/11/21	8/10/12	1	SPI	Int	4.5	0.5/0.5/0.75	330
MCP4802/12/22	8/10/12	2	SPI	Int	4.5	0.5/0.5/0.75	415
MCP4901/11/21	8/10/12	1	SPI	Ext	4.5	0.5/0.5/0.75	175
MCP4902/12/22	8/10/12	2	SPI	Ext	4.5	0.5/0.5/0.75	350
TC1320/1	8/10	1	SMbus	Ext	10	0.8/2	350

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)
MCP3910/11	24-bit resolution	94.5 dB SINAD	2	up to 32	SPI/2-wire	1.7	2.7 to 3.6	2.7 to 3.6
MCP3903	24-bit resolution	91 dB SINAD	6	up to 32	SPI	8.3	4.5 to 5.5	2.7 to 3.6
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
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

Mixed Signal – Digital Potentiometers

Product	# of Taps	Memory	Channels	Interface	Resistance (kΩ)	Temperature Range (°C)	Packages	Product	# of Taps	Memory	Channels	Interface
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
MCP4017/18/19	128	Volatile	1	I²C™	5, 10, 50, 100	-40 to +125	SC70	MCP4351/52	257	Volatile	4	SPI
MCP40D17/D18/D19	128	Volatile	1	I²C™	5, 10, 50, 100	-40 to +125	SC70	MCP4431/32	129	Volatile	4	I²C™
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	I²C™
MCP4141/42	128	Nonvolatile	1	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN	MCP4451/52	257	Volatile	4	I²C™
MCP4241/42	128	Nonvolatile	2	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN	MCP4461/62	257	Nonvolatile	4	I²C™
MCP4131/32	128	Volatile	1	SPI	5, 10, 50, 100	-40 to +125	QFN, DFN	MCP4531/32	128	Volatile	1	I²C™
MCP4231/32	128	Volatile	2	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN	MCP4631/32	128	Volatile	2	I²C™
MCP4151/52	256	Volatile	1	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN	MCP4541/42	128	Nonvolatile	1	I²C™
MCP4161/62	256	Nonvolatile	1	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN	MCP4641/42	128	Nonvolatile	2	I²C™
MCP4251/52	256	Volatile	2	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN	MCP4551/52	256	Volatile	1	I²C™
MCP4261/62	256	Nonvolatile	2	SPI	5, 10, 50, 100	-40 to +125	MSOP, QFN, DFN	MCP4651/52	256	Volatile	2	I²C™
MCP4341/42	129	Nonvolatile	4	SPI	5,10,50,100	-40 to +125	TSSOP, QFN	MCP4561/62	256	Nonvolatile	1	I²C™
MCP4361/62	257	Nonvolatile	4	SPI	5,10,50,100	-40 to +125	TSSOP, QFN	MCP4661/62	256	Nonvolatile	2	I²C™

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)	
MCP3421/2/3/4	18 to 12	4 to 240	1/2/2/4 Diff	I²C™	155	-40 to +125	PGA
MCP3425/6/7/8	16 to 12	15 to 240	1/2/2/4 Diff	I²C™	155	-40 to +125	PGA
MCP3550/1/3	22	13/14/60	1 Diff	SPI	120	-40 to +125	50 &

Interface – Controller Area Network (CAN), Infrared, LIN Transceivers, Ethernet, Serial Peripherals, USB

Product	Description	Operating Temperature Range (°C)	Other Features
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
MCP2551	CAN (Controller Area Network), High-speed CAN transceiver	-40 to +125	1 Mbps max. CAN bus speed, ISO11898 compatible, Industry standard pinout
MCP202(1/2)	LIN (Local Interconnect Network), LIN transceiver with voltage regulator	-40 to +125	V_{REG} = 3.3V or 5V @ 50 mA, V_{CC} Range = 7 to 18V, Max Baud Rate = 20 Kbaud, Compliant with LIN 1.3, 2.0, 2.1, SA
MCP200(3/4)A	Stand-alone LIN transceiver	-40 to +125	V_{CC} Range = 6 to 27V, Max Baud Rate = 20 Kbaud, Compliant with LIN 1.3, 2.0, 2.1, SAE J2602, Automotive approv
MCP23X09/18	8-bit I/O port expander, 16-bit I/O port expander	-40 to +125	I^2C (up to 3.4 MHz) or SPI (up to 10 MHz) interface, 25 mA source/sink per I/O
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 enco
MCP2200	UART-to-USB protocol converter	-40 to +85	Supports full speed, USB 2.0 compliant, Integrated PHY, Tx/Rx Buffer size 128 bytes each, 8 GPIO, V_{DD} Range = 3.0
MCP2210	USB-to-SPI protocol converter	-40 to +85	Supports full speed, USB 2.0 compliant, Integrated PHY, Tx/Rx Buffer size 64 bytes each, 9 GPIO, V_{DD} Range = 3.3
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
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
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

Interface – mTouch™ AR1000 Resistive Touch Screen Controllers

Product	Type	Communication	Touch Screens Supported	A/D	Resolution	Power	Points per second	Baud Rate	Operating Temperature Range (°C)	Static Protection	5 ku Pricin
AR1010	Analog Resistive	UART	All Manufacturers 4, 5 and 8 wire	Internal 10-bit Ratiometric	1024 X 1024	3.3V DC ±5% 5.5V DC ±5%	140 pps	Standard 9600	-40 to +85	Per schematic	$1.39
AR1020	Analog Resistive	SPI, I^2C™	All Manufacturers 4, 5 and 8 wire	Internal 10-bit Ratiometric	1024 X 1024	3.3V DC ±5% 5.5V DC ±5%	140 pps	Standard 9600	-40 to +85	Per schematic	$1.39

Safety & Security – Smoke Detector and Horn Driver ICs

Product	Horn Driver	Detection Method	Low Battery Detection	Alarm Memory	Alarm Interconnect	Hush/Sensitivity Timer	Operati
RE46C140/1/3/4/5	Yes	Photo	Yes	No	Yes	140/4/5	
RE46C12X & 152	Yes	Ion	Yes	No	Not 120	122/7,152	
RE46C10X & 11X	Yes	Just Driver	5/7/9/19	NA	9/19	None	
RE46C162/3, 5/6/7/8	Yes	Ion/Photo	Yes	Yes	Yes	Yes	
RE46C180	Yes	Ion	Yes	Yes	Yes	Yes	
RE46C190	Yes	Photo	Yes	Yes	Yes	Yes	

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	Temperature Operating Range (°C)	
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 Dri Allegro 6219
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 Dri Allegro 2916
MTD6505	3-Phase Brushelss 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 Sensorles Coefficient Range
MTD6501C	3-Phase Brushless DC Motor	2.0 to 14.0	Internal	800	Sensorless Sinusoidal	Frequency Generator	Overcurrent, Short Circuit Overtemperature, Motor Lock-up	-30 to +95	180° Sinusoidal Sensorles
MTD6501D	3-Phase Brushelss DC Motor	2.0 to 14.0	Internal	500	Sensorless Sinusoidal	Frequency Generator	Overcurrent, Short Circuit Overtemperature, Motor Lock-up	-30 to +95	180° Sinusoidal Sensorles
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 Sensorles

Real-Time Clock/Calendar (RTCC)

Bus	Product	Timing Features				Memory[1]			Power		Unique Features[2]	Pins	
		Digital Trimming (Adj/Range)	Alarm Settings	WDT	Outputs	SRAM (Bytes)	EEPROM (Kbits)	ID/MAC (Bits)	Minimum Voltages	I_{BAT} (nA)			
I²C™	MCP7941X	± 127 ppm/+1 ppm	2 (1 sec.)	–	MFP ($\overline{IRQ}$/CLK)	64	1	64	V_{CC}: 1.8V, V_{BAT}: 1.3V	<700	Power Fail Timestamp	8	S
I²C™	MCP7940X	± 127 ppm/+1 ppm	2 (1 sec.)	–	MFP ($\overline{IRQ}$/CLK)	64	0	64	V_{CC}: 1.8V, V_{BAT}: 1.3V	<700	Power Fail Timestamp	8	S
I²C™	MCP7940N	± 127 ppm/+1 ppm	2 (1 sec.)	–	MFP ($\overline{IRQ}$/CLK)	64	0	0	V_{CC}: 1.8V, V_{BAT}: 1.3V	<700	Power Fail Timestamp	8	S
I²C™	MCP7940M	± 127 ppm/+1 ppm	2 (1 sec.)	–	MFP ($\overline{IRQ}$/CLK)	64	0	0	V_{CC}: 1.8V	–	–	8	P
SPI	MCP795W2X	± 255 ppm/+1 ppm	2 (0.01 sec.)	✓	1. CLK 2. IRQ 3. WDT RST	64	2	128	V_{CC}: 1.8V, V_{BAT}: 1.3V	<700	Power Fail Timestamp, Event Detects (x2)	14	S
SPI	MCP795W1X	± 255 ppm/+1 ppm	2 (0.01 sec.)	✓	1. CLK 2. IRQ 3. WDT RST	64	1	128	V_{CC}: 1.8V, V_{BAT}: 1.3V	<700	Power Fail Timestamp, Event Detects (x2)	14	S
SPI	MCP795B2X	± 255 ppm/+1 ppm	2 (0.01 sec.)	✓	1. CLK 2. IRQ 3. WDT RST	64	2	128	V_{CC}: 1.8V, V_{BAT}: 1.3V	<700	Power Fail Timestamp, Event Detects (x2), 32 KHz Boot Clock	14	S
SPI	MCP795B1X	± 255 ppm/+1 ppm	2 (0.01 sec.)	✓	1. CLK 2. IRQ 3. WDT RST	64	1	128	V_{CC}: 1.8V, V_{BAT}: 1.3V	<700	Power Fail Timestamp, Event Detects (x2), 32 KHz Boot Clock	14	S
SPI	MCP7952X	± 255 ppm/+1 ppm	2 (0.01 sec.)	–	MFP ($\overline{IRQ}$/CLK)	64	2	128	V_{CC}: 1.8V, V_{BAT}: 1.3V	<700	Power Fail Timestamp	10	M
SPI	MCP7951X	± 255 ppm/+1 ppm	2 (0.01 sec.)	–	MFP ($\overline{IRQ}$/CLK)	64	1	128	V_{CC}: 1.8V, V_{BAT}: 1.3V	<700	Power Fail Timestamp	10	M

1. All part numbers with an "X" have 3 ID programming options: 0 = Blank ID; 1 = EUI-48™ MAC Address; 2 = EUI-64™ MAC Address
2. The Power Fail Timestamp in all RTCCs occur at Battery Switchover.

Serial Memory Products

Bus	Product	Released (R) Not Released (NR)	Density	Organization	Max. Clock Frequency	Operating Voltage	Temperature Range	E/W Endurance (Minimum)	Data Retention (Minimum)	Max. Write Speeds	Max. Standby Current (@5.5V, 85°C)	Write Protect Hardware	Write Protect Software	Protected Array Size	5 ku Pricing[†]	Special/Unique Features	
Serial SRAM																	
SPI	23X640	R	64 Kb	x8	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), TSSC
	23X256	R	256 Kb	x8	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), TSSC
	23XX512	NR	512 Kb	x8	20 MHz	1.5V-1.95V 2.7V-3.6V 4.5V-5.5V	-40°C to +125°C	∞	Volatile or Non-Volatile	0 ms	4 µA	–	–	–	Call for Pricing	Non-Volatile RAM: Battery backup available, Fast speed: Quad SPI available, Infinite endurance, Zero write times	SOIC (SN), TSSOP (ST)
	23XX1024	NR	1024 Kb	x8	20 MHz	1.5V-1.95V 2.7V-3.6V 4.5V-5.5V	-40°C to +125°C	∞	Volatile or Non-Volatile	0 ms	4 µA	–	–	–	$1.73	Non-Volatile RAM: Battery backup available, Fast speed: Quad SPI available, Infinite endurance, Zero write times	SOIC (SN), TSSOP (ST)
Serial EEPROM																	
UNI/O® Bus	11XX010	R	1 Kb	x8	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), MSO
	11XX020/E48	R	2 Kb	x8	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), MSO
	11XX040	R	4 Kb	x8	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), MSO
	11XX080	R	8 Kb	x8	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), MSO
	11XX160	R	16 Kb	x8	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), MSO
I²C™	24XX00	R	128 b	x8	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), TSSC
	24XX01/014	R	1 Kb	x8	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), TSSC
	24XX02/024/E48	R	2 Kb	x8	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), TSSC
	34XX02	R	2 Kb	x8	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), TSSC
	24XX00	R	128 b	x8	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), TSSC
	24XX01/014	R	1 Kb	x8	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), TSSC
	24XX02/024/E48	R	2 Kb	x8	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), TSSC
	34XX02	R	2 Kb	x8	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), TSSC
	24XX04	R	4 Kb	x8	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), TSSC
	24XX08	R	8 Kb	x8	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), TSSC
	24XX16	R	16 Kb	x8	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), TSSC
	24XX32A	R	32 Kb	x8	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), TSSC
	24XX64/65	R	64 Kb	x8	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), TSSC
	24XX128	R	128 Kb	x8	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), TSSC
	24XX256	R	256 Kb	x8	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), TSSC
	24XX512	R	512 Kb	x8	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), TSSC
	24XX1025/26	R	1 Mb	x8	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), SOIJ
	24XX1024	NR	1 Mb	x8	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), TSSC

1. All devices are Pb-Free and RoHS compliant.
2. ESD protection > 4 kV (HBM); >400V (MM) on all pins.
3. Write Protect (WP): W = Whole Array, ½ = Half Array, ¼ = Quarter Array.
4. Factory program and unique ID options available.
5. Die and wafer options available on all devices.
† - Pricing subject to change; please contact your Microchip representative for most current pricing.

Serial Memory Products

Bus	Product	Released (R) Not Released (NR)	Density	Organization	Max. Clock Frequency	Operating Voltage	Temperature Range	E/W Endurance (Minimum)	Data Retention (Minimum)	Max. Write Speeds	Max. Standby Current (@5.5V, 85°C)	Write Protect Hardware	Write Protect Software	Protected Array Size	5 ku Pricing[†]	Special/Unique Features	
Serial EEPROM (Cont.)																	
Microwire	93XX46A/B/C	R	1 Kb	x8/x16	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
	93XX56A/B/C	R	2 Kb	x8 / x16	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
	93XX66A/B/C	R	4 Kb	x8 / x16	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
	93XX76A/B/C	R	8 Kb	x8/x16	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
	93XX86A/B/C	R	16 Kb	x8/x16	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
SPI	25XX010A	R	1 Kb	x8	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
	25XX020A/E48	R	2 Kb	x8	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
	25XX040A	R	4 Kb	x8	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
	25XX080C/D	R	8 Kb	x8	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
	25XX160C/D	R	16 Kb	x8	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
	25XX320A	R	32 Kb	x8	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
	25XX640A	R	64 Kb	x8	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
	25XX128	R	128 Kb	x8	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
	25XX256	R	256 Kb	x8	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
	25XX512	R	512 Kb	x8	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
	25XX1024	R	1 Mb	x8	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)

1. All devices are Pb-Free and RoHS compliant.
2. ESD protection > 4 kV (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 (Typical)	Data Retention (Minimum)	Write Speed (Typical)	Max. Standby Current	Write Protect Hardware	Write Protect Software	Protected Array Size	Special/Unique Features
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, prog...
x1	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, prog...
x1	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, prog...
x1	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, prog...
x1	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, prog...
x1	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, prog...
x1	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, prog...
x1	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, prog...
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 p... One-time programmable area, Fast read, program an...
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... Individual block read and write protection. Fast read, p...
X4	SST26VF032	R	32 Mb	4M x 8	80 MHz	2.7-3.6V	-40°C to +85°C	100,000 cycles (minimum)	100 years	1 ms (Page Program)	8 μA	✓	✓	Various	SQI™ Quad I/O read/program/erase, Burst read, Index... Individual block read and write protection. Fast read, p...
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, Individual block read and write protection, Fast read, p...
x1, x2, x4	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, Individual block read and write protection, Fast read, p...
x1, x2, x4	SST26WF032B	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, Individual block read and write protection, Fast read, p...
x1, x2, x4	SST26WF064B	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, Individual block read and write protection, Fast read, p...

*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 (Typical)	Data Retention (Minimum)	Write Speed (Typical)	Max. Standby Current	Write Protect Hardware	Write Protect Software	Protected Array Size	Special/Unique Features
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 a...
X4	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 a...
X4	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... Specification 1.1, provide protection for the storage an...
X4	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... Specification 1.1, provide protection for the storage an...

SST Parallel Flash Memory

Bus	Product*	Released (R) Not Released (NR)	Density	Organization	Read Access Speed	Operating Voltage	Temperature Range	E/W Endurance (Typical)	Data Retention (Minimum)	Write Speed (Typical)	Write Protect Max. Standby Current	Hardware	Software	Protected Array Size	Special/Unique Features
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
	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
	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
	SST39LF020	R	2 Mb	512K x 8	45/55 ns	3.0-3.6V	0°C to 70°C	100,000 cycles	100 years	14 µs (Byte Program)	1 µA	–	–	N/A	Fast read, program and erase, Low power, Small erase sector
	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
	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
	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
	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
	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
	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
x16	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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
	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

*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

WLAN Power Amplifiers

Product	Description	Frequency (GHz)	PA/Tx Gain (dB)	Linear Power (dBm)	% EVM	Voltage Range (V)	LNA/Rx Gain (dB)
SST11CP15-QUBE	WLAN 11a/n PA (Low Current)	5	25.5-28.5	18.5 21	3.0% 3.0%	3.3 5	–
SST11LP12-QCF	WLAN 11a/n PA (High Power)	5	35	21	3.0%	3.3	–
SST12LP07A-QXBE	WLAN 11b/g/n PA	3.4	28	20.5	3.0%	3.3	–
SST12CP11-QVCE	WLAN 11b/g/n PA (Ultra High Power)	2.4	34	25	3.0%	5	–
SST12LP07-QVCE-MM007	WLAN 11b/g/n PA	2.4	29	19.5	3.0%	3.3	–
SST12LP08A-QX8E	WLAN 11b/g/n High Gain PA	2.4	29	20.5	3.0%	3.3	–
SST12LP08-QX6E	WLAN 11b/g/n High Gain PA	2.4	30	20	3.0%	3.3	–
SST12LP08-QXBE	WLAN 11b/g/n High Gain PA	2.4	30	20	3.0%	3.3	–
SST12LP14A-QVCE	WLAN 11b/g PA	2.4	29	21	3.0%	3.3	–
SST12LP14C-QVCE	WLAN 11b/g PA	2.4	32	20	4.0%	3.3	–
SST12LP14E-QX6E	WLAN 11b/g/n PA (Low Current)	2.4	23	19	3.0%	3.3	–
SST12LP14E-QX8E	WLAN 11b/g/n PA (Low Current)	2.4	23	19	3.0%	3.3	–
SST12LP14-QVCE	WLAN 11b/g PA	2.4	30	20	4.0%	3.3	–
SST12LP15A-QVCE	WLAN 11b/g/n PA (High Power)	2.4	32	22	3.0%	3.3	–
SST12LP15B-QVCE	WLAN 11b/g/n PA (High Power)	2.4	32	22	<3%	3.3	–
SST12LP18E-QX8E	WLAN 11b/g/n PA (Low Current /Low Voltage)	2.4	25	18	3.0%	3.3	–
SST12LP19E-QX6E	WLAN 11b/g/n PA (Low Current)	2.4	25	20	3.0%	3.3	–
SST12LP19E-QX8E	WLAN 11b/g/n PA (Low Current)	2.4	25	20	3.0%	3.3	–

WLAN Power Amplifier Modules

Product	Description	Frequency (GHz)	PA/Tx Gain (dB)	Linear Power (dBm)	% EVM	Voltage Range (V)	LNA/Rx Gain (dB)
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	–
SST12LP17E-QU8E	WLAN 11b/g/n 50 Ω Matched PAM	2.4	29	18	<3%	3.3	–

Front End Modules

Product	Description	Frequency (GHz)	PA/Tx Gain (dB)	Linear Power (dBm)	% EVM	Voltage Range (V)	LNA/Rx Gain (dB)
SST12LF01-QDE	WLAN 11b/g FEM (PA+LNA)	2.4	29	19	3.0%	3.3	14
SST12LF02-QXCE	WLAN 11b/g/n FEM (PA+SP3T)	2.4	29	18.5	3.0%	3.3	-0.5

Low-Noise Amplifer

Product	Description	Frequency (GHz)	PA/Tx Gain (dB)	Linear Power (dBm)	% EVM	Voltage Range (V)	LNA/Rx Gain (dB)
SST12LN01-QU6E	WLAN 2.4 GHz LNA	2.4	–	–	–	3.3	14

Wireless Products

IEEE 802.11 Modules

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	Encryption
MRF24WB0MA	36	2.412-2.484	-91	10	Yes	156	85	25 MHz	0.1	Yes	802.11	WPA, WPA2, WE
MRF24WB0MB	36	2.412-2.484	-91	10	Yes	156	85	25 MHz	0.1	Yes	802.11	WPA, WPA2, WE

IEEE 802.15.4 Transceivers/Modules

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	Encryption
MRF24J40	40	2.405-2.48	-95	0	Yes	23	19	20 MHz	2 µA	Yes	CSMA-CA	AES128
MRF24J40MA	12	2.405-2.48	-95	0	Yes	23	19	20 MHz	2 µA	Yes	CSMA-CA	AES128
MRF24J40MB	12	2.405-2.48	-102	20	Yes	130	25	20 MHz	5 µA	Yes	CSMA-CA	AES128
MRF24J40MC	12	2.405-2.48	-108	20	Yes	120	25	20 MHz	12 µA	Yes	CSMA-CA	AES128

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
MRF49XA	16	433/868/915	-110	7	Yes	15 mA @ 0 dBm	11	10 MHz	0.3 µA
MRF89XA	32	868/915/950	-113	12.5	Yes	25 mA @ 0 dBm	3	12.8 MHz	0.1 µA
MRF89XAM8A	12	868	-113	12.5	Yes	25 mA @ 0 dBm	3	12.8 MHz	0.1 µA
MRF89XAM9A	12	915	-113	12.5	Yes	25 mA @ 0 dBm	3	12.8 MHz	0.1 µA

rfPIC™ Transmitters + PIC® MCUs

Product	I/O Pins	Frequency Range (MHz)	Program Words	EEPROM	RAM (bytes)	Digital Timer	Watch Dog Timer	Max. Speed (MHz)	ICSP™	Modulation	Data Rate (kbps)	Output Power (dBm)
PIC12F529T48A	6	418-868	1024 X 1.5	-	201	1	1	8	Yes	OOK/FSK	100	10
PIC12F529T48AT	6	418-868	1024 X 1.5	-	201	1	1	8	Yes	OOK/FSK	100	10
PIC12F529T39A	6	310-928	1024 X 1.5	-	201	1	1	8	Yes	OOK/FSK	100	10
PIC12F529T39AT	6	310-928	1024 X 1.5	-	201	1	1	8	Yes	OOK/FSK	100	10
PIC12LF1840T48A	6	418-868	1024 x 4	256	256	2	1	32	Yes	OOK/FSK	100	10
PIC12LF1840T48AT	6	418-868	1024 x 4	256	256	2	1	32	Yes	OOK/FSK	100	10
PIC12LF1840T39A	6	310-928	1024 x 4	256	256	2	1	32	Yes	OOK/FSK	100	10
PIC12LF1840T39AT	6	310-928	1024 x 4	256	256	2	1	32	Yes	OOK/FSK	100	10
rfPIC12F675F	6	380-450	1024 x 12	128	64	1	1	20	Yes	ASK/FSK	40	10
rfPIC12F675H	6	850-930	1024 x 12	128	64	1	1	20	Yes	ASK/FSK	40	10
rfPIC12F675K	6	290-350	1024 x 12	128	64	1	1	20	Yes	ASK/FSK	40	10

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

Terms and Definitions

1 KB	1024 bytes
1 Kw	1024 words
18F/PIC18	16-bit instruction word – 75/83 instructions
ADC	Analog to Digital Converter
AUSART	Addressable Universal Synchronous Asynchronous Receiver Transceiver
BL/Baseline	12-bit instruction word – 33 instructions
BOR/PBOR	Brown Out Reset/Programmable Brown Out Reset
CAN	Controller Area Network
CCP/ECCP	Capture Compare PWM/Enhanced Capture Compare PWM
CLC	Configurable Logic Cell
COG	Complementary Output Generator
Comp	Capacitive Sensing implemented via Comparator
CRC	Cyclical Redundancy Check
CSM	mTouch – Capacitive Sensing Module
CSP	Chip Scale Package
CTMU	mTouch – Charge Time Measurement Unit

CVD	Charge Voltage Divide (Capacitive Sensing Implemented via ADC)
CWG	Complementary Waveform Generator
DAC	Digital-to-Analog Converter
DSM	Data Signal Modulator
dsPIC®	16-bit Core with DSP
EEPROM	Electrically Erasable Programmable Read Only Memory
EFT	Electrical Fast Transient
EMC	Electromagnetic Compatibility
EMI	Electromagnetic Interference
EMR/Enhanced-Mid-Range	14-bit instruction word – 49 instructions (denoted as PIC1XF1XXX)
ESD	Electrostatic Discharge
EUSART	Enhanced Universal Synchronous Asynchronous Receiver Transceiver
EWDT/WDT	Extended Watch Dog Timer/Watch Dog Timer
HV	High Voltage

ICD	In-Circuit Debug
ICE	In-Circuit Emulation
ICSP™	In-Circuit Serial Programming™
IDE	Integrated Development Environment
Inst Amp	Instrumentation Amplifier
LCD	Liquid Crystal Display
LDO	Low Drop-Out voltage regulator
LF	Low Power Flash
M²C/I²C	Master Inter-Integrated Circuit bus/Inter-Integrated Circuit bus
MIPS	Million Instructions Per Second
MR/Mid-Range	14-bit instruction word – 35 instructions
MSSP/SSP	Master/Synchronous Serial Port (I²C & SPI Peripheral)
mTouch™	Proprietary Touch Sensing Technology
NCO	Numerically Controlled Oscillator
Op Amp	Operational Amplifier
PIC10/12/16/18	8-bit Core
PIC24	16-bit Core

Product Packages

Small Outline

Bumped Die
(WLCSP)

Die/Wafer
(WLCSP)

3-lead SC70 (LB)

5-lead SC70 (LT)

3-lead SOT-23 (TT/CB)

5-lead SOT-23 (OT)

6-lead SOT-23 (OT/CH)

3-SOT-223 (DB)

4-lead SOT-143 (RC)

3-lead DDPAK (EB)

5-lead DDPAK (ET)

3-lead SOT-89

3-lead TO-92 (TO/ZB)

5-lead TO-220 (AT)

Dual Flat No Lead
DFN

8-lead DFN (MC)
2 x 3 x 0.9 mm

8-lead TDFN (MN)
2 x 3 x 0.75 mm

8-lead UDFN (MU)
2 x 3 x 0.5 mm

8-lead DFN (MF)
3 x 3 x 0.9 mm

8-lead DFN (MD)
4 x 4 x 0.9 mm

8-lead DFN (MF)
6 x 5 x 0.9 mm

Quad Flat No Lead
QFN

16-lead QFN (MG)
3 x 3 x 0.9 mm

20-lead QFN (ML)
4 x 4 x 0.9 mm

20-lead QFN (MQ)
5 x 5x 0.9 mm

28-lead UQFN (MV)
4 x 4 x 0.5 mm

28-lead QFN (MQ)
5 x 5 x 0.9 mm

28-lead QFN (MM & ML)
6 x 6 x 0.9 mm

40-lead UQFN (MV)
5 x 5 x 0.5 mm

44-lead QFN (ML)
8 x 8 x 0.9 mm

64-lead QFN (MR)
9 x 9 x 0.9 mm

Plastic Shrink Small Outline
SSOP

8-lead MSOP (MS)

10-lead MSOP (UN)

16-lead QSOP (QR)

20-lead SSOP (SS)

28-lead SSOP (SS)

Plastic Thin Shrink Small Outline
TSSOP
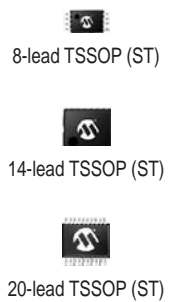
8-lead TSSOP (ST)

14-lead TSSOP (ST)

20-lead TSSOP (ST)

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 x 10 x 1 mm

80-lead TQFP (PF)
14 x 14 x 1 mm

64-lead TQFP (PT)
10 x 10 x 1 mm

100-lead TQFP (PT)
12 x 12 x 1 mm

64-lead TQFP (PF)
14 x 14 x 1 mm

100-lead TQFP (PF)
14 x 14 x 1 mm

80-lead TQFP (PT)
12 x 12 x 1 mm

144-lead TQFP (PH)
16 x 16 x 1 mm

Plastic Quad Flatpack
QFP

32-lead LQFP (LQ)
7 x 7 x 1.4 mm

44-lead MQFP (PQ)
10 x 10 x 2 mm

144-lead LQFP (PL)
20 x 20 x 1.4 mm

Ball Grid Array
BGA

100-ball BGA (BG)
10 x 10 x 1.1 mm
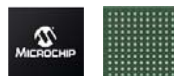
121-ball BGA (BG)
10 x 10 x 0.8 mm

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)

NOR Fla
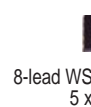
8-lead WS
5 x

32-lead Pl
60

32-lead PL
.452

40-lead TS
10 x

48-lead WFE
4 x 6

48-lead TFB
6 x 8

48-lead TS
12 x 20

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