

PIC Microcontrollers – continued

SEM537 SEM537A

Product	Program Memory		EEPROM	Data RAM Bytes	Max. Speed MHz	I/O Ports	ADC 8-Bits	Serial I/O	PWM	Brown-Out Detection	Comparators	Timers	In-System Programming	Other Features
	Bytes	Words												
PIC16CXXX – 4-12 Interrupts, 200ns Instruction Execution, 35 Instructions, Upwardly Compatible with PIC16C5X														
PIC16CE624	1792	1024 14	128	96	20	13				Yes	2	1+WDT	Yes	PVref
PIC16CE625	3584	2048 14	128	128	20	13				Yes	2	1+WDT	Yes	PVref
PIC16F627	1792 (Flash)	024 14 (Flash)	128	224	20	16		USART/SCI	1	Yes	2	1+WDT	Yes	CCP
PIC16F628	3584 (Flash)	048 14 (Flash)	128	224	20	16		USART/SCI	1	Yes	2	1+WDT	Yes	CCP
PIC16F83	896 (Flash)	512 14 (Flash)		36 (64 E ²)	10	13						1+WDT	Yes	
PIC16C84	1792 (E ² PROM)	1024 14 (E ² PROM)		36 (64 E ²)	10	13						1+WDT	Yes	
PIC16F84	1792 (Flash)	1024 14 (Flash)		36 (64 E ²)	10	13						1+WDT	Yes	
PIC16F84A	1792 (Flash)	1024 14 (Flash)	64	68	20	13						1+WDT	Yes	
PIC16C745	3584(Flash)	8192 14	64	128	20	22	5 (10bits)	USART	1	Yes				
PIC16F870	3584(Flash)	2048 14 (Flash)	64	128	20	22	5 (10bits)	USART	1	Yes	—	3+WDT	Yes	CCP
PIC16F871	3584(Flash)	2048 14 (Flash)	64	128	20	33	8 (10bits)	USART	1	Yes	—	3+WDT	Yes	CCP, PSP
PIC16C642	7168	4096 14		176	20	22			1	Yes	2	1+WDT	Yes	PVref
PIC16C662	7168	4096 14		176	20	33				Yes	2	1+WDT	Yes	PSP, PVref
PIC16C770	3584	2048 14		256	20	16	6 (12bits)	I ² C/SPI	1	Yes	3	3+WDT	Yes	4MHz INT OSC ECCP
PIC16C771	7168	4096 14		256	20	16	6 (12bits)	I ² C/SPI	1	Yes	3	3+WDT	Yes	4MHz INT OSC ECCP
PIC16C773	7168	4096 14		256	20	22	6 (12bits)	USART/I ² C/SPI	2	Yes		1+WDT	Yes	CCP
PIC16C774	7168	4096 14		256	20	33	10 (12bits)	USART/I ² C/SPI	2	Yes		1+WDT	Yes	CCP, P, PSP
PIC16C745	14336	8192 14	-	256	24	22	5	USART	2	Yes	-	3+WDT	Yes	2CCP, USB, 1.1, 64b Dual Port RAM
PIC16C765	14336	8192 14	-	256	24	22	8	USART	2	Yes	-	3+WDT	Yes	2CCP, USB, 1.1, 64b Dual Port RAM, PSP
PIC16F872	3584 (Flash)	2048 14 (Flash)	64	128	20	22	5 (10bits)	I ² C/SPI	1	Yes		3+WDT	Yes	CCP, ICD
PIC16F873	7168	4096 14	128	192	20	22	5	USART/I ² C/SPI	2	Yes		1+WDT	Yes	CCP
PIC16F874	7168	4096 14	128	192	20	33	8	USART/I ² C/SPI	2	Yes		1+WDT	Yes	CCP, PSP
PIC16F876	14336	8192 14	256	368	20	22	5	USART/I ² C/SPI	2	Yes		1+WDT	Yes	CCP
PIC16F877	14336	8192 14	256	368	20	33	8	USART/I ² C/SPI	2	Yes		1+WDT	Yes	CCP, PSP
PIC16C923	7168	4096 14		176	8	52		I ² C/SPI	1			3+WDT	Yes	CCP, LCD Module
PIC16C924	7168	4096 14		176	8	52		I ² C/SPI	1			3+WDT	Yes	CCP
PIC17CXXX – 120ns Instruction Execution Including Multiply, 58 Instructions, Upwardly Compatible with PIC16CXX/PIC16C5X														
PIC17C42A	4096	2048 16		232	33	33		USART	2			4+WDT		2 CAP
PIC17C43	8192	4096 16		454	33	33		USART	2			4+WDT		2 CAP
PIC17C44	16384	8192 16		454	33	33		USART	2			4+WDT		2 CAP
PIC17C752	16384	8192 16		678	33	50	12	USART/I ² C/SPI	3	Yes		4+WDT		CAP
PIC17C762	16384	8192 16		678	33	66	12	USART/I ² C/SPI	3	Yes		4+WDT	Yes	CAP
PIC17C756	32768	16384 16		902	33	50	12	USART/I ² C/SPI	3	Yes		4+WDT		CAP
PIC17C766	32768	16384 16		902	33	66	16	USART/I ² C/SPI	3	Yes		4+WDT	Yes	CAP
PIC18CXXX – 77 Instructions, C Compiler efficient instruction set, Upwardly Compatible with PIC17CXX/PIC16CXX/PIC16C5X/PIC12CXXX														
PIC18C242	16384	8192 16		512	40	23	5 (10bits)	USART/I ² C/SPI	2	Yes		4+WDT	Yes	2 CCP, 8 8 Multiply
PIC18C252	32768	16384 16		1536	40	23	5 (10bits)	USART/I ² C/SPI	2	Yes		4+WDT	Yes	2 CCP, 8 8 Multiply
PIC18C442	16384	8192 16		512	40	34	8 (10bits)	USART/I ² C/SPI	2	Yes		4+WDT	Yes	PSP, 2 CCP, 8 8 Multiply
PIC18C452	32768	16384 16		1536	40	34	8 (10bits)	USART/I ² C/SPI	2	Yes		4+WDT	Yes	PSP, 2 CCP, 8 8 Multiply
PIC18C658	32768	16384 16	-	1536	40	52	12 (10bits)	USART/M ² C/SPI CAN 2.0B	2	Yes	2	4+WDT	Yes	2CCP, PLVD, PrVref, 3 TxBuff, 2 RxBuff
PIC18C858	32768	16384 16	-	1536	40	68	16 (10bits)	USART/M ² C/SPI CAN 2.0B	2	Yes	2	4+WDT	Yes	2CCP, PLVD, PrVref, 3 TxBuff, 2 RxBuff PSP

Abbreviations:

ADC = Analog-to-Digital- Converter
 BVref = Bandgap Vref
 CAP = Capture
 CCP = Capture/Compare/PWM
 DAC = Digital-to-Analog Converter
 E² = EEPROM (Reprogrammable)
 HVIO = High Voltage I/Os
 I²C = Inter-integrated Circuit Bus
 InOs = Internal Oscillator
 M²C/SPI = Master I²C/SPI
 PLVD = Programmable Low-Voltage Detection
 PSP = Parallel Slave Port

PrVref = Precision Vref
 PVref = Programmable Vref
 PWM = Pulse Width Modulator
 SLAC = Slope A/D Converter, up to 16 bits
 SMB = System Management Bus
 SPI = Serial Peripheral Interface
 TS = Temperature Sensor
 TxBuff = Transmit Buffer
 RxBuff = Receive Buffer
 WDT = Serial Peripheral Interface
 USART = Universal Synchronous/Asynchronous/Receiver/Transmitter
 WDT = Watchdog Timer

Packages:

CL = Windowed CERQUAD
 JW = Windowed CERPDP
 L = Plastic Leaded Chip Carrier (PLCC)
 P = Plastic DIP
 PQ = Plastic Quad Flatpack (PQFP)
 PT = Plastic Thin Quad Flatpack (TQFP)
 SO = Plastic Small Outline (SOIC)
 SP = Plastic Skinny DIP
 SS = Plastic Shrink Small Outline (SSOP)

EPROM fuse selectable oscillator options:

HS = High Speed Crystal/Resonator
 LP = Power saving, Low frequency crystal
 RC = Low Cost RC Oscillator
 XT = Standard Crystal/Resonator

PIC12C50X

PIC12C508/9 'A' Recommended for new designs.

Mfr.	Pins	Description
12C508 MCHIP 8	8	8-bit CMOS EPROM MCU, 512b EPROM, 25 bytes RAM, 6 I/O lines
12C508 MCHIP 8	8	8-bit CMOS EPROM MCU, 512b OTP PROM, 25 bytes RAM, 6 I/O lines – 4MHz (IND TEMP)..
12C508 MCHIP 8	8	8-bit CMOS EPROM MCU, 512b OTP PROM, 25 bytes RAM, 6 I/O lines - 4MHz (IND TEMP)..
12C508 MCHIP 8	8	8-bit CMOS EPROM MCU, 512b OTP PROM, 25 bytes RAM, 6 I/O lines – 4MHz.....
12C508 MCHIP 8	8	8-bit CMOS EPROM MCU, 512b OTP PROM, 25 bytes RAM, 6 I/O lines – 4MHz.....
12C508A MCHIP 8	8	8-bit CMOS EPROM MCU, 512b EPROM, 25 bytes RAM, 6 I/O lines – 4MHz
12C508A MCHIP 8	8	8-bit CMOS EPROM MCU, 512b OTP PROM, 25 bytes RAM, 6 I/O lines – 4MHz (IND TEMP)..
12C508A MCHIP 8	8	8-bit CMOS EPROM MCU, 512b OTP PROM, 25 bytes RAM, 6 I/O lines – 4MHz (IND TEMP)..
12C508A MCHIP 8	8	8-bit CMOS EPROM MCU, 512b OTP PROM, 25 bytes RAM, 6 I/O lines – 4MHz (IND TEMP)..
12C508A MCHIP 8	8	8-bit CMOS EPROM MCU, 512b OTP PROM, 25 bytes RAM, 6 I/O lines – 4MHz.....
12C508A MCHIP 8	8	8-bit CMOS EPROM MCU, 512b OTP PROM, 25 bytes RAM, 6 I/O lines – 4MHz.....
12C508A MCHIP 8	8	8-bit CMOS EPROM MCU, 512b OTP PROM, 25 bytes RAM, 6 I/O lines – 4MHz.....
12C508A MCHIP 8	8	8-bit CMOS EPROM MCU, 512b OTP PROM, 25 bytes RAM, 6 I/O lines – 4MHz.....
12C508A MCHIP 8	8	8-bit CMOS EPROM MCU, 512b OTP PROM, 25 bytes RAM, 6 I/O lines – 4MHz.....
12C509 MCHIP 8	8	8-bit CMOS EPROM MCU, 1Kb EPROM, 41 bytes RAM, 6 I/O lines
12C509 MCHIP 8	8	8-bit CMOS EPROM MCU, 1Kb OTP PROM, 41 bytes RAM, 6 I/O lines – 4MHz (IND TEMP)..
12C509 MCHIP 8	8	8-bit CMOS EPROM MCU, 1Kb OTP PROM, 41 bytes RAM, 6 I/O lines – 4MHz (IND TEMP)..
12C509 MCHIP 8	8	8-bit CMOS EPROM MCU, 1Kb OTP PROM, 41 bytes RAM, 6 I/O lines – 4MHz
12C509 MCHIP 8	8	8-bit CMOS EPROM MCU, 1Kb OTP PROM, 41 bytes RAM, 6 I/O lines – 4MHz
12C509A MCHIP 8	8	8-bit CMOS EPROM MCU, 1Kb EPROM, 41 bytes RAM, 6 I/O lines
12C509A MCHIP 8	8	8-bit CMOS EPROM MCU, 1Kb OTP PROM, 41 bytes RAM, 6 I/O lines – 4MHz (IND TEMP)..
12C509A MCHIP 8	8	8-bit CMOS EPROM MCU, 1Kb OTP PROM, 41 bytes RAM, 6 I/O lines – 4MHz (IND TEMP)..
12C509A MCHIP 8	8	8-bit CMOS EPROM MCU, 1Kb OTP PROM, 41 bytes RAM, 6 I/O lines – 4MHz.....
12C509A MCHIP 8	8	8-bit CMOS EPROM MCU, 1Kb OTP PROM, 41 bytes RAM, 6 I/O lines – 4MHz.....

Mfrs. List No	Order Code	Price Each		
		1+	10+	100+
PIC12C508JW	791-994			
PIC12C508-041P	789-409			
PIC12C508-04ISM	SMD 791-544			
PIC12C508-04P	789-380			
PIC12C508-04SM	SMD 789-392			
PIC12C508AJW	140-211			
PIC12C508A04P	140-193			
PIC12C508A04ISM	SMD 140-200			
PIC12C508A-04ISN	SMD 314-3880			
PIC12C508A04P	140-168			
PIC12C508A04SM	SMD 140-170			
PIC12C508A-04SN	SMD 314-3892			
PIC12C509JW	792-007			
PIC12C509-041P	789-434			
PIC12C509-04ISM	SMD 962-557			
PIC12C509-04P	789-410			
PIC12C509-04SM	SMD 789-422			
PIC12C509A-04SN	SMD 314-3909			
PIC12C509AJW	140-284			
PIC12C509A041P	140-247			
PIC12C509A04ISM	SMD 140-260			
PIC12C509A-04ISN	SMD 314-3910			
PIC12C509A04P	140-223			
PIC12C509A04SM	SMD 140-235			

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