

FUTURE MICROCHIP PRODUCTS

PICmicro® MICROCONTROLLER (MCU) PRODUCTS																		
Product	Program Memory			EEPROM Data Memory Bytes	RAM Bytes	I/O Pins	Packages	Analog		Digital			Max Speed MHz	ICSP™	BOR/PBOR	PLVD	CCP/ECCP	Other Features
	FLASH Bytes	FLASH Words	ROM Words					ADC Channels	Comparators	PWM 10-Bit	Timers/WDT	Serial I/O						
PIC12FXXX Flash MCUs: Upwardly compatible with PIC12CXXX, 200 ns Instruction Execution, 35 Instructions, 5 Oscillator Selections																		
PIC12F508	768	512x12	—	—	25	6	8P, 8SM, 8JW, 8SN, 8MF	—	—	—	1-8 bit, 1-WDT	—	4	✓	—	—	—	4 MHz Internal Oscillator
PIC12F509	1536	1024x12	—	—	41	6	8P, 8SM, 8JW, 8SN, 8MF	—	—	—	1-8 bit, 1-WDT	—	4	✓	—	—	—	4 MHz Internal Oscillator
PIC12F635	1792	1024x14	—	128	64	6	8P, 8SN, 8MF	—	1	—	1-16 bit, 1-8 bit, 1-WDT	—	20	✓	✓	✓	—	8 MHz Internal Oscillator, Power Managed Features, KEELoQ, ICD
PIC12F683	3584	2048x14	—	256	128	6	8P, 8SN, 8MF	4 x 10-bit	1	1	1-16 bit, 2-8 bit, 1-WDT	—	20	✓	✓	—	1/0	8 MHz Internal Oscillator, Power Managed Features, ICD
PIC16FXXX Flash MCUs: Upwardly Compatible with PIC16C5X/PIC12CXXX, 4-12 Interrupts, 200 ns Instruction Execution, 35 Instructions, 25 mA source/sink per I/O																		
PIC16F505	1536	1024x12	—	—	72	12	14P, 14JW, 14SL	—	—	—	1-8 bit, 1-WDT	—	20	✓	—	—	—	25 mA source/sink per I/O, 4 MHz Internal Oscillator
PIC16F636	3584	2048x14	—	256	128	12	14P, 14SL, 14ST	—	2	—	1-16 bit, 1-8 bit, 1-WDT	—	20	✓	✓	✓	—	8 MHz Internal Oscillator, KEELoQ, Power Managed Features, ICD
PIC16F639	3584	2048x14	—	256	128	12	20P, 20SO, 20SS	—	2	—	1-16 bit, 1-8 bit, 1-WDT	—	20	✓	✓	✓	—	8 MHz Internal Oscillator, Power Managed Features, Transponder Analog Front End, KEELoQ, ICD
PIC16F684	3584	2048x14	—	256	128	12	14P, 14SL, 14ST	8 x 10-bit	2	1	1-16 bit, 2-8 bit, 1-WDT	—	20	✓	✓	—	0/1	8 MHz Internal Oscillator, 4-ch PWM, Power Managed Features, ICD
PIC16F688	7168	4096x14	—	256	256	12	14P, 14SL, 14ST	8 x 10-bit	2	—	1-16 bit, 1-8 bit, 1-WDT	EUSART	20	✓	✓	—	—	8 MHz Internal Oscillator, Power Managed Features, ICD
PIC18FXXX Flash MCUs: Upwardly Compatible with PIC17C7XX/PIC16CXX/PIC16C5X/PIC12CXXX, 77 Instructions, C Compiler Efficient Instruction Set, Software Stack Capability, Table Read/Write, Switchable Oscillator Sources, 4x PLL, 25 mA Source/Sink per I/O, 10-12 MIPS																		
PIC18F2455	24576	12288x16	—	256	2048	25	28SP, 28SO	11 x 10-bit	2	2	3-16 bit, 1-8 bit, 1-WDT	USB 2.0, Mi ² C/I ² C, EUSART	48	✓	✓	✓P	2/0	Full Speed USB 2.0 Compliant, Streaming Port, Power Managed Modes, ICD
PIC18F2515	49152	24576x16	—	—	3968	25	28SP, 28SO	10 x 10-bit	2	2	3-16 bit, 1-8 bit, 1-WDT	Mi ² C/SPI, EUSART	40	✓	✓P	✓	2	Internal Oscillator, Power Managed Modes, ICD
PIC18F2525	49152	24576x16	—	1024	3968	25	28SP, 28SO	10 x 10-bit	2	2	3-16 bit, 1-8 bit, 1-WDT	Mi ² C/SPI, EUSART	40	✓	✓P	✓	2	Internal Oscillator, Self-Programming, Power Managed Modes, ICD
PIC18F2550	32768	16384x16	—	256	2048	25	28SP, 28SO	11 x 10-bit	2	2	3-16 bit, 1-8 bit, 1-WDT	USB 2.0, Mi ² C/I ² C, EUSART	48	✓	✓	✓P	2/0	Full Speed USB 2.0 Compliant, Streaming Port, Power Managed Modes, ICD
PIC18F2585	49152	24576x16	—	1024	3328	25	28SP, 28SO	8 x 10-bit	—	2	3-16 bit, 1-8 bit, 1-WDT	CAN 2.0B, Mi ² C/SPI, EUSART	40	✓	✓P	✓	1	Internal Oscillator, Self-Programming, Power Managed Modes, ICD, Full CAN 2.0B, 3 transmit buffers, 8 receive buffers, 16 acceptance filters, 2 filter masks
PIC18F2610	65536	32768x16	—	—	3968	25	28SP, 28SO	10 x 10-bit	2	2	3-16 bit, 1-8 bit, 1-WDT	Mi ² C/SPI, EUSART	40	✓	✓P	✓	2	Internal Oscillator, Power Managed Modes, ICD
PIC18F2620	65536	32768x16	—	1024	3968	25	28SP, 28SO	10 x 10-bit	2	2	3-16 bit, 1-8 bit, 1-WDT	Mi ² C/SPI, EUSART	40	✓	✓P	✓	2	Internal Oscillator, Self-Programming, Power Managed Modes, ICD
PIC18F2680	65536	32768x16	—	1024	3328	25	28SP, 28SO	8 x 10-bit	—	2	3-16 bit, 1-8 bit, 1-WDT	CAN 2.0B, Mi ² C/SPI, EUSART	40	✓	✓P	✓	1	Internal Oscillator, Self-Programming, Power Managed Modes, ICD, Full CAN 2.0B, 3 transmit buffers, 8 receive buffers, 16 acceptance filters, 2 filter masks



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Product	Program Memory			EEPROM Data Memory Bytes	RAM Bytes	I/O Pins	Packages	Analog		Digital			Max Speed MHz	ICSP™	BOR/PBOR	PLVD	CCP/ECCP	Other Features
	FLASH Bytes	FLASH Words	ROM Words					ADC Channels	Comparators	PWM 10-Bit	Timers/WDT	Serial I/O						
PIC18FXXX Flash MCUs: Upwardly Compatible with PIC17C7XX/PIC16CXX/PIC16C5X/PIC12CXXX, 77 Instructions, C Compiler Efficient Instruction Set, Software Stack Capability, Table Read/Write, Switchable Oscillator Sources, 4x PLL, 25 mA Source/Sink per I/O, 10-12 MIPS (continued)																		
PIC18F4455	24576	12288x16	—	256	2048	34	40P, 44PT	13 x 10-bit	2	2	3-16 bit, 1-8 bit, 1-WDT	USB 2.0, Mi ² C/I ² C, EUSART	48	✓	✓	✓P	1/1	Full Speed USB 2.0 Compliant, Streaming Port, Power Managed Modes, ICD
PIC18F4515	49152	24576x16	—	1024	3968	36	40P, 44ML, 44PT	13 x 10-bit	2	2	3-16 bit, 1-8 bit, 1-WDT	Mi ² C/SPI, EUSART	40	✓	✓P	✓	1/1	Internal Oscillator, PSP, Power Managed Modes, ICD
PIC18F4525	49152	24576x16	—	1024	3968	36	40P, 44ML, 44PT	13 x 10-bit	2	2	3-16 bit, 1-8 bit, 1-WDT	Mi ² C/SPI, EUSART	40	✓	✓P	✓	1/1	Internal Oscillator, Self-Programming, PSP, Power Managed Modes, ICD
PIC18F4550	32768	16384x16	—	256	2048	34	40P, 44PT	13 x 10-bit	2	2	3-16 bit, 1-8 bit, 1-WDT	USB 2.0, Mi ² C/I ² C, EUSART	48	✓	✓	✓P	1/1	Full Speed USB 2.0 Compliant, Streaming Port, Power Managed Modes, ICD
PIC18F4585	49152	24576x16	—	1024	3368	36	40P, 44ML, 44PT	11 x 10-bit	2	2	3-16 bit, 1-8 bit, 1-WDT	CAN 2.0B, Mi ² C/SPI, EUSART	40	✓	✓P	✓	1/1	Internal Oscillator, Self-Programming, PSP, Power Managed Modes, ICD, Full CAN 2.0B, 3 transmit buffers, 8 receive buffers, 16 acceptance filters, 2 filter masks
PIC18F4610	65536	32768x16	—	—	3968	36	40P, 44ML, 44PT	13 x 10-bit	2	2	3-16 bit, 1-8 bit, 1-WDT	Mi ² C/SPI, EUSART	40	✓	✓P	✓	1/1	Internal Oscillator, PSP, Power Managed Modes, ICD
PIC18F4620	65536	32768x16	—	1024	3968	36	40P, 44ML, 44PT	13 x 10-bit	2	2	3-16 bit, 1-8 bit, 1-WDT	Mi ² C/SPI, EUSART	40	✓	✓P	✓	1/1	Internal Oscillator, Self-Programming, PSP, Power Managed Modes, ICD
PIC18F4680	65536	32768x16	—	1024	3328	36	40P, 44ML, 44PT	11 x 10-bit	2	2	3-16 bit, 1-8 bit, 1-WDT	CAN 2.0B, Mi ² C/SPI, EUSART	40	✓	✓P	✓	1/1	Internal Oscillator, Self-Programming, PSP, Power Managed Modes, ICD, Full CAN 2.0B, 3 transmit buffers, 8 receive buffers, 16 acceptance filters, 2 filter masks
PIC18F6410	16384	8192x16	—	—	768	54	64 PT	12 x 10-bit	2	3	3-16 bit, 1-8 bit, 1-WDT	Mi ² C/SPI, EUSART	40	✓	✓P	✓	2/1	Power Managed Modes, ICD
PIC18F6490	16384	8192x16	—	—	768	50	64 PT	12 x 10-bit	2	2	3-16 bit, 1-8 bit, 1-WDT	Mi ² C/SPI, EUSART	40	✓	✓P	✓	2	LCD: up to 128 Segments, Power Managed Modes, ICD
PIC18F8410	16384	8192x16	—	—	768	70	80 PT	12 x 10-bit	2	3	3-16 bit, 1-8 bit, 1-WDT	Mi ² C/SPI, EUSART	40	✓	✓P	✓	2/1	Power Managed Modes, ICD
PIC18F8490	16384	8192x16	—	—	768	66	80 PT	12 x 10-bit	2	2	3-16 bit, 1-8 bit, 1-WDT	Mi ² C/SPI, EUSART	40	✓	✓P	✓	2	LCD: up to 192 Segments, Power Managed Modes, ICD

Abbreviations:

ADC = Analog-to-Digital Converter
 AUSART = Addressable USART
 BOR = Brown-out Detection/Reset
 CAP = Capture
 CCP = Capture/Compare/PWM
 DAC = Digital-to-Analog Converter

E2 = EEPROM
 ECCP = Enhanced Capture/Compare/PWM
 EMA = External Memory Addressing
 I²C = Inter-Integrated Circuit Bus
 ICSP = In-Circuit Serial Programming
 ICD = In-Circuit Debug
 LVD = Low Voltage Detection
 LIN XCVR = Local Interconnection Network Transceiver

Mi²C/SPI = Master I²C/SPI
 PBOR = Programmable Brown-Out Detection/Reset
 PLVD = Programmable Low-Voltage Detection
 PSP = Parallel Slave Port
 PWM = Pulse Width Modulator
 PSMC = Programmable Switch Mode Controller
 SLAC = Slope A/D Converter, up to 16 bits

SMB = System Management Bus
 SPI = Serial Peripheral Interface
 USART = Universal Synchronous/Asynchronous Receiver/Transmitter
 USB = Universal Serial Bus
 VREF = Voltage Reference
 WDT = Watchdog Timer
 ✓P = Programmable

*Contact Microchip Technology for availability date.

dsPIC® MICROCONTROLLER (MCU) PRODUCTS

Product	Program (FLASH) KBytes	Memory (FLASH) KWords	EE Bytes	SRAM Bytes	Packages	A/D 12-bit 100 KSPS	A/D 10-bit 500 KSPS	Timer 16-bit	Input Cap	Output Comp/Std PWM	Motor Control PWM	Quad Enc.	UART	SPI	I ² C	CAN	Codec Interface
dsPIC30F Motor Control and Power Conversion Controller Family																	
dsPIC30F2010	12	4	1024	512	28SO, 28SP		6 ch	3	4	2	6	Yes	1	1	1		
dsPIC30F3010	24	8	1024	1024	28SO, 28SP		6 ch	5	4	2	6	Yes	1	1	1		
dsPIC30F3011	24	8	1024	1024	40P, 44PT		9 ch	5	4	4	6	Yes	2	1	1		
dsPIC30F4011	48	16	1024	2048	40P, 44PT		9 ch	5	4	4	6	Yes	2	1	1	1	
dsPIC30F4012	48	16	1024	2048	28SO, 28SP		6 ch	5	4	2	6	Yes	1	1	1	1	
dsPIC30F5015	66	22	1024	2048	64PT		16 ch	5	4	4	8	Yes	1	2	1	1	
dsPIC30F6010	144	48	4096	8192	80PT		16 ch	5	8	8	8	Yes	2	2	1	2	
dsPIC30F Sensor Controller Family																	
dsPIC30F2011	12	4	0	1024	18SO, 18P	8 ch		3	2	2	No	No	1	1	1		
dsPIC30F2012	12	4	0	1024	28SO, 28SP	10 ch		3	2	2	No	No	1	1	1		
dsPIC30F3012	24	8	1024	2048	18SO, 18P	8 ch		3	2	2	No	No	1	1	1		
dsPIC30F3013	24	8	1024	2048	28SO, 28SP	10 ch		3	2	2	No	No	2	1	1		
dsPIC30F General Purpose Controller Family																	
dsPIC30F3014	24	8	1024	2048	40P, 44PT	13 ch		3	2	2	No	No	2	1	1		
dsPIC30F4013	48	16	1024	2048	40P, 44PT	13 ch		5	4	4	No	No	2	1	1	1	AC97, I ² S
dsPIC30F5011	66	22	1024	4096	64PT	16 ch		5	8	8	No	No	2	2	1	2	AC97, I ² S
dsPIC30F5013	66	22	1024	4096	80PT	16 ch		5	8	8	No	No	2	2	1	2	AC97, I ² S
dsPIC30F6011	132	44	2048	6144	64PT	16 ch		5	8	8	No	No	2	2	1	2	
dsPIC30F6012	144	48	4096	8192	64PT	16 ch		5	8	8	No	No	2	2	1	2	AC97, I ² S
dsPIC30F6013	132	44	2048	6144	80PT	16 ch		5	8	8	No	No	2	2	1	2	
dsPIC30F6014	144	48	4096	8192	80PT	16 ch		5	8	8	No	No	2	2	1	2	AC97, I ² S

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SERIAL ELECTRICALLY ERASABLE PROMS (EEPROM)

Part #	E/W Cycles	Density (Organization)	Page Size	Write Speed	Max. Clock Freq. - 77k	Operating Voltage (V)	Temps	Unique Features	Packages
SPI™ Compatible Serial EEPROM Family – Page Write mode, HOLD pin, software enabled block write protection and hardware write-protect pin									
25LC128	1M	128 Kbits (x8)	32B	5 ms	10 MHz	2.5 to 5.5	I, E		P, SN, ST, MF
25AA128	1M	128 Kbits (x8)	32B	5 ms	10 MHz	1.8 to 5.5	I		P, SN, ST, MF
25LC256	1M	256 Kbits (x8)	32B	5 ms	10 MHz	2.5 to 5.5	I, E		P, SN, ST, MF
25AA256	1M	256 Kbits (x8)	32B	5 ms	10 MHz	1.8 to 5.5	I		P, SN, ST, MF
25LC512	1M	512 Kbits (x8)	32B	5 ms	20 MHz	2.5 to 5.5	I, E		P, SM, MF
25AA512	1M	512 Kbits (x8)	32B	5 ms	20 MHz	1.8 to 5.5	I		P, SM, MF
25LC1024	1M	1 Mbit (x8)	32B	5 ms	20 MHz	2.5 to 5.5	I, E		P, SM, MF
25AA1024	1M	1 Mbit (x8)	32B	5 ms	20 MHz	1.8 to 5.5	I		P, SM, MF

ANALOG/INTERFACE PRODUCTS

Part #	Vcc Range (V)	Reset Voltages (V)	Reset Type	Output Type	Typical Reset Pulse Width (ms)	Typical Supply Current (μA)	Features	Packages
Power Management – CPU/System Supervisors								
MCP102	1.0 to 5.5	4.62, 4.38, 3.07, 2.92, 2.63, 2.3, 1.9	Active Low	CMOS Push-Pull	90	1.0	Very low active current	3-Pin SOT-23, 3-Pin TO-92, 3-Pin SC-70
MCP103	1.0 to 5.5	4.62, 4.38, 3.07, 2.92, 2.63, 2.3, 1.9	Active Low	CMOS Push-Pull	90	1.0	Very low active current	3-Pin SOT-23, 3-Pin TO-92, 3-Pin SC-70
MCP121	1.0 to 5.5	4.62, 4.38, 3.07, 2.92, 2.63, 2.3, 1.9	Active Low	Open-drain	90	1.0	Very low active current	3-Pin SOT-23, 3-Pin TO-92, 3-Pin SC-70
MCP131	1.0 to 5.5	4.62, 4.38, 3.07, 2.92, 2.63, 2.3, 1.9	Active Low	Open-drain/50 KΩ Pull-Up	90	1.0	Very low active current	3-Pin SOT-23, 3-Pin TO-92, 3-Pin SC-70

Power Management – LDO

Part #	Max. Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Junction Temperature Range (°C)	Typical Active Current (μA)	Typical Dropout Voltage @ Max. (mV)	Typical Output Voltage Accuracy (%)	Features	Packages
MCP1726	6.0	Fixed: 5, 3.3, 3, 2.5, 1.8, 1.2 Adjustable: .8 to 5.0	1000	-40 to +125	140	300	±0.4	Shutdown, Cdelay, PowerGood	8-Pin 3x3 DFN, 8-Pin SOIC

Power Management – Switching Regulators

Part #	Description	Input Voltage Range (V)	Output Voltage Range (V)	Operating Temperature Range (°C)	Control Scheme	Switching Frequency (kHz)	Typical Active Current (mA)	Output Current (mA)	Features	Packages
MCP1612	Synchronous Buck DC/DC Regulator	2.7 to 5.5	0.8 to 5.5	-40 to +85	Constant frequency PWM	1400	10	1000	Overall efficiency >94% soft-start, over-temp. and over-current protection	8-Pin MSOP, 8-Pin 3x3 DFN
MCP1650	Step-up DC/DC controller	2.7 to 5.5	2.5 to ext. tx limited	-40 to +125	Constant frequency, variable DC	750	0.1	±200	2 duty cycles for min. and max. loads, shutdown control	8-Pin MSOP
MCP1651	Step-up DC/DC controller	2.7 to 5.5	2.5 to ext. tx limited	-40 to +125	Constant frequency, variable DC	750	0.1	±200	2 duty cycles for min. and max. loads, shutdown control, low battery detect	8-Pin MSOP
MCP1652	Step-up DC/DC controller	2.7 to 5.5	2.5 to ext. tx limited	-40 to +125	Constant frequency, variable DC	750	0.1	±200	2 duty cycles for min. and max. loads, shutdown control, power-good indicator	8-Pin MSOP
MCP1653	Step-up DC/DC controller	2.7 to 5.5	2.5 to ext. tx limited	-40 to +125	Constant frequency, variable DC	750	0.1	±200	2 duty cycles for min. and max. loads, shutdown control, low battery detect, power-good indicator	10-Pin MSOP

Linear – Operational Amplifiers

Part #	Channels	GBWP	I _o Typ.	V _{os}	Operating Voltage (V)	Temperature Range (°C)	Features	Packages
MCP6231	1	200 kHz	20 µA	7 mV	1.8 to 5.5	-40° to +125	Rail-to-Rail Input/Output	5-Pin SC-70, 5-Pin SOT-23, 8-Pin PDIP, 8-Pin SOIC, 8-Pin MSOP
MCP6232	2	200 kHz	20 µA	7 mV	1.8 to 5.5	-40° to +125	Rail-to-Rail Input/Output	8-Pin PDIP, 8-Pin SOIC, 8-Pin MSOP
MCP6234	4	200 kHz	20 µA	7 mV	1.8 to 5.5	-40° to +125	Rail-to-Rail Input/Output	14-Pin PDIP, 14-Pin SOIC, 14-Pin TSSOP
MCP6241	1	500 kHz	50 µA	7 mV	1.8 to 5.5	-40° to +125	Rail-to-Rail Input/Output	5-Pin SC-70, 5-Pin SOT-23, 8-Pin PDIP, 8-Pin SOIC, 8-Pin MSOP
MCP6242	2	500 kHz	50 µA	7 mV	1.8 to 5.5	-40° to +125	Rail-to-Rail Input/Output	8-Pin PDIP, 8-Pin SOIC, 8-Pin MSOP
MCP6244	4	500 kHz	50 µA	7 mV	1.8 to 5.5	-40° to +125	Rail-to-Rail Input/Output	14-Pin PDIP, 14-Pin SOIC, 14-Pin TSSOP
MCP6275	2	2 MHz	150 µA	3 mV	2.0 to 5.5	-40° to +125	Rail-to-Rail Input/Output, Dual connected with Chip Select	8-Pin PDIP, 8-Pin SOIC, 8-Pin MSOP
MCP6285	2	5 MHz	400 µA	3 mV	2.2 to 5.5	-40° to +125	Rail-to-Rail Input/Output, Dual connected with Chip Select	8-Pin PDIP, 8-Pin SOIC, 8-Pin MSOP
MCP6295	2	10 MHz	1.1 mA	3 mV	2.4 to 5.5	-40° to +125	Rail-to-Rail Input/Output, Dual connected with Chip Select	8-Pin PDIP, 8-Pin SOIC, 8-Pin MSOP

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Linear – Linear Gain Blocks								
Part #	Channels	-3dB BW (kHz)	I _Q (μA)	V _{OS} (mV)	Operating Voltage (V)	Temperature Range (°C)	Gain Steps (V/V)	Packages
MCP6G01	1	1	120	3	1.8 to 5.5	-40 to +125	1, 10, 50	8-Pin PDIP, 8-Pin SOIC, 8-Pin TSSOP
MCP6G02	2	1	120	3	1.8 to 5.5	-40 to +125	1, 10, 50	8-Pin PDIP, 8-Pin SOIC, 8-Pin TSSOP
MCP6G04	4	1	120	3	1.8 to 5.5	-40 to +125	1, 10, 50	14-Pin PDIP, 14-Pin SOIC, 14-Pin TSSOP
MCP6G41	1	10 to 30	1	3	1.8 to 5.5	-40 to +125	1, 10, 50	8-Pin PDIP, 8-Pin SOIC, 8-Pin MSOP
MCP6G42	2	10 to 30	1	3	1.8 to 5.5	-40 to +125	1, 10, 50	8-Pin PDIP, 8-Pin SOIC, 8-Pin MSOP
MCP6G44	4	10 to 30	1	3	1.8 to 5.5	-40 to +125	1, 10, 50	14-Pin PDIP, 14-Pin SOIC, 14-Pin TSSOP

Interface – Infrared Products					
Part #	Operating Voltage (V)	Temperature Range (°C)	Max Baud Rate	Unique Features	Packages
MCP2130	2.7 to 5.5	-40 to +85	16x less than clock input	IrDA encoder/decoder plus transceiver processing. No external IrDA transceiver required.	14-Pin PDIP, 14-Pin SOIC, 14-Pin TSSOP
MCP2135	2.7 to 5.5	-40 to +85	16x less than clock input	Industry standard 8-Pin IrDA® encoder/decoder	8-Pin PDIP, 8-Pin SOIC

Interface – Serial Peripherals							
Part #	Description	Operating Voltage (V)	Operating Temperature (°C)	Bus Type	Max. Bus Frequency (Kbits/s)	Features	Packages
MCP23008	8-bit I/O Port Expander	2.7 to 5.5	-40 to +85	I ² C	1000	3 HW address pins, HW interrupt, 25 mA source/sink capability per I/O	18-Pin PDIP, 18-Pin SOIC, 20-Pin TSSOP