

PIC Microcontrollers - continued

PIC®16F505 - FLASH Program Memory

The PIC16F505 devices from Microchip Technology are low-cost, high-performance, 8-bit, fullystatic, Flash-based CMOS microcontrollers. They employ a RISC architecture with only 33 single word/ single cycle instructions. All instructions are single cycle (200 μs) except for program branches, which take two cycles. The PIC16F505 products are equipped with special features that reduce system cost and power requirements. The Power-on Reset (POR) and Device Reset Timer (DRT) eliminate the need for external Reset circuitry. There are six oscillator configurations to choose from, including INTRC Internal Oscillator mode and the power-saving LP



(Low-power) Oscillator mode. Power-saving Sleep mode, Watchdog Timer and code protection features improve system cost, power and reliability.

Features:

- Precision 4 MHz internal oscillator
- Baseline Core with 33 Instructions, 2 Stack Levels
- All single-cycle Instructions except for program branches which are two cycles
- 12-bit wide instructions
- 8-bit wide data path
- 25 mA source/sink current I/O
- Low power (100nA) sleep current
- One 8-bit timer (TMRO)
- Watchdog timer (WDT)
- In Circuit Serial Programming™ (ICSP™) capability
- In-Circuit debugging support
- Programmable code protection

347109

Pins	Package	Description	Mftrs. List No.	Order Code	1+	25+	100+
16F505	14	DIL 8-bit CMOS MCU, 1536 bytes Flash, 72 bytes RAM, 12 I/O lines - 20MHZ (IND TEMP)	PIC16F505-I/P	405-7627	67.00	50.00	48.00
16F505	14	SOIC 8-bit CMOS MCU, 1536 bytes Flash, 72 bytes RAM, 12 I/O lines - 20MHZ (IND TEMP)	PIC16F505-I/SL	121-2690	60.00	39.00	36.00
506	14	DIL 8-Bit Flash CMOS MCU 67 bytes - 4/8 MHz (IND TEMP)	PIC16F506-I/PG	989-2532	94.00	58.00	54.00

PIC®14000

This 8-bit mixed signal 28-pin microcontroller features analogue peripherals including 8 channels of 8-bit A/D, 2 channels with selectable level shift inputs, 6 internal input channels and a 16-bit programmable timer with capture register. This device is compatible with the System Management Bus (SMB). Ideal for applications related to Telecom, PC, Industrial, Appliances and other Consumer applications

239090

Pins	Package	Description	Mftrs. List No.	Order Code	1+	25+	100+
14000	28	DIL 8-bit CMOS EPROM MCU, 4K EPROM, 192 bytes RAM, 20 I/O lines	PIC14000/JW	790-059	1,131.00	977.00	799.00
14000	28	SDIL 8-bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM, 20 I/O lines - 4MHz	PIC14000-04/SP	975-9069	494.00	455.00	384.00

PIC®16C7xx

The PIC16C7xx MCU family offers wide range of options from upward compatible devices in 18 to 44-pin packages to devices from low to high levels of digital peripheral integration. The family has a 14-bit instruction set, 4 to 8 channels of 8/10-bit ADCs, interrupt handling capability, various serial interface capabilities, Capture/Compare/PWM, brown-out detection and a deep 8-level stack.

239100

Pins	Package	Description	Mftrs. List No.	Order Code	1+	25+	100+
16C710	18	DIL 8-bit CMOS EPROM MCU with ADC, 512b OTP PROM, 36 bytes RAM - 4MHz	PIC16C710-04/P	108-4357	186.00	128.00	122.00
16C710	18	SOIC 8-bit CMOS EPROM MCU with ADC, 512b OTP PROM, 36 bytes RAM - 4MHz	PIC16C710-04/SO	119-6854	195.00	161.00	114.00
16C710	18	DIL 8-bit CMOS EPROM MCU with ADC, 512b OTP PROM, 36 bytes RAM - 20MHz (IND TEMP)	PIC16C710-20/P	119-6857	225.00	187.00	143.00
16C711	18	DIL 8-bit CMOS EPROM MCU with ADC, 1K EPROM, 68 bytes RAM	PIC16C711/JW	962-510	774.00	585.00	543.00
16C711	18	DIL 8-bit CMOS EPROM MCU with ADC, 1K OTP PROM, 68 bytes RAM - 4MHz	PIC16C711-04/P	975-9794	202.00	131.00	118.00
16C711	18	SOIC 8-bit CMOS EPROM MCU with ADC, 1K OTP PROM, 68 bytes RAM - 4MHz	PIC16C711-04/SO	975-9808	206.00	133.00	120.00
16C711	18	DIL 8-bit CMOS EPROM MCU with ADC, 1K OTP PROM, 68 bytes RAM - 4MHz (IND TEMP)	PIC16C711-04/P	975-9816	223.00	144.00	130.00
16C711	18	DIL 8-bit CMOS EPROM MCU with ADC, 1K OTP PROM, 68 bytes RAM - 20MHz	PIC16C711-20/P	975-9824	217.00	140.00	126.00
16C711	18	SOIC 8-bit CMOS EPROM MCU with ADC, 1K OTP PROM, 68 bytes RAM - 20MHz	PIC16C711-20/SO	962-570	266.00	152.00	136.00
20	18	SOIC 8-Bit CMOS Microcontroller	PIC16C711-20/SO	113-7351	221.00	143.00	128.00
16C711	18	DIL 8-bit CMOS EPROM MCU with ADC, 1K OTP PROM, 68 bytes RAM - 20MHz (IND TEMP)	PIC16C711-20/P	108-4359	240.00	164.00	156.00
16LC711	18	DIL 8-bit CMOS EPROM MCU with ADC, 1K OTP PROM, 68 bytes RAM - 4MHz (IND TEMP, Low Power)	PIC16C711-04/P	976-1578	234.00	152.00	136.00
16LC711	18	DIL 8-bit CMOS EPROM MCU with ADC, 1K OTP PROM, 68 bytes RAM - 4MHz (Low Power)	PIC16C711-04/P	976-1560	212.00	137.00	124.00
16LC711	18	SOIC 8-bit CMOS EPROM MCU with ADC, 1K OTP PROM, 68 bytes RAM - 4MHz (Low Power)	PIC16C711-04/SO	108-4358	217.00	140.00	126.00
04	18	SOIC Low Power 8-Bit CMOS Microcontroller	PIC16C711-04/SO	113-7352	240.00	154.00	139.00
16C712	18	DIL 8-bit CMOS EPROM MCU with ADC, 1K OTP PROM, 128 bytes RAM - 4MHz	PIC16C712-04/P	975-9859	165.00	113.00	101.00
16C712	20	SSOP 8-bit CMOS EPROM MCU with ADC, 1K OTP PROM, 128 bytes RAM - 20MHz (IND TEMP)	PIC16C712-20/SS	119-6799	222.00	184.00	129.00
16C715	18	DIL 8-bit CMOS EPROM MCU with ADC, 2K EPROM, 128 bytes RAM	PIC16C715/JW	962-661	916.00	695.00	623.00
16C715	18	DIL 8-bit CMOS EPROM MCU with ADC, 2K OTP PROM, 128 bytes RAM - 4MHz	PIC16C715-04/P	108-4360	229.00	147.00	133.00
16C715	18	DIL 8-bit CMOS EPROM MCU with ADC, 2K OTP PROM, 128 bytes RAM - 20MHz	PIC16C715-20/P	108-4361	243.00	158.00	142.00
16C715	18	DIL 8-bit CMOS EPROM MCU with ADC, 2K OTP PROM, 128 bytes RAM - 20MHz (IND TEMP)	PIC16C715-20/P	975-9867	275.00	177.00	159.00
16C715	18	SOIC 8-bit CMOS EPROM MCU with ADC, 2K OTP PROM, 128 bytes RAM - 20MHz (IND TEMP)	PIC16C715-20/SO	108-4362	278.00	180.00	162.00
16C716	18	DIL 8-bit CMOS EPROM MCU with ADC, 2K EPROM, 128 bytes RAM	PIC16C716/JW	332-0844	708.00	536.00	481.00
16C716	18	DIL 8-bit CMOS EPROM MCU with ADC, 2K OTP PROM, 128 bytes RAM - 4MHz	PIC16C716-04/P	332-0856	221.00	126.00	113.00
04	18	DIL 8-Bit CMOS Microcontroller	PIC16C716-04/P	113-7319	184.00	119.00	107.00
16C716	18	SOIC 8-bit CMOS EPROM MCU with ADC, 2K OTP PROM, 128 bytes RAM - 4MHz	PIC16C716-04/SO	975-9875	187.00	121.00	109.00
16LC716	18	DIL 8-bit CMOS EPROM MCU with ADC, 2K OTP PROM, 128 bytes RAM - 4MHz (IND TEMP, Low Power)	PIC16C716-04/P	976-1586	212.00	136.00	123.00
16C717	18	DIL 8-bit CMOS EPROM MCU with ADC, 2K OTP PROM, 256 bytes RAM - 20MHz	PIC16C717/P	108-4291	188.00	122.00	110.00
717	18	SOIC 8-Bit CMOS Microcontroller	PIC16C717/SO	113-7320	192.00	124.00	112.00
16C717	18	DIL 8-bit CMOS EPROM MCU with ADC, 2K OTP PROM, 256 bytes RAM - 20MHz (IND TEMP)	PIC16C717-I/P	332-0960	256.00	145.00	131.00
717	18	DIL 8-Bit CMOS Microcontroller	PIC16C717-I/P	113-7321	212.00	136.00	123.00
16C717	18	SOIC 8-bit CMOS EPROM MCU with ADC, 2K OTP PROM, 256 bytes RAM - 20MHz (IND TEMP)	PIC16C717-I/SO	975-9883	215.00	139.00	125.00
770	20	DIL 8-Bit CMOS Microcontroller	PIC16C770-I/P	113-7322	208.00	135.00	122.00
04	28	SDIL 8-Bit CMOS Microcontroller	PIC16C72A-04/SP	113-7317	252.00	184.00	169.00
16C72A	28	SDIL 8-bit CMOS EPROM MCU, 2K OTP PROM, 128 bytes RAM - 20MHz (IND TEMP)	PIC16C72A-20/SP	975-9921	298.00	217.00	199.00
16C73B	28	DIL 8-bit CMOS EPROM MCU with ADC, 4K EPROM, 192 bytes RAM	PIC16C73B/JW	315-4609	871.00	576.00	559.00
16C73B	28	SDIL 8-bit CMOS MCU, 4K OTP PROM, 192 bytes RAM, 22 I/O lines - 4MHz	PIC16C73B-04/SP	108-4277	326.00	238.00	219.00
16C73B	28	SOIC 8-bit CMOS MCU, 4K OTP PROM, 192 bytes RAM, 22 I/O lines - 4MHz	PIC16C73B-04/SO	324-4350	393.00	252.00	246.00
04	28	SOIC 8-Bit CMOS Microcontroller with A/D Converter	PIC16C73B-04/SO	113-7318	326.00	238.00	219.00
16C73B	28	SDIL 8-bit CMOS EPROM MCU with ADC, 4K OTP PROM, 192 bytes RAM - 20MHz (IND TEMP)	PIC16C73B-20/SP	976-0008	384.00	280.00	258.00
16C73B	28	SOIC 8-bit CMOS EPROM MCU with ADC, 4K OTP PROM, 192 bytes RAM - 20MHz (IND TEMP)	PIC16C73B-20/SO	108-4262	384.00	280.00	258.00
16C73B	28	SSOP 8-bit CMOS EPROM MCU with ADC, 4K OTP PROM, 192 bytes RAM - 20MHz (IND TEMP)	PIC16C73B-20/SS	315-4634	478.00	307.00	282.00
16C74B	40	DIL 8-bit CMOS EPROM MCU, 4K EPROM, 192 bytes RAM	PIC16C74B/JW	315-4646	988.00	691.00	671.00
16C74B	40	DIL 8-bit CMOS MCU, 4K OTP PROM, 192 bytes RAM, 33 I/O lines - 4MHz	PIC16C74B-04/P	976-0091	397.00	289.00	266.00
73	28	SSOP 8-Bit CMOS Microcontrollers with A/D Converter	PIC16C73B-20/SS	113-7313	397.00	289.00	266.00
16C74B	44	PLCC 8-bit CMOS MCU, 4K OTP PROM, 192 bytes RAM, 33 I/O lines - 4MHz (PLCC)	PIC16C74B-04/L	976-0083	443.00	407.00	344.00
16C74B	40	DIL 8-bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 20MHz (IND TEMP)	PIC16C74B-20/P	108-4263	464.00	339.00	331.00
16C74B	44	PLCC 8-bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 20MHz (IND TEMP, PLCC)	PIC16C74B-20/L	976-0130	512.00	470.00	397.00
16C76	28	DIL 8-bit CMOS EPROM MCU, 8K EPROM, 368 bytes RAM	PIC16C76/JW	687-297	1,132.00	787.00	744.00
16C76	28	SOIC 8-bit CMOS EPROM MCU, 8K OTP PROM, 368 bytes RAM - 4MHz	PIC16C76-04/SO	119-6835	437.00	369.00	260.00
16C76	28	SDIL 8-bit CMOS EPROM MCU, 8K OTP PROM, 368 bytes RAM - 4MHz	PIC16C76-04/SP	976-0148	412.00	301.00	277.00
16C77	40	DIL 8-bit CMOS EPROM MCU, 8K EPROM, 368 bytes RAM	PIC16C77/JW	687-212	1,123.00	781.00	784.00
16C77	40	DIL 8-bit CMOS EPROM MCU, 8K OTP PROM, 368 bytes RAM - 4MHz	PIC16C77-04/P	976-0172	443.00	323.00	297.00
16C77	44	PLCC 8-bit CMOS EPROM MCU, 8K OTP PROM, 368 bytes RAM - 4MHz	PIC16C77-04/L	976-0164	465.00	385.00	345.00

Prices are in Thai Baht and exclude 7% VAT. Due to the volatile nature of certain products, prices are subject to change without notice.