



汽车产品选型指南



Microchip Technology Inc.是致力于智能、互联和安全的嵌入式控制解决方案的领先半导体供应商。其易于使用的开发工具和丰富的产品组合让客户能够创建最佳设计，从而在降低风险的同时减少系统总成本，缩短上市时间。Microchip的解决方案为工业、汽车、消费、航天和国防、通信以及计算市场中12.5万多家客户提供服务。Microchip总部位于美国亚利桑那州Chandler市，提供出色的技术支持、可靠的产品交付和卓越的质量。

功能安全性



最终产品的稳健性、可靠性和安全性变得越来越重要。在某些应用领域中，这些要求是必须且强制执行的；而在其他情况下，这样做是为了体现产品的差异性，以实现好产品到出色产品的进阶。

功能安全性的标准取决于目标市场。很多标准支持多种严苛等级，具体应用取决于出现风险的可能性和严重程度。解决风险的方法包括检测到某个故障后将系统置于安全状态，以及完全冗余，即不仅要检测故障，而且应该在不中断或降低服务的情况下进行修正。

Microchip提供丰富的产品，在系统层面满足功能安全性要求。这表示这些产品具有集成功能、合规的测试库、安全手册和FMEDA报告，具体取决于产品所支持的安全标准和等级。所有的这些均有助于简化符合功能安全标准的应用开发，从而减少工作量并降低最终产品合规性的成本。

推荐用于汽车设计



具有“推荐用于汽车设计”标识的产品是经过精心挑选的，遵循AEC-Q100标准的要求通过测试和认证，并且其设计、开发和制造均满足汽车行业对稳健性、质量和可靠性的期望。材料选择、零缺陷质量控制和测试均高于数据手册的要求，可以最大限度地降低潜在的产品故障。此外，还建立了严格的变更控制机制，以确保满足汽车客户对质量和可靠性的要求，使产品在整个生命周期内始终得到保障。

汽车订购代码

特殊的部件编号用于标识汽车级产品。尽管这些产品具有“推荐用于汽车设计”的标识，还是必须注意确保使用正确的汽车级订购代码。

- 以“VAO”结尾的部件编号是汽车标准产品，任何汽车客户都可以订购。VAO部件编号不提供PPAP。
- PPAP适用于Microchip推荐用于汽车设计的任何产品。对于要求PPAP的客户，定制的部件编号将由PPAP的PSW生成提供。在产品发生变更时，客户将会收到变更通知，仅标识受影响的部件编号。

订购代码示例

1. PIC16F616T-I/SL：标准部件编号
2. PIC16F616T-I/SLVAO：汽车标准部件编号
3. PIC16F616T-I/SLV01：汽车定制部件编号

注：对于Microchip收购公司生产的产品，上述汽车订购代码可能会存在例外。有关汽车产品特殊订购代码的更多信息，请联系您当地的销售代表。

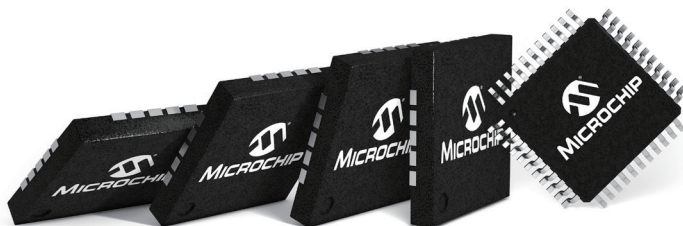
更多信息，请访问microchip.com/automotive。

Microchip的质量方针

为了在降低成本的同时满足甚至超越客户的期望，我们鼓励员工持续改进、预见问题并发现和解决根本原因。

质量认证

Microchip Technology Inc.是经IATF 16949认证的公司。有关Microchip公司及其全球工厂的一系列通用认证，请访问microchip.com/quality。



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8-bit PIC® MCU

Product	Program Memory Size (KB)	SRAM (Bytes)	Emulated EEPROM in Flash	Pin count	Max CPU Speed (MHz)	Peripheral Pin Select/Pin Muxing	Internal Oscillator	Number of Comparators	Number of Op Amps	ADC Input	Max ADC Resolution (Bits)	Max ADC Sampling Rate (ksps)	Number of DACs	Max DAC Resolution (Bits)	Internal Voltage Reference (Bandgap)	Zero Cross detect	Slope Compensation/ Programmable Ramp Generator	CTMU	Max 8-bit Digital Timers	Max 16-bit Digital Timers	Capture/Compare/PWM (CCP)	UART	SPI	I ² C	Number of CAN Modules	LIN	CRC	Cap. Touch Channels	Segmented LCD	Packages
PIC10F320	0.448	64	0/HEF	6	16	No	16 MHz, 32 kHz	0	0	3	8	0	0	0	Yes	No	0	No	2	0	0	0	0	0	0	No	No	3	0	6/SOT-23 8/DFN 8/PDIP
PIC10F322	0.896	64	0/HEF	6	16	No	16 MHz, 32 kHz	0	0	3	8	0	0	0	Yes	No	0	No	2	0	0	0	0	0	0	No	No	3	0	6/SOT-23 8/DFN 8/PDIP 14/PDIP
PIC12F1501	1.75	64	0/HEF	8	20	No	16 MHz, 32 kHz	1	0	4	10	100	1	5	Yes	No	0	No	2	1	0	0	0	0	0	No	No	4	0	8/DFN 8/MSOP 8/PDIP 8/SOIC 150 mil 8/UDFN
PIC12F1571	1.75	128	0/HEF	8	32	No	32 MHz, 32 kHz	1	0	4	10	100	1	5	Yes	No	0	No	2	4	0	0	0	0	0	No	No	4	0	8/DFN 8/MSOP 8/PDIP 8/SOIC 150 mil 8/UDFN
PIC12F1572	3.5	256	0/HEF	8	32	No	32 MHz, 32 kHz	1	0	4	10	100	1	5	Yes	No	0	No	2	4	0	1	0	0	0	No	No	4	0	8/DFN 8/MSOP 8/PDIP 8/SOIC 150 mil 8/UDFN
PIC16F1454	14	1024	0/HEF	14	48	No	16 MHz, 32 kHz	0	0	0	0	0	0	0	No	No	0	No	1	1	0	1	1	1	0	Yes	No	0	0	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/QFN 16/UQFN
PIC16F1455	14	1024	0/HEF	14	48	No	16 MHz, 32 kHz	2	0	5	10	100	1	5	Yes	No	0	No	2	1	0	1	1	1	0	Yes	No	5	0	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/QFN 16/UQFN
PIC16F1459	14	1024	0/HEF	20	48	No	16 MHz, 32 kHz	2	0	9	10	100	1	5	Yes	No	0	No	2	1	0	1	1	1	0	No	No	9	0	20/PDIP 20/QFN 20/SOIC 300mil 20/SSOP 208mil 20/UQFN 28/SOIC 300mil
PIC16F1503	3.5	128	0/HEF	14	20	No	16 MHz	2	0	8	10	100	1	5	Yes	No	0	No	2	1	0	0	1	1	0	No	No	8	0	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/QFN 16/UQFN
PIC16F1507	3.5	128	0/HEF	20	20	No	16 MHz, 32 kHz	0	0	12	10	100	1	5	Yes	No	0	No	2	1	0	0	0	0	0	No	No	12	0	20/PDIP 20/QFN 20/SOIC 300mil 20/SSOP 208mil 20/UQFN
PIC16F1508	7	256	0/HEF	20	20	No	16 MHz, 32 kHz	2	0	12	10	100	1	5	Yes	No	0	No	2	1	0	1	1	1	0	Yes	No	12	0	20/PDIP 20/QFN 20/SOIC 300mil 20/SSOP 208mil 20/UQFN
PIC16F1509	14	512	0/HEF	20	20	No	16 MHz, 32 kHz	2	0	12	10	100	1	5	Yes	No	0	No	2	1	0	1	1	1	0	Yes	No	12	0	20/PDIP 20/QFN 20/SOIC 300mil 20/SSOP 208mil 20/UQFN 28/SPDIP
PIC16F1574	7	512	0/HEF	14	32	Yes	32 MHz, 32 kHz	2	0	8	10	100	1	5	Yes	No	0	No	2	9	0	1	0	0	0	Yes	No	8	0	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/UQFN
PIC16F1575	14	1024	0/HEF	14	32	Yes	32 MHz, 32 kHz	2	0	8	10	100	1	5	Yes	No	0	No	2	9	0	1	0	0	0	Yes	No	8	0	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/UQFN
PIC16F1578	7	512	0/HEF	20	32	Yes	32 MHz, 32 kHz	2	0	12	10	100	1	5	Yes	No	0	No	2	9	0	1	0	0	0	Yes	No	12	0	20/PDIP 20/SOIC 300mil 20/SSOP 208mil 20/UQFN
PIC16F1579	14	1024	0/HEF	20	32	Yes	32 MHz, 32 kHz	2	0	12	10	100	1	5	Yes	No	0	No	2	9	0	1	0	0	0	Yes	No	12	0	20/PDIP 20/SOIC 300mil 20/SSOP 208mil 20/UQFN
PIC16F15313	3.5	256	0/HEF	8	32	Yes	32 MHz, 32 kHz	1	0	5	10	100	1	5	No	Yes	0	No	1	2	2	1	1	1	0	Yes	No	0	0	8/PDIP 8/SOIC 150 mil 8/UDFN
PIC16F15324	7	512	0/HEF	14	32	Yes	32 MHz, 32 kHz	2	0	11	10	100	1	5	No	Yes	0	No	1	2	2	2	1	1	0	Yes	No	0	0	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/UQFN 16/VQFN
PIC16F15325	14	1024	0/HEF	14	32	Yes	32 MHz, 32 kHz	2	0	11	10	100	1	5	No	Yes	0	No	1	2	2	2	1	1	0	Yes	No	0	0	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/UQFN
PIC16F15344	7	512	0/HEF	20	32	Yes	32 MHz, 32 kHz	2	0	17	10	100	1	5	No	Yes	0	No	1	2	2	2	1	1	0	Yes	No	0	0	20/PDIP 20/QFN 20/SOIC 300mil 20/SSOP 208mil 20/UQFN
PIC16F15345	14	1024	0/HEF	20	32	Yes	32 MHz, 32 kHz	2	0	17	10	100	1	5	No	Yes	0	No	1	2	2	2	1	1	0	Yes	No	0	0	20/PDIP 20/SOIC 300mil 20/SSOP 208mil 20/UQFN
PIC16F15354	7	512	0/HEF	28	32	Yes	32 MHz, 32 kHz	2	0	24	10	100	1	5	No	Yes	0	No	1	2	2	2	2	2	0	Yes	No	0	0	28/QFN 28/SOIC 300mil 28/SPDIP 28/SSOP 208mil 28/UQFN 28/VQFN
PIC16F15355	14	1024	0/HEF	28	32	Yes	32 MHz, 32 kHz	2	0	24	10	100	1	5	No	Yes	0	No	1	2	2	2	2	2	0	Yes	No	0	0	28/QFN 28/SOIC 300mil 28/SPDIP 28/SSOP 208mil 28/UQFN
PIC16F15356	28	2048	0/HEF	28	32	Yes	32 MHz, 32 kHz	2	0	24	10	100	1	5	No	Yes	0	No	1	2	2	2	2	2	0	Yes	No	0	0	28/QFN 28/SOIC 300mil 28/SPDIP 28/SSOP 208mil 28/UQFN
PIC16F15375	14	1024	0/HEF	40	32	Yes	32 MHz, 32 kHz	2	0	35	10	100	1	5	No	Yes	0	No	1	2	2	2	2	2	0	Yes	No	0	0	40/PDIP 40/UQFN 44/QFN 44/TQFP
PIC16F15376	28	2048	0/HEF	40	32	Yes	32 MHz, 32 kHz	2	0	35	10	100	1	5	No	Yes	0	No	1	2	2	2	2	2	0	Yes	No	0	0	40/PDIP 40/UQFN 44/QFN 44/TQFP
PIC16F15385	14	1024	0/HEF	48	32	Yes	32 MHz, 32 kHz	2	0	43	10	100	1	5	No	Yes	0	No	1	2	2	2	2	2	0	Yes	No	0	0	48/TQFP 48/UQFN
PIC16F15386	28	2048	0/HEF	48	32	Yes	32 MHz, 32 kHz	2	0	43	10	100	1	5	No	Yes	0	No	1	2	2	2	2	2	0	Yes	No	0	0	48/TQFP 48/UQFN
PIC16F1703	3.5	256	0/HEF	14	32	Yes	32 MHz, 32 kHz	0	2	8	10	100	0	0	Yes	Yes	0	No	2	1	2	0	1	1	0	Yes	No	8	0	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/QFN
PIC16F1704	7	512	0/HEF	14	32	Yes	32 MHz, 32 kHz	2	2	8	10	100	1	8	Yes	Yes	0	No	4	1	2	1	1	1	0	Yes	No	8	0	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/QFN 16/UQFN
PIC16F1705	14	1024	0/HEF	14	32	Yes	32 MHz, 32 kHz	2	2	8	10	100	1	8	Yes	Yes	0	No	4	1	2	1	1	1	0	Yes	No	8	0	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/QFN
PIC16F1707	3.5	256	0/HEF	20	32	Yes	32 MHz, 32 kHz	0	2	12	10	100	0	0	Yes	Yes	0	No	2	1	2	0	1	1	0	Yes	No	12	0	20/PDIP 20/QFN 20/SOIC 300mil 20/SSOP 208mil
PIC16F1708	7	512	0/HEF	20	32	Yes	32 MHz, 32 kHz	2	2	12	10	100	1	8	Yes	Yes	0	No	4	1	2	1	1	1	0	Yes	No	12	0	20/PDIP 20/QFN 20/SOIC 300mil 20/SSOP 208mil 20/UQFN
PIC16F1709	14	1024	0/HEF	20	32	Yes	32 MHz, 32 kHz	2	2	12	10	100	1	8	Yes	Yes	0	No	4	1	2	1	1	1	0	Yes	No	12	0	20/PDIP 20/QFN 20/SOIC 300mil 20/SSOP 208mil

8-bit PIC® MCU																															
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PIC16F1713	7	512	0/HEF	28	32	Yes	32 MHz, 32 kHz	2	2	17	10	100	2	8	Yes	Yes	0	No	4	1	2	1	1	1	0	No	No	17	0	28/QFN 28/SOIC 300mil 28/SPDIP 28/SSOP 208mil 28/UQFN	
PIC16F1716	14	1024	0/HEF	28	32	Yes	32 MHz, 32 kHz	2	2	17	10	100	2	8	Yes	Yes	0	No	4	1	2	1	1	1	0	No	No	17	0	28/QFN 28/SOIC 300mil 28/SPDIP 28/SSOP 208mil 28/UQFN	
PIC16F1717	14	1024	0/HEF	40	32	Yes	32 MHz, 32 kHz	2	2	28	10	100	2	8	Yes	Yes	0	No	4	1	2	1	1	1	0	No	No	28	0	40/PDIP 40/UQFN 44/QFN 44/TQFP	
PIC16F1718	28	2048	0/HEF	28	32	Yes	32 MHz, 32 kHz	2	2	17	10	100	2	8	Yes	Yes	0	No	4	1	2	1	1	1	0	No	No	17	0	28/QFN 28/SOIC 300mil 28/SPDIP 28/SSOP 208mil 28/UQFN	
PIC16F1719	28	2048	0/HEF	40	32	Yes	32 MHz, 32 kHz	2	2	28	10	100	2	8	Yes	Yes	0	No	4	1	2	1	1	1	0	No	No	28	0	40/PDIP 40/UQFN 44/QFN 44/TQFP	
PIC16F1764	7	512	0/HEF	14	32	Yes	32 MHz, 32 kHz	2	1	8	10	100	2	10	Yes	Yes	1	No	4	3	1	1	1	1	0	Yes	No	0	0	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/QFN	
PIC16F1765	14	1024	0/HEF	14	32	Yes	32 MHz, 32 kHz	2	1	8	10	100	2	10	Yes	Yes	1	No	4	3	1	1	1	1	0	Yes	No	0	0	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/QFN	
PIC16F1768	7	512	0/HEF	20	32	Yes	32 MHz, 32 kHz	4	2	12	10	100	4	10	Yes	Yes	2	No	4	3	2	1	1	1	0	Yes	No	0	0	20/PDIP 20/QFN 20/SOIC 300mil 20/SSOP 208mil 20/VQFN	
PIC16F1769	14	1024	0/HEF	20	32	Yes	32 MHz, 32 kHz	4	2	12	10	100	4	10	Yes	Yes	2	No	4	3	2	1	1	1	0	Yes	No	0	0	20/PDIP 20/QFN 20/SOIC 300mil 20/SSOP 208mil	
PIC16F1773	7	512	0/HEF	28	32	Yes	32 MHz, 32 kHz	6	3	17	10	100	6	10	Yes	Yes	3	No	5	3	3	1	1	1	0	Yes	No	17	0	28/SOIC 300mil 28/SPDIP 28/SSOP 208mil 28/UQFN	
PIC16F1776	14	1024	0/HEF	28	32	Yes	32 MHz, 32 kHz	6	3	17	10	100	6	10	Yes	Yes	3	No	5	3	3	1	1	1	0	Yes	No	17	0	28/SOIC 300mil 28/SPDIP 28/SSOP 208mil 28/UQFN	
PIC16F1777	14	1024	0/HEF	40	32	Yes	32 MHz, 32 kHz	8	4	28	10	100	8	10	Yes	Yes	4	No	5	3	4	1	1	1	0	Yes	No	28	0	40/PDIP 40/UQFN 44/QFN 44/TQFP	
PIC16F1778	28	2048	0/HEF	28	32	Yes	32 MHz, 32 kHz	6	3	17	10	100	6	10	Yes	Yes	3	No	5	3	3	1	1	1	0	Yes	No	17	0	28/SOIC 300mil 28/SPDIP 28/SSOP 208mil 28/UQFN	
PIC16F1779	28	2048	0/HEF	40	32	Yes	32 MHz, 32 kHz	8	4	28	10	100	8	10	Yes	Yes	4	No	5	3	4	1	1	1	0	Yes	No	28	0	40/PDIP 40/UQFN 44/QFN 44/TQFP	
PIC16F1788	28	2048	256	28	32	No	32 MHz, 32 kHz	4	2	11	12	75	4	8	Yes	No	0	No	2	1	3	1	1	1	0	No	No	11	0	28/QFN 28/SOIC 300mil 28/SPDIP 28/SSOP 208mil	
PIC16F1789	28	2048	256	40	32	No	32 MHz, 32 kHz	4	3	15	12	75	4	8	Yes	No	0	No	2	1	3	1	1	1	0	No	No	15	0	40/PDIP 40/UQFN 44/QFN 44/TQFP	
PIC16F18313	3.5	256	256	8	32	Yes	32 MHz, 32 kHz	1	0	5	10	100	1	5	Yes	No	0	No	2	1	2	1	1	1	0	No	No	5	0	8/PDIP 8/SOIC 8/SOIC 150 mil 8/UDFN	
PIC16F18323	3.5	256	256	14	32	Yes	32 MHz, 32 kHz	2	0	11	10	100	1	5	Yes	No	0	No	2	1	2	1	1	1	0	No	No	8	0	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/UQFN	
PIC16F18324	7	512	256	14	32	Yes	32 MHz, 32 kHz	2	0	11	10	100	1	5	Yes	No	0	No	4	3	4	1	1	1	0	No	No	11	0	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/UQFN	
PIC16F18325	14	1024	256	14	32	Yes	32 MHz, 32 kHz	2	0	11	10	100	1	5	Yes	No	0	No	4	3	4	1	2	2	0	No	No	11	0	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/UQFN 16/VQFN	
PIC16F18326	28	2048	256	14	32	Yes	32 MHz, 32 kHz	2	0	11	10	100	1	5	Yes	No	0	No	4	3	4	1	2	2	0	No	No	15	0	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/UQFN 16/VQFN	
PIC16F18344	7	512	256	20	32	Yes	32 MHz, 32 kHz	2	0	17	10	100	1	5	Yes	No	0	No	4	3	4	1	1	1	0	No	No	17	0	20/PDIP 20/SOIC 300mil 20/SSOP 208mil 20/UQFN	
PIC16F18345	14	1024	256	20	32	Yes	32 MHz, 32 kHz	2	0	17	10	100	1	5	Yes	No	0	No	4	3	4	1	2	2	0	No	No	17	0	20/PDIP 20/SOIC 300mil 20/SSOP 208mil 20/UQFN 20/VQFN	
PIC18F13K50	8	512	256/HEF	20	48	No	16 MHz, 32 kHz	2	0	9	10	100	0	0	Yes	No	0	No	1	3	0	1	1	1	0	Yes	No	9	0	20/PDIP 20/QFN 20/SOIC 300mil 20/SSOP 208mil	
PIC18F14K50	16	768	256/HEF	20	48	No	16 MHz, 32 kHz	2	0	9	10	100	0	0	Yes	No	0	No	1	3	0	1	1	1	0	Yes	No	9	0	20/PDIP 20/QFN 20/SOIC 300mil 20/SSOP 208mil 28/SOIC 300mil	
PIC18F24K50	16	2048	256/HEF	28	48	No	16 MHz, 32 kHz	2	0	14	10	100	1	5	Yes	No	0	Yes	2	2	1	1	1	1	0	Yes	No	14	0	28/QFN 28/SOIC 300mil 28/SPDIP 28/SSOP 208mil	
PIC18F25K50	32	2048	256/HEF	28	48	No	16 MHz	2	0	14	10	100	1	5	Yes	No	0	Yes	2	2	1	1	1	1	0	Yes	No	14	0	28/QFN 28/SOIC 300mil 28/SPDIP 28/SSOP 208mil	
PIC18F45K50	32	2048	256	40	48	No	16 MHz	2	0	25	10	100	1	5	Yes	No	0	Yes	2	2	0	1	1	1	0	No	No	25	0	40/PDIP 40/UQFN 44/TQFP	
PIC16F18346	28	2048	256	20	32	Yes	32 MHz, 32 kHz	2	0	17	10	100	1	5	Yes	Yes	0	No	4	4	4	1	2	2	0	Yes	No	17	0	20/PDIP 20/QFN 20/SOIC 300mil 20/SSOP 208mil 20/UQFN	
PIC12F1612	3.5	256	0/HEF	8	32	No	32 MHz, 32 kHz	1	0	4	10	0	0	0	No	Yes	0	No	4	1	2	0	0	0	0	No	Yes	0	0	8/DFN 8/PDIP 8/SOIC 150 mil	
PIC16F1613	3.5	256	0/HEF	14	32	No	32 MHz, 32 kHz	2	0	8	10	100	1	8	Yes	Yes	0	No	4	1	2	0	0	0	0	Yes	Yes	8	0	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/QFN	
PIC16F19197	56	4096	256	64	32	Yes	32 MHz, 32 kHz	2	0	45	12	0	1	5	No	Yes		No	2	2	2	2	1	1	0	No	No	0	360	64/QFN 64/TQFP 64/VQFN	
PIC18F25K42	32	8192	1024	28	64	Yes	64 MHZ	2	0	24	12	0	1	8	Yes	Yes	0	No	3	4	4	2	1	2	0	Yes	Yes	24	0	28/QFN 28/SOIC 300mil 28/SPDIP 28/SSOP 208mil 28/UQFN	
PIC18F26K40	64	3728	1024	28	64	Yes	64 MHZ, 64 KHz	2	0	24	10	0	1	5	Yes	Yes	0	No	3	4	2	2	2	2	0	Yes	Yes	24	0	28/QFN 28/SOIC 300mil 28/SPDIP 28/SSOP 208mil 28/UQFN	

8-bit PIC® MCU																														
Product	Program Memory Size (KB)	SRAM (Bytes)	Emulated EEPROM in Flash	Pin count	Max CPU Speed (MHz)	Peripheral Pin Select/Pin Muxing	Internal Oscillator	Number of Comparators	Number of Op Amps	ADC Input	Max ADC Resolution (Bits)	Max ADC Sampling Rate (ksps)	Number of DACs	Max DAC Resolution (Bits)	Internal Voltage Reference (Bandgap)	Zero Cross detect	Slope Compensation/ Programmable Ramp Generator	CTMU	Max 8-bit Digital Timers	Max 16-bit Digital Timers	Capture/Compare/PWM (CCP)	UART	SPI	I ² C	Number of CAN Modules	LIN	CRC	Cap. Touch Channels	Segmented LCD	Packages
PIC18F27K40	128	3728	1024	28	64	Yes	64 MHz, 64 KHz	2	0	24	10	0	1	5	Yes	Yes	0	No	3	4	2	2	2	2	0	Yes	Yes	24	0	28/QFN 28/SOIC 300mil 28/SPDIP 28/SSOP 208mil
PIC18F46K40	64	3728	1024	40	64	Yes	64 MHz, 64 KHz	2	0	35	10	0	1	5	Yes	Yes	0	No	3	4	2	2	2	2	0	Yes	Yes	35	0	40/PDIP 40/UQFN 44/QFN 44/TQFP
PIC18F47K40	128	3728	1024	40	64	Yes	64 MHz, 64 KHz	2	0	35	10	0	1	5	Yes	Yes	0	No	3	4	2	2	2	2	0	Yes	Yes	35	0	40/PDIP 40/UQFN 44/QFN 44/TQFP
PIC18F65K40	32	2048	1024	64	64	Yes	64 MHz, 64 KHz	3	0	47	10	0	1	5	Yes	Yes	0	No	5	4	5	5	2	2	0	Yes	Yes	47	0	64/QFN 64/TQFP
PIC18F66K40	64	3562	1024	64	64	Yes	64 MHz, 64 KHz	3	0	47	10	300	1	5	Yes	Yes	0	No	5	4	5	5	2	2	0	Yes	Yes	47	0	64/QFN 64/TQFP
PIC18F67K40	128	3562	1024	64	64	Yes	64 MHz, 64 KHz	3	0	47	10	300	1	5	Yes	Yes	0	No	5	4	5	5	2	2	0	Yes	Yes	47	0	64/QFN 64/TQFP
PIC16F18854	7	512	256	28	32	Yes	32 MHz, 32 KHz	2	0	24	10	100	1	5	Yes	Yes	0	No	3	4	5	1	2	2	0	Yes	Yes	24	0	28/QFN 28/SOIC 300mil 28/SPDIP 28/SSOP 208mil 28/UQFN 28/VQFN
PIC16F18855	14	1024	256	28	32	Yes	32 MHz, 32 KHz	2	0	24	10	100	1	5	Yes	Yes	0	No	3	4	5	1	2	2	0	Yes	Yes	24	0	28/QFN 28/SOIC 300mil 28/SPDIP 28/SSOP 208mil 28/UQFN
PIC16F18856	28	2048	256	28	32	Yes	32 MHz, 32 KHz	2	0	24	10	100	1	5	Yes	Yes	0	No	3	4	5	1	2	2	0	Yes	Yes	24	0	28/QFN 28/SOIC 300mil 28/SPDIP 28/SSOP 208mil 28/UQFN 28/VQFN
PIC16F18857	56	4096	256	28	32	Yes	32 MHz, 32 KHz	2	0	24	10	100	1	5	Yes	Yes	0	No	3	4	5	1	2	2	0	Yes	Yes	24	0	28/QFN 28/SOIC 300mil 28/SPDIP 28/SSOP 208mil
PIC16F18875	14	1024	256	40	32	Yes	32 MHz, 32 KHz	2	0	35	10	100	1	5	Yes	Yes	0	No	3	4	5	1	2	2	0	Yes	Yes	35	0	40/PDIP 40/UQFN 44/QFN 44/TQFP
PIC16F18876	28	2048	256	40	32	Yes	32 MHz, 32 KHz	2	0	35	10	100	1	5	Yes	Yes	0	No	3	4	5	1	2	2	0	Yes	Yes	35	0	40/PDIP 40/UQFN 44/QFN 44/TQFP
PIC16F18877	56	4096	256	40	32	Yes	32 MHz, 32 KHz	2	0	35	10	100	1	5	Yes	Yes	0	No	3	4	5	1	2	2	0	Yes	Yes	35	0	40/PDIP 40/UQFN 44/QFN 44/TQFP
PIC18F24K40	16	1024	256	28	64	Yes	64 MHz, 64 KHz	2	0	24	10	100	1	5	Yes	Yes	0	No	3	4	2	1	1	1	0	Yes	Yes	24	0	28/QFN 28/SOIC 300mil 28/SPDIP 28/SSOP 208mil 28/UQFN
PIC18F24K42	16	1024	256	28	64	Yes	64 MHz, 64 KHz	2	0	24	12	100	1	5	Yes	Yes	0	No	3	4	4	2	1	2	0	Yes	Yes	24	0	28/QFN 28/SOIC 300mil 28/SPDIP 28/SSOP 208mil 28/UQFN
PIC18F25K40	32	2048	256	28	64	Yes	64 MHz, 64 KHz	2	0	24	10	0	1	5	Yes	Yes	0	No	3	4	2	1	1	1	0	Yes	Yes	24	0	28/QFN 28/SOIC 300mil 28/SPDIP 28/SSOP 208mil 28/UQFN
PIC18F45K40	32	2048	256	40	64	Yes	64 MHz, 64 KHz	2	0	35	10	0	1	5	Yes	Yes	0	No	3	4	2	2	2	2	0	Yes	Yes	35	0	40/PDIP 40/UQFN 44/QFN 44/TQFP
PIC16F1614	7	512	0/HEF	14	32	Yes	32 MHz, 32 KHz	2	0	8	10	100	1	8	Yes	Yes	0	No	4	3	2	1	1	1	0	Yes	Yes	8	0	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/QFN
PIC16F1615	14	1024	0/HEF	14	32	Yes	32 MHz, 32 KHz	2	0	8	10	100	1	8	Yes	Yes	0	No	4	3	2	1	1	1	0	Yes	Yes	8	0	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/QFN

8-bit AVR® MCU																												
Product	Program Memory Size (KB)	SRAM (Bytes)	Emulated EEPROM in Flash	Pin count	Max CPU Speed (MHz)	Peripheral Pin Select / Pin Muxing	Internal Oscillator	Number of Comparators	Number of Op Amps	ADC Input	Max ADC Resolution (Bits)	Max ADC Sampling Rate (ksps)	Number of DACs	Max DAC Resolution (Bits)	Internal Voltage Reference (Bandgap)	Zero Cross detect	Slope Compensation / Programmable Ramp Generator	Max 8-Bit Digital Timers	Max 16-Bit Digital Timers	Capture / Compare/PWM (CCP)	UART	SPI	I²C	Number of CAN Modules	LIN	Cap. Touch Channels	Segmented LCD	Packages
AT90CAN32-AUTOMOTIVE	32	2048	1024	64	16	No	Yes	1	0	8	10	15	0	0	No	No	0	2	2	2	2	1	1	1	No	16	0	64/TQFP 64/VQFN
ATMEGA324P-AUTOMOTIVE	32	2048	1024	44	16	No	Yes	1	0	8	10	15	0	0	No	No	0	2	1	1	2	3	1	0	No	16	0	44/TQFP 44/VQFN
ATMEGA324PB-AUTOMOTIVE	32	2	1024	44	16	No	Yes	1	0	8	10	15	0	0	No	No	0	2	3	3	3	2	2	0	No	256	0	44/TQFP 44/VQFN
ATMEGA328P-AUTOMOTIVE	32	2048	1024	32	16	No	Yes	1	0	8	10	15	0	0	No	No	0	2	1	1	1	2	1	0	No	16	0	32/TQFP 32/VQFN
ATMEGA328PB-AUTOMOTIVE	32	2048	1024	32	16	No	Yes	1	0	8	10	15	0	0	No	No	0	2	3	3	2	2	2	0	No	144	0	32/TQFP 32/VQFN
ATMEGA32M1-AUTOMOTIVE	32	2048	1024	32	16	No	Yes	4	0	11	10	125	1	10	Yes	No	0	1	1	1	1	1	0	1	Yes	12	0	32/TQFP 32/VQFN
ATTINY24-AUTOMOTIVE	2	128	128	14	16	No	Yes	1	0	8	10	15	0	0	No	No	0	0	0	1	0	1	1	0	No	4	0	14/SOIC 150 mil 20/WQFN
ATTINY25-AUTOMOTIVE	2	128	128	8	16	No	Yes	1	0	4	10	15	0	0	No	No	0	0	0	0	0	1	1	0	No	4	0	8/SOIJ 20/WQFN
AT90CAN64-AUTOMOTIVE	64	4096	2048	64	16	No	Yes	1	0	8	10	15	0	0	No	No	0	2	2	2	2	1	1	1	No	16	0	64/TQFP 64/VQFN
ATMEGA644P-AUTOMOTIVE	64	4096	2048	44	16	No	Yes	1	0	8	10	15	0	0	Yes	No	0	1	1	1	2	3	1	0	No	16	0	44/TQFP 44/VQFN
ATMEGA64C1-AUTOMOTIVE	64	4096	2048	32	16	No	Yes	4	0	11	10	125	0	10	Yes	No	0	0	0	1	1	1	0	1	Yes	12	0	32/TQFP 32/VQFN
ATMEGA64M1-AUTOMOTIVE	64	4096	2048	32	16	No	Yes	4	0	11	10	125	1	10	Yes	No	0	1	1	1	1	1	0	1	Yes	12	0	32/TQFP 32/VQFN
ATMEGA48PA-AUTOMOTIVE	4	512	256	32	16	No	Yes	1	0	8	10	15	0	0	Yes	No	0	2	1	1	1	2	1	0	No	12	0	32/TQFP 32/VQFN
ATTINY44-AUTOMOTIVE	4	256	256	14	16	No	Yes	1	0	8	10	15	0	0	No	No	0	0	0	1	0	1	1	0	No	6	0	14/SOIC 150 mil 20/WQFN
ATTINY45-AUTOMOTIVE	4	256	256	8	16	No	Yes	1	0	4	10	15	0	0	No	No	0	0	0	0	0	1	1	0	No	3	0	Please call for package information
ATTINY461-AUTOMOTIVE	4	256	256	20	16	No	Yes	1	0	11	10	15	0	0	Yes	No	0	1	1	1	0	1	1	0	No	8	0	20/SOIC 300 mil 20/TSSOP 20/WQFN 32/VQFN
AT90CAN128-AUTOMOTIVE	128	4096	4096	64	16	No	Yes	1	0	8	10	15	0	0	No	No	0	2	2	2	2	1	1	1	No	16	0	64/TQFP 64/VQFN
ATMEGA164P-AUTOMOTIVE	16	1024	512	44	16	No	Yes	1	0	8	10	15	0	0	Yes	No	0	2	1	1	2	3	1	0	No	16	0	44/TQFP 44/VQFN
ATMEGA168-AUTOMOTIVE	16	1024	512	32	16	No	Yes	1	0	8	10	15	0	0	No	No	0	2	1	1	1	2	1	0	No	16	0	32/TQFP 32/VQFN
ATMEGA169P-AUTOMOTIVE	16	1024	512	64	16	No	Yes	1	0	8	10	15	0	0	Yes	No	0	2	1	1	1	2	1	0	No	16	100	64/TQFP 64/VQFN
ATMEGA16M1-AUTOMOTIVE	16	1024	512	32	16	No	Yes	4	0	11	10	125	0	10	Yes	No	0	1	1	1	1	1	0	1	Yes	12	0	32/TQFP 32/VQFN
ATMEGA88-AUTOMOTIVE	8	1024	512	32	16	No	Yes	1	0	8	10	15	0	0	No	No	0	2	1	1	1	2	1	0	No	12	0	32/TQFP 32/VQFN
Atmega88PA	8	1024	512	32	20	No	Yes	1	0	8	10	15	0	0	Yes	No	0	2	1	1	1	2	1	0	No	12	0	28/SPDIP 28/VQFN 32/TQFP 32/UFPGA 32/VQFN
ATTINY167-AUTOMOTIVE	16	512	512	20	16	No	Yes	1	0	11	10	15	0	0	Yes	No	0	1	1	1	1	2	1	0	Yes	8	0	20/SOIC 300 mil 20/TSSOP 32/VQFN
ATTINY84-AUTOMOTIVE	8	512	512	14	16	No	Yes	1	0	8	10	15	0	0	Yes	No	0	1	1	1	0	1	1	0	No	6	0	20/WQFN
ATTINY85-AUTOMOTIVE	8	512	512	8	16	No	Yes	1	0	4	10	15	0	0	No	No	0	0	0	0	0	1	1	0	No	3	0	8/SOIJ 20/WQFN
ATTINY861-AUTOMOTIVE	8	512	512	20	16	No	Yes	1	0	11	10	15	0	0	Yes	No	0	1	1	1	0	1	1	0	No	8	0	20/SOIC 300 mil 20/TSSOP 20/WQFN 32/VQFN
ATTINY87-AUTOMOTIVE	8	0	512	20	16	No	Yes	1	0	11	10	15	0	0	No	No	0	0	0	1	1	2	1	0	Yes	0	0	20/SOIC 300 mil 20/TSSOP 32/VQFN
ATTINY88-AUTOMOTIVE	8	512	64	32	16	No	Yes	1	0	8	10	15	0	0	No	No	0	0	0	1	0	1	1	0	No	12	0	32/TQFP 32/VQFN
ATTINY416	4	256	128 / HEF	20	20	Yes	20 MHz, 32 kHz	1	0	12	10	0	1	8	Yes	No	0	1	2	0	1	1	1	0	No	9	0	20/SOIC 20/SOIC 300 mil 20/VQFN
ATTINY417	4	256	128 / HEF	24	20	Yes	20 MHz, 32 kHz	1	0	12	10	0	1	8	Yes	No	0	0	6	3	1	1	1	0	No	0	0	24/VQFN
ATTINY816	8	512	128 / HEF	20	20	Yes	20 MHz, 32 kHz	1	0	12	10	0	1	8	Yes	No	0	1	2	3	1	1	1	0	No	9	0	20/SOIC 300 mil 20/VQFN
ATTINY817	8	512	128 / HEF	24	20	Yes	20 MHz, 32 kHz	1	0	12	10	0	1	8	Yes	No	0	1	2	3	1	1	1	0	No	9	0	24/VQFN
ATTINY1616	16	2048	256 / HEF	20	20	Yes	20 MHz, 32 kHz	3	0	16	10	115	3	8	Yes	No	0	1	3	0	1	1	1	0	No	36	0	20/SOIC 300 mil 20/VQFN
ATTINY1617	16	2048	256 / HEF	24	20	Yes	20 MHz, 32 kHz	3	0	20	10	115	3	8	Yes	No	0	1	3	0	1	1	1	0	No	49	0	24/VQFN

16-bit Microcontrollers and DSCs

Product	CPU Speed (MIPS/DMIPS)	Program Memory Size (KB)	SRAM (Bytes)	Data EEPROM/HEF (Bytes)	Direct Memory Access Channels	Temp Range Max	Max I/O Pins	Pin count	Number of Comparators	ADC Input	Max ADC Resolution (Bits)	Max ADC Sample/Hold	Number of DACs	Max DAC Resolution (Bits)	Number of Op Amps	UART	SPI	I2C	I2S	Hardware RTCC/RTC	Motor Control PWM Outputs	SMPs PWM Outputs	Input Capture	Number of USB Modules	Number of CAN Modules	LIN	Quadrature Encoder Interface	Peripheral Pin Select / Pin Muxing	Parallel Port	Packages
dsPIC33FJ06GS001	40	6	256	0	0	125	13	18	2	6	10	1	2	10	0	1	1	1	0	No	4	4	0	0	0	Yes	0	Yes	GPIO	18/PDIP 18/SOIC 20/SSOP
dsPIC33FJ06GS101A	40	6	256	0	0	125	13	18	0	6	10	1	0	0	0	1	1	1	0	No	4	4	0	0	0	Yes	0	Yes	GPIO	18/PDIP 18/SOIC 20/SSOP
dsPIC33FJ06GS102A	40	6	256	0	0	125	21	28	0	6	10	1	0	0	0	1	1	1	0	No	4	4	0	0	0	Yes	0	Yes	GPIO	28/QFN-S 28/SOIC 28/SPDIP 28/SSOP 36/VTLA
dsPIC33FJ06GS202A	40	6	1024	0	0	125	21	28	2	6	10	1	2	10	0	1	1	1	0	No	4	4	1	0	0	Yes	0	Yes	GPIO	28/QFN-S 28/SOIC 28/SPDIP 28/SSOP 36/VTLA
dsPIC33FJ09GS302	40	9	1024	0	0	125	21	28	2	8	10	1	2	10	0	1	1	1	0	No	6	6	1	0	0	Yes	0	Yes	GPIO	28/QFN-S 28/SOIC 28/SPDIP 28/SSOP 28/UQFN 36/VTLA
PIC24F04KA200	16	4	512	0	0	125	12	14	2	7	10	1	0	0	0	1	1	1	0	No	0	0	1	0	0	Yes	0	No	GPIO	14/PDIP 14/TSSOP
PIC24F04KA201	16	4	512	0	0	125	18	20	2	9	10	1	0	0	0	1	1	1	0	No	0	0	1	0	0	Yes	0	No	GPIO	20/PDIP 20/QFN 20/SOIC 20/SSOP
PIC24F04KL100	16	4	512	0	0	85	12	14	1	0	0	1	0	0	0	1	1	1	0	No	0	0	2	0	0	Yes	0	No	GPIO	14/PDIP 14/TSSOP
PIC24F04KL101	16	4	512	0	0	85	17	20	1	0	0	1	0	0	0	1	1	1	0	No	0	0	2	0	0	Yes	0	No	GPIO	20/PDIP 20/QFN 20/SSOP
PIC24F08KA101	16	8	1536	512	0	125	18	20	2	9	10	1	0	0	0	2	1	1	0	No	0	0	1	0	0	Yes	0	No	GPIO	20/PDIP 20/QFN 20/SOIC 20/SSOP
PIC24F08KA102	16	8	1536	512	0	125	24	28	2	9	10	1	0	0	0	2	1	1	0	No	0	0	1	0	0	Yes	0	No	GPIO	28/QFN 28/SOIC 28/SPDIP 28/SSOP
PIC24F08KL200	16	8	512	0	0	85	12	14	1	7	10	1	0	0	0	1	1	1	0	No	0	0	2	0	0	Yes	0	No	GPIO	14/PDIP 14/TSSOP
PIC24F08KL201	16	8	512	0	0	85	17	20	1	12	10	1	0	0	0	1	1	1	0	No	0	0	2	0	0	Yes	0	No	GPIO	20/PDIP 20/QFN 20/SOIC 20/SSOP
PIC24F08KL301	16	8	1024	256	0	85	18	20	2	0	0	1	0	0	0	2	2	2	0	No	0	0	3	0	0	Yes	0	No	GPIO	20/PDIP 20/QFN 20/SOIC 20/SSOP 20/SSOP 208mil
PIC24F08KL302	16	8	1024	256	0	85	24	28	2	0	0	1	0	0	0	2	2	2	0	No	0	0	3	0	0	Yes	0	No	GPIO	28/QFN 28/SOIC 28/SPDIP 28/SSOP
PIC24F08KL401	16	8	1024	512	0	85	18	20	2	12	10	1	0	0	0	2	2	2	0	No	0	0	3	0	0	Yes	0	No	GPIO	20/PDIP 20/QFN 20/SOIC 20/SSOP
PIC24F08KL402	16	8	1024	512	0	85	24	28	2	12	10	1	0	0	0	2	2	2	0	No	0	0	3	0	0	Yes	0	No	GPIO	28/QFN 28/SOIC 28/SPDIP 28/SSOP
PIC24F16KA101	16	16	1536	512	0	125	18	20	2	9	10	1	0	0	0	2	1	1	0	No	0	0	1	0	0	Yes	0	No	GPIO	20/PDIP 20/QFN 20/SOIC 20/SSOP 300mil 20/SSOP
PIC24F16KA102	16	16	1536	512	0	125	24	28	2	9	10	1	0	0	0	2	1	1	0	No	0	0	1	0	0	Yes	0	No	GPIO	28/QFN 28/SOIC 28/SPDIP 28/SSOP 128/LQFP
PIC24F16KA301	16	16	2048	512	0	125	18	20	3	12	12	1	0	0	0	2	2	2	0	No	0	0	3	0	0	Yes	0	No	GPIO	20/PDIP 20/SOIC 20/SSOP
PIC24F16KA302	16	16	2048	512	0	125	24	28	3	13	12	1	0	0	0	2	2	2	0	No	0	0	3	0	0	Yes	0	No	GPIO	28/QFN 28/SOIC 28/SPDIP 28/SSOP
PIC24F16KA304	16	16	2048	512	0	125	38	44	3	16	12	1	0	0	0	2	2	2	0	No	0	0	3	0	0	Yes	0	No	GPIO	44/QFN 44/TQFP 48/UQFN
PIC24F16KL401	16	16	1024	512	0	85	18	20	2	12	10	1	0	0	0	2	2	2	0	No	0	0	3	0	0	Yes	0	No	GPIO	20/PDIP 20/QFN 20/SOIC 20/SSOP
PIC24F16KL402	16	16	1024	512	0	85	24	28	2	12	10	1	0	0	0	2	0	0	0	No	0	0	3	0	0	Yes	0	No	GPIO	28/QFN 28/SOIC 28/SPDIP 28/SSOP
PIC24F32KA301	16	32	2048	512	0	125	18	20	3	12	12	1	0	0	0	2	2	2	0	No	0	0	3	0	0	Yes	0	No	GPIO	20/PDIP 20/SOIC 20/SSOP 20/SSOP 208mil
PIC24F32KA302	16	32	2048	512	0	125	24	28	3	13	12	1	0	0	0	2	2	2	0	No	0	0	3	0	0	Yes	0	No	GPIO	28/QFN 28/SOIC 28/SPDIP 28/SSOP
PIC24F32KA304	16	32	2048	512	0	125	38	44	3	16	12	1	0	0	0	2	2	2	0	No	0	0	3	0	0	Yes	0	No	GPIO	44/QFN 44/TQFP 48/UQFN
PIC24FJ16GA002	16	16	4096	0	0	125	21	28	2	10	10	1	0	0	0	2	2	2	0	No	0	0	5	0	0	Yes	0	Yes	PMP	28/QFN 28/SOIC 28/SPDIP 28/SSOP
PIC24FJ16GA004	16	16	4096	0	0	125	35	44	2	13	10	1	0	0	0	2	2	2	0	No	0	0	5	0	0	Yes	0	Yes	PMP	44/QFN 44/TQFP
PIC24FJ32GA002	16	32	8192	0	0	125	21	28	2	10	10	1	0	0	0	2	2	2	0	No	0	0	5	0	0	Yes	0	Yes	PMP	28/QFN 28/SOIC 28/SPDIP 28/SSOP
PIC24FJ32GA004	16	32	8192	0	0	125	35	44	2	13	10	1	0	0	0	2	2	2	0	No	0	0	5	0	0	Yes	0	Yes	PMP	44/QFN 44/TQFP
PIC24FJ48GA002	16	48	8192	0	0	125	21	28	2	10	10	1	0	0	0	2	2	2	0	No	0	0	5	0	0	Yes	0	Yes	PMP	28/QFN 28/SOIC 28/SOIC 300mil 28/SPDIP 28/SSOP
PIC24FJ48GA004	16	48	8192	0	0	125	35	44	2	13	10	1	0	0	0	2	2	2	0	No	0	0	5	0	0	Yes	0	Yes	PMP	44/QFN 44/TQFP
PIC24FJ64GA002	16	64	8192	0	0	125	21	28	2	10	10	1	0	0	0	2	2	2	0	No	0	0	5	0	0	Yes	0	Yes	PMP	28/QFN 28/SOIC 28/SPDIP 28/SSOP
PIC24FJ64GA004	16	64	8192	0	0	125	35	44	2	13	10	1	0	0	0	2	2	2	0	No	0	0	5	0	0	Yes	0	Yes	PMP	44/QFN 44/TQFP
dsPIC33CH128MP202	100	128	20480	0	8	150	21	28	4	12	12	0	4	12	0	3	3	3	3	No	12	12	0	0	0	Yes	1	Yes	No	28/SSOP 28/UQFN
dsPIC33CH128MP203	100	128	20480	0	8	150	27	36	4	17	12	0	4	12	0	3	3	3	3	No	12	12	0	0	0	Yes	1	Yes	No	36/UQFN
dsPIC33CH128MP205	100	128	20480	0	8	150	39	48	4	19	12	0	4	12	0	3	3	3	3	No	12	12	0	0	0	Yes	1	Yes	No	48/TQFP 48/UQFN
dsPIC33CH128MP206	100	128	20480	0	8	150	53	64	4	23	12	0	4	12	0	3	3	3	3	No	12	12	0	0	0	Yes	1	Yes	No	64/QFN 64/TQFP
dsPIC33CH128MP208	100	128	20480	0	8	150	69	80	4	23	12	0	4	12	0	3	3	3	3	No	12	12	0	0	0	Yes	1	Yes	No	80/TQFP

16-bit Microcontrollers and DSCs																														
Product	CPU Speed (MIPS/DMIPS)	Program Memory Size (KB)	SRAM (Bytes)	Data EEPROM/HEF (Bytes)	Direct Memory Access Channels	Temp Range Max	Max I/O Pins	Pin count	Number of Comparators	ADC Input	Max ADC Resolution (Bits)	Max ADC Sample/Hold	Number of DACs	Max DAC Resolution (Bits)	Number of Op Amps	UART	SPI	I2C	I2S	Hardware RTCC/RTC	Motor Control PWM Outputs	SMPS PWM Outputs	Input Capture	Number of USB Modules	Number of CAN Modules	LIN	Quadrature Encoder Interface	Peripheral Pin Select / Pin Muxing	Parallel Port	Packages
dsPIC33CH128MP502	100	128	20480	0	8	150	21	28	4	12	12	0	4	12	0	3	3	3	3	No	12	12	0	0	1	Yes	1	Yes	No	28/SSOP 28/UQFN
dsPIC33CH128MP503	100	128	20480	0	8	150	27	36	4	17	12	0	4	12	0	3	3	3	3	No	12	12	0	0	1	Yes	1	Yes	No	36/UQFN
dsPIC33CH128MP505	100	128	20480	0	8	150	39	48	4	19	12	0	4	12	0	3	3	3	3	No	12	12	0	0	1	Yes	1	Yes	No	48/TQFP 48/UQFN
dsPIC33CH128MP506	100	128	20480	0	8	150	53	64	4	23	12	0	4	12	0	3	3	3	3	No	12	12	0	0	1	Yes	1	Yes	No	64/QFN 64/TQFP
dsPIC33CH128MP508	100	128	20480	0	8	150	69	80	4	23	12	0	4	12	0	3	3	3	3	No	12	12	0	0	1	Yes	1	Yes	No	80/TQFP
dsPIC33CH64MP202	100	64	20480	0	8	150	21	28	4	12	12	0	4	12	0	3	3	3	3	No	12	12	0	0	0	Yes	1	Yes	No	28/SSOP 28/UQFN
dsPIC33CH64MP203	100	64	20480	0	8	150	27	36	4	17	12	0	4	12	0	3	3	3	3	No	12	12	0	0	0	Yes	1	Yes	No	36/UQFN
dsPIC33CH64MP205	100	64	20480	0	8	150	39	48	4	19	12	0	4	12	0	3	3	3	3	No	12	12	0	0	0	Yes	1	Yes	No	48/TQFP 48/UQFN
dsPIC33CH64MP206	100	64	20480	0	8	125	53	64	4	23	12	0	4	12	0	3	3	3	3	No	12	12	0	0	0	Yes	1	Yes	No	64/QFN 64/TQFP
dsPIC33CH64MP208	100	64	20480	0	8	150	69	80	4	23	12	0	4	12	0	3	3	3	3	No	12	12	0	0	0	Yes	1	Yes	No	80/TQFP
dsPIC33CH64MP502	100	64	20480	0	8	150	21	28	4	12	12	0	4	12	0	3	3	3	3	No	12	12	0	0	1	Yes	1	Yes	No	28/SSOP 28/UQFN
dsPIC33CH64MP503	100	64	20480	0	8	150	27	36	4	17	12	0	4	12	0	3	3	3	3	No	12	12	0	0	1	Yes	1	Yes	No	36/UQFN
dsPIC33CH64MP505	100	64	20480	0	8	150	39	48	4	19	12	0	4	12	0	3	3	3	3	No	12	12	0	0	1	Yes	1	Yes	No	48/TQFP 48/UQFN
dsPIC33CH64MP506	100	64	20480	0	8	150	53	64	4	23	12	0	4	12	0	3	3	3	3	No	12	12	0	0	1	Yes	1	Yes	No	64/QFN 64/TQFP
dsPIC33CH64MP508	100	64	20480	0	8	150	69	80	4	23	12	0	4	12	0	3	3	3	3	No	12	12	0	0	1	Yes	1	Yes	No	80/TQFP
dsPIC33FJ128GP202	40	128	8192	0	8	125	21	28	2	10	12	1	1	4	0	2	2	1	0	No	0	0	4	0	0	Yes	0	Yes	PMP	28/QFN-S 28/SOIC 28/SPDIP
dsPIC33FJ128GP204	40	128	8192	0	8	125	35	44	2	13	12	1	1	4	0	2	2	1	0	No	0	0	4	0	0	Yes	0	Yes	PMP	44/QFN 44/TQFP
dsPIC33FJ128GP206A	40	128	8192	0	8	125	53	64	0	18	12	1	0	0	0	2	2	2	1	No	0	0	8	0	0	Yes	0	No	GPIO	64/QFN 64/TQFP
dsPIC33FJ128GP306A	40	128	16384	0	8	125	53	64	0	18	12	1	0	0	0	2	2	2	1	No	0	0	8	0	0	Yes	0	No	GPIO	64/QFN 64/TQFP
dsPIC33FJ128GP310A	40	128	16384	0	8	125	85	100	0	32	12	1	0	0	0	2	2	2	1	No	0	0	8	0	0	Yes	0	No	GPIO	100/TQFP
dsPIC33FJ128GP706A	40	128	16384	0	8	150	53	64	0	18	12	1	0	0	0	2	2	2	1	No	0	0	8	0	2	Yes	0	No	GPIO	64/QFN 64/TQFP
dsPIC33FJ128GP708A	40	128	16384	0	8	125	69	80	0	24	12	1	0	0	0	2	2	2	1	No	0	0	8	0	2	Yes	0	No	GPIO	80/TQFP
dsPIC33FJ128GP710A	40	128	16384	0	8	150	85	100	0	32	12	1	0	0	0	2	2	2	1	No	0	0	8	0	2	Yes	0	No	GPIO	100/TQFP
dsPIC33FJ128GP802	40	128	16384	0	8	125	21	28	2	10	12	1	2	16	0	2	2	1	0	No	0	0	4	0	1	Yes	0	Yes	PMP	28/QFN-S 28/SOIC 28/SPDIP
dsPIC33FJ128GP804	40	128	16384	0	8	150	35	44	2	13	12	1	2	16	0	2	2	1	0	No	0	0	4	0	1	Yes	0	Yes	PMP	44/QFN 44/TQFP
dsPIC33FJ128MC202	40	128	8192	0	8	150	21	28	2	6	12	1	1	4	0	2	2	1	0	No	8	0	4	0	0	Yes	2	Yes	PMP	28/QFN-S 28/SOIC 28/SPDIP
dsPIC33FJ128MC204	40	128	8192	0	8	150	35	44	2	9	12	1	1	4	0	2	2	1	0	No	8	0	4	0	0	Yes	2	Yes	PMP	44/QFN 44/TQFP
dsPIC33FJ128MC506A	40	128	8192	0	8	150	53	64	0	16	12	1	0	0	0	2	2	2	0	No	8	0	8	0	1	Yes	1	No	GPIO	64/QFN 64/TQFP
dsPIC33FJ128MC510A	40	128	8192	0	8	125	85	100	0	24	12	1	0	0	0	2	2	2	0	No	8	0	8	0	1	Yes	1	No	GPIO	100/TQFP
dsPIC33FJ128MC706A	40	128	16384	0	8	150	53	64	0	16	12	1	0	0	0	2	2	2	0	No	8	0	8	0	1	Yes	1	No	GPIO	64/QFN 64/TQFP
dsPIC33FJ128MC708A	40	128	16384	0	8	125	69	80	0	18	12	1	0	0	0	2	2	2	0	No	8	0	8	0	2	Yes	1	No	GPIO	80/TQFP
dsPIC33FJ128MC710A	40	128	16384	0	8	150	85	100	0	24	12	1	0	0	0	2	2	2	0	No	8	0	8	0	2	Yes	1	No	GPIO	100/TQFP
dsPIC33FJ128MC802	40	128	16384	0	8	150	21	28	2	6	12	1	1	4	0	2	2	1	0	No	8	0	4	0	1	Yes	2	Yes	PMP	28/QFN-S 28/SOIC 28/SPDIP
dsPIC33FJ128MC804	40	128	16384	0	8	150	35	44	2	9	12	1	2	16	0	2	2	1	0	No	8	0	4	0	1	Yes	2	Yes	PMP	44/QFN 44/TQFP
dsPIC33FJ12GP201	40	12	1024	0	0	125	13	20	0	6	12	1	0	0	0	1	1	1	0	No	0	0	4	0	0	Yes	0	Yes	GPIO	18/PDIP 18/SOIC
dsPIC33FJ12GP202	40	12	1024	0	0	125	21	28	0	10	12	1	0	0	0	1	1	1	0	No	0	0	4	0	0	Yes	0	Yes	GPIO	28/QFN 28/SOIC 28/SPDIP 28/SSOP
dsPIC33FJ12MC201	40	12	1024	0	0	125	15	20	0	4	12	1	0	0	0	1	1	1	0	No	8	0	4	0	0	Yes	1	Yes	GPIO	20/PDIP 20/SOIC 20/SSOP
dsPIC33FJ12MC202	40	12	1024	0	0	125	21	28	0	6	12	1	0	0	0	1	1	1	0	No	8	0	4	0	0	Yes	1	Yes	GPIO	28/QFN 28/SOIC 28/SPDIP 28/SSOP
dsPIC33FJ16GP101	16	16	1024	0	0	125	13	20	3	4	10	1	1	4	0	1	1	1	0	Yes	0	0	3	0	0	Yes	0	Yes	GPIO	18/PDIP 18/SOIC 20/SSOP
dsPIC33FJ16GP102	16	16	1024	0	0	125	21	28	3	6	10	1	1	4	0	1	1	1	0	Yes	0	0	3	0	0	Yes	0	Yes	GPIO	28/QFN 28/SOIC 28/SPDIP 28/SSOP
dsPIC33FJ16GP304	40	16	2048	0	0	125	35	44	0	13	12	1	0	0	0	1	1	1	0	No	0	0	4	0	0	Yes	0	Yes	GPIO	44/QFN 44/TQFP
dsPIC33FJ16GS402	50	16	2048	0	0	150	21	28	0	8	10	1	0	0	0	1	1	1	0	No	6	6	2	0	0	Yes	0	Yes	GPIO	28/QFN-S 28/SOIC 28/SPDIP
dsPIC33FJ16GS404	50	16	2048	0	0	150	35	44	0	8	10	1	0	0	0	1	1	1	0	No	6	6	2	0	0	Yes	0	Yes	GPIO	44/QFN 44/TQFP 44/VTLA
dsPIC33FJ16GS502	50	16	2048	0	0	150	21	28	4	8	10	1	4	10	0	1	1	1	0	No	8	8	2	0	0	Yes	0	Yes	GPIO	28/QFN-S 28/SOIC 28/SOIC 300mil 28/SPDIP 28/UQFN
dsPIC33FJ16GS504	50	16	2048	0	0	150	35	44	4	12	10	1	4	10	0	1	1	1	0	No	8	8	2	0	0	Yes	0	Yes	GPIO	44/QFN 44/TQFP 44/VTLA

16-bit Microcontrollers and DSCs

Product	CPU Speed (MIPS/DMIPS)	Program Memory Size (KB)	SRAM (Bytes)	Data EEPROM/HEF (Bytes)	Direct Memory Access Channels	Temp Range Max	Max I/O Pins	Pin count	Number of Comparators	ADC Input	Max ADC Resolution (Bits)	Max ADC Sample/Hold	Number of DACs	Max DAC Resolution (Bits)	Number of Op Amps	UART	SPI	I2C	I2S	Hardware RTCC/RTC	Motor Control PWM Outputs	SMPS PWM Outputs	Input Capture	Number of USB Modules	Number of CAN Modules	LIN	Quadrature Encoder Interface	Peripheral Pin Select / Pin Muxing	Parallel Port	Packages
dsPIC33FJ16MC101	16	16	1024	0	0	125	15	20	3 4	10	1	1	4	0	1	1	1	0	Yes	6	0	3	0	0	Yes	0	Yes	GPIO	20/PDIP 20/SOIC 20/SOIC 300mil 20/SSOP	
dsPIC33FJ16MC102	16	16	1024	0	0	125	21	28	3 6	10	1	1	4	0	1	1	1	0	Yes	6	0	3	0	0	Yes	0	Yes	GPIO	28/QFN 28/SOIC 28/SPDIP 28/SSOP	
dsPIC33FJ16MC304	40	16	2048	0	0	150	35	44	0 9	12	1	0	0	0	1	1	1	0	No	8	0	4	0	0	Yes	1	Yes	GPIO	44/QFN 44/TQFP	
dsPIC33FJ256GP506A	40	256	16384	0	8	125	53	64	0 18	12	1	0	0	0	2	2	2	1	No	0	0	8	0	1	Yes	0	No	GPIO	48/CSP 64/QFN 64/TQFP	
dsPIC33FJ256GP510A	40	256	16384	0	8	150	85	100	0 32	12	1	0	0	0	2	2	2	1	No	0	0	8	0	1	Yes	0	No	GPIO	100/TQFP	
dsPIC33FJ256GP710A	40	256	30720	0	8	150	85	100	0 32	12	1	0	0	0	2	2	2	1	No	0	0	8	0	2	Yes	0	No	GPIO	100/TQFP	
dsPIC33FJ256MC510A	40	256	16384	0	8	125	85	100	0 24	12	1	0	0	0	2	2	2	0	No	8	0	8	0	1	Yes	1	No	GPIO	100/TQFP	
dsPIC33FJ256MC710A	40	256	30720	0	8	150	85	100	0 24	12	1	0	0	0	2	2	2	0	No	8	0	8	0	2	Yes	1	No	GPIO	100/TQFP	
dsPIC33FJ32GP101	16	32	2048	0	0	125	13	20	3 6	10	1	1	4	0	1	1	1	0	Yes	0	0	3	0	0	Yes	0	Yes	GPIO	18/PDIP 18/SOIC 20/SSOP	
dsPIC33FJ32GP102	16	32	2048	0	0	125	21	28	3 8	10	1	1	4	0	1	1	1	0	Yes	0	0	3	0	0	Yes	0	Yes	GPIO	28/SOIC 28/SPDIP 28/SSOP	
dsPIC33FJ32GP104	16	32	2048	0	0	125	35	44	3 14	10	1	1	4	0	1	1	1	0	Yes	0	0	3	0	0	Yes	0	Yes	GPIO	44/QFN 44/TQFP	
dsPIC33FJ32GP202	40	32	2048	0	0	125	21	28	0 10	12	1	0	0	0	1	1	1	0	No	0	0	4	0	0	Yes	0	Yes	GPIO	28/QFN-S 28/SOIC 28/SPDIP 28/SSOP	
dsPIC33FJ32GP204	40	32	2048	0	0	150	35	44	0 13	12	1	0	0	0	1	1	1	0	No	0	0	4	0	0	Yes	0	Yes	GPIO	44/QFN 44/TQFP	
dsPIC33FJ32GP302	40	32	4096	0	8	125	21	28	2 10	12	1	1	4	0	2	2	1	0	No	0	0	4	0	0	Yes	0	Yes	PMP	28/QFN-S 28/SOIC 28/SPDIP	
dsPIC33FJ32GP304	40	32	4096	0	8	125	35	44	2 13	12	1	1	4	0	2	2	1	0	No	0	0	4	0	0	Yes	0	Yes	PMP	44/QFN 44/TQFP	
dsPIC33FJ32MC101	16	32	2048	0	0	125	15	20	3 4	10	1	1	4	0	1	1	1	0	No	6	0	3	0	0	Yes	0	Yes	GPIO	20/PDIP 20/SOIC 20/SSOP	
dsPIC33FJ32MC102	16	32	2048	0	0	125	21	28	3 8	10	1	1	4	0	1	1	1	0	No	6	0	3	0	0	Yes	0	Yes	GPIO	28/QFN 28/SOIC 28/SPDIP 28/SSOP 36/VTLA	
dsPIC33FJ32MC104	16	32	2048	0	0	125	35	44	3 14	10	1	1	4	0	1	1	1	0	No	6	0	3	0	0	Yes	0	Yes	GPIO	44/TQFP 44/VTLA	
dsPIC33FJ32MC202	40	32	2048	0	0	150	21	28	0 6	12	1	0	0	0	1	1	1	0	No	8	0	4	0	0	Yes	1	Yes	GPIO	28/QFN-S 28/SOIC 28/SPDIP 28/SSOP 28/SSOP 208mil	
dsPIC33FJ32MC204	40	32	2048	0	0	150	35	44	0 9	12	1	0	0	0	1	1	1	0	No	8	0	4	0	0	Yes	1	Yes	GPIO	44/QFN 44/TQFP	
dsPIC33FJ32MC302	40	32	4096	0	0	150	21	28	2 6	12	1	1	4	0	2	2	1	0	No	8	0	4	0	0	Yes	2	Yes	PMP	28/QFN-S 28/SOIC 28/SPDIP	
dsPIC33FJ32MC304	40	32	4096	0	0	125	35	44	2 9	12	1	1	4	0	2	2	1	0	No	8	0	4	0	0	Yes	2	Yes	PMP	44/QFN 44/TQFP	
dsPIC33FJ64GP202	40	64	8192	0	8	125	21	28	2 10	12	1	1	4	0	2	2	1	0	No	0	0	4	0	0	Yes	0	Yes	PMP	28/QFN-S 28/SOIC 28/SPDIP	
dsPIC33FJ64GP204	40	64	8192	0	8	125	35	44	2 13	12	1	1	4	0	2	2	1	0	No	0	0	4	0	0	Yes	0	Yes	PMP	44/QFN 44/TQFP	
dsPIC33FJ64GP206A	40	64	8192	0	8	125	53	64	0 18	12	1	0	0	0	2	2	2	1	No	0	0	8	0	0	Yes	0	No	GPIO	64/QFN 64/TQFP	
dsPIC33FJ64GP306A	40	64	16384	0	8	125	53	64	0 18	12	1	0	0	0	2	2	2	1	No	0	0	8	0	0	Yes	0	No	GPIO	64/QFN 64/TQFP	
dsPIC33FJ64GP310A	40	64	16384	0	8	125	85	100	0 32	12	1	0	0	0	2	2	2	1	No	0	0	8	0	0	Yes	0	No	GPIO	100/TQFP	
dsPIC33FJ64GP706A	40	64	16384	0	8	125	53	64	0 18	12	1	0	0	0	2	2	2	1	No	0	0	8	0	2	Yes	0	No	GPIO	64/QFN 64/TQFP	
dsPIC33FJ64GP708A	40	64	16384	0	8	125	69	80	0 24	12	1	0	0	0	2	2	2	1	No	0	0	8	0	2	Yes	0	No	GPIO	80/TQFP	
dsPIC33FJ64GP710A	40	64	16384	0	8	125	85	100	0 32	12	1	0	0	0	2	2	2	1	No	0	0	8	0	2	Yes	0	No	GPIO	100/TQFP	
dsPIC33FJ64GP802	40	64	16384	0	8	150	21	28	2 10	12	1	2	16	0	2	2	1	0	No	0	0	4	0	1	Yes	0	Yes	PMP	28/QFN-S 28/SOIC 28/SPDIP	
dsPIC33FJ64GP804	40	64	16384	0	8	125	35	44	2 13	12	1	2	16	0	2	2	1	0	No	0	0	4	0	1	Yes	0	Yes	PMP	44/QFN 44/TQFP	
dsPIC33FJ64MC202	40	64	8192	0	8	150	21	28	2 6	12	1	1	4	0	2	2	1	0	No	8	0	4	0	0	Yes	2	Yes	PMP	28/QFN-S 28/SOIC 28/SPDIP	
dsPIC33FJ64MC204	40	64	8192	0	8	150	35	44	2 9	12	1	1	4	0	2	2	1	0	No	8	0	4	0	0	Yes	2	Yes	PMP	44/QFN 44/TQFP	
dsPIC33FJ64MC506A	40	64	8192	0	8	150	53	64	0 16	12	1	0	0	0	2	2	2	0	No	8	0	8	0	1	Yes	1	No	GPIO	64/QFN 64/TQFP	
dsPIC33FJ64MC508A	40	64	8192	0	8	125	69	80	0 16	12	1	0	0	0	2	2	2	0	No	8	0	8	0	1	Yes	1	No	GPIO	80/TQFP	
dsPIC33FJ64MC510A	40	64	8192	0	8	125	85	100	0 24	12	1	0	0	0	2	2	2	0	No	8	0	8	0	1	Yes	1	No	GPIO	100/TQFP	
dsPIC33FJ64MC706A	40	64	16384	0	8	125	53	64	0 16	12	1	0	0	0	2	2	2	0	No	8	0	8	0	1	Yes	1	No	GPIO	64/QFN 64/TQFP	
dsPIC33FJ64MC710A	40	64	16384	0	8	125	85	100	0 24	12	1	0	0	0	2	2	2	0	No	8	0	8	0	2	Yes	1	No	GPIO	100/TQFP	
dsPIC33FJ64MC802	40	64	16384	0	8	150	21	28	2 6	12	1	1	4	0	2	2	1	0	No	8	0	4	0	1	Yes	2	Yes	PMP	28/QFN-S 28/SOIC 28/SPDIP	
dsPIC33FJ64MC804	40	64	16384	0	8	150	35	44	2 9	12	1	2	16	0	2	2	1	0	No	8	0	4	0	1	Yes	2	Yes	PMP	44/QFN 44/TQFP	
PIC24FJ16MC101	16	16	1024	0	0	125	15	20	3 4	10	1	1	4	0	1	1	1	0	Yes	6	0	3	0	0	Yes	0	Yes	GPIO	20/PDIP 20/SOIC 20/SSOP	
PIC24FJ16MC102	16	16	1024	0	0	125	21	28	3 6	10	1	1	4	0	1	1	1	0	Yes	6	0	3	0	0	Yes	0	Yes	GPIO	28/QFN 28/SOIC 28/SPDIP 28/SSOP	
PIC24FJ32MC101	16	32	2048	0	0	125	15	20	3 4	10	1	1	4	0	1	1	1	0	Yes	6	0	3	0	0	Yes	0	Yes	GPIO	20/PDIP 20/SOIC 20/SSOP	

16-bit Microcontrollers and DSCs																														
Product	CPU Speed (MIPS/DMIPS)	Program Memory Size (KB)	SRAM (Bytes)	Data EEPROM/HEF (Bytes)	Direct Memory Access Channels	Temp Range Max	Max I/O Pins	Pin count	Number of Comparators	ADC Input	Max ADC Resolution (Bits)	Max ADC Sample/Hold	Number of DACs	Max DAC Resolution (Bits)	Number of Op Amps	UART	SPI	I2C	I2S	Hardware RTCC/RTC	Motor Control PWM Outputs	SMPS PWM Outputs	Input Capture	Number of USB Modules	Number of CAN Modules	LIN	Quadrature Encoder Interface	Peripheral Pin Select / Pin Muxing	Parallel Port	Packages
PIC24FJ32MC102	16	32	2048	0	0	125	21	28	3	8	10	1	1	4	0	1	1	1	0	Yes	6	0	3	0	0	Yes	0	Yes	GPIO	28/QFN 28/SOIC 28/SPDIP 28/SSOP 28/VQFN 36/VTLA
PIC24FJ32MC104	16	32	2048	0	0	125	35	44	3	14	10	1	1	4	0	1	1	1	0	Yes	6	0	3	0	0	Yes	0	Yes	GPIO	44/QFN 44/TQFP
dsPIC33EP256MU806	70	256	28672	0	15	125	51	64	3	24	12	1	1	4	0	4	4	2	1	No	8	0	16	1	2	Yes	2	Yes	PMP	64/QFN 64/TQFP
dsPIC33EP256MU810	70	256	28672	0	15	125	83	100	3	32	12	1	1	4	0	4	4	2	1	No	12	0	16	1	2	Yes	2	Yes	PMP	100/TQFP 121/TFBGA
dsPIC33EP256MU814	70	256	28672	0	15	125	122	144	3	32	12	1	1	4	0	4	4	2	1	No	14	0	16	1	2	Yes	2	Yes	PMP	144/LQFP 144/TQFP
dsPIC33EP512GP806	70	512	53248	0	15	125	53	64	3	24	12	1	1	4	0	4	4	2	1	No	0	0	16	0	2	Yes	0	Yes	PMP	64/QFN 64/TQFP 80/CSP
dsPIC33EP512MC806	70	512	53248	0	15	125	53	64	3	24	12	1	1	4	0	4	4	2	1	No	8	0	16	0	2	Yes	2	Yes	PMP	64/QFN 64/TQFP
dsPIC33EP512MU810	70	512	53248	0	15	125	83	100	3	32	12	1	1	4	0	4	4	2	1	No	12	0	16	1	2	Yes	2	Yes	PMP	100/TQFP 121/TFBGA
dsPIC33EP512MU814	70	512	53248	0	15	125	122	144	3	32	12	1	1	4	0	4	4	2	1	No	14	0	16	1	2	Yes	2	Yes	PMP	144/LQFP 144/TQFP
dsPIC33CH256MP205	100	256	32768	0	6	150	39	48	4	34	12	4	4	12	0	3	3	3	3	No	24	24	12	0	0	Yes	2	Yes	PMP	48/TQFP
dsPIC33CH256MP206	100	256	32768	0	6	150	53	64	4	34	12	4	4	12	0	3	3	3	3	No	24	24	12	0	0	Yes	2	Yes	PMP	64/QFN 64/TQFP
dsPIC33CH256MP208	100	256	32768	0	6	150	69	80	4	34	12	4	4	12	0	3	3	3	3	No	24	24	12	0	0	Yes	2	Yes	PMP	80/TQFP
dsPIC33CH256MP505	100	256	32768	0	6	150	39	48	4	34	12	4	4	12	0	3	3	3	3	No	24	24	12	0	2	Yes	2	Yes	PMP	48/TQFP
dsPIC33CH256MP506	100	256	32768	0	6	150	53	64	4	34	12	4	4	12	0	3	3	3	3	No	24	24	12	0	2	Yes	2	Yes	PMP	64/QFN 64/TQFP
dsPIC33CH256MP508	100	256	32768	0	6	150	69	80	4	34	12	4	4	12	0	3	3	3	3	No	24	24	12	0	2	Yes	2	Yes	PMP	80/TQFP
dsPIC33CH512MP205	100	512	49152	0	6	150	39	48	4	34	12	4	4	12	0	3	3	3	3	No	24	24	12	0	0	Yes	2	Yes	PMP	48/TQFP
dsPIC33CH512MP206	100	512	49152	0	6	150	53	64	4	34	12	4	4	12	0	3	3	3	3	No	24	24	12	0	0	Yes	2	Yes	PMP	64/QFN 64/TQFP
dsPIC33CH512MP208	100	512	49152	0	6	150	69	80	4	34	12	4	4	12	0	3	3	3	3	No	24	24	12	0	0	Yes	2	Yes	PMP	80/TQFP
dsPIC33CH512MP505	100	512	49152	0	6	150	39	48	4	34	12	4	4	12	0	3	3	3	3	No	24	24	12	0	2	Yes	2	Yes	PMP	48/TQFP
dsPIC33CH512MP506	100	512	49152	0	6	150	53	64	4	34	12	4	4	12	0	3	3	3	3	No	24	24	12	0	2	Yes	2	Yes	PMP	64/QFN 64/TQFP
dsPIC33CH512MP508	100	512	49152	0	6	150	69	80	4	34	12	4	4	12	0	3	3	3	3	No	24	24	12	0	2	Yes	2	Yes	PMP	80/TQFP
dsPIC33EP16GS202	70	16	2048	0	0	125	21	28	2	12	12	1	2	12	0	1	1	1	0	No	0	6	1	0	0	No	0	Yes	No	28/QFN-S 28/SOIC 28/SSOP 28/SSOP 208mil 28/UQFN
dsPIC33EP16GS502	70	16	2048	0	0	125	21	28	4	12	12	1	4	12	0	2	2	2	0	No	0	10	4	0	0	No	0	Yes	No	28/QFN-S 28/SOIC 28/UQFN
dsPIC33EP16GS504	70	16	2048	0	0	125	35	44	4	19	12	1	4	12	0	2	2	2	0	No	0	10	4	0	0	No	0	Yes	No	44/QFN 44/TQFP
dsPIC33EP16GS505	70	16	4096	0	0	125	35	48	4	19	12	1	4	12	0	2	2	2	0	No	0	10	4	0	0	No	0	Yes	No	48/TQFP
dsPIC33EP16GS506	70	16	2048	0	0	125	53	64	4	22	12	1	4	12	0	2	2	2	0	No	0	10	4	0	0	No	0	Yes	No	64/TQFP
dsPIC33EP32GS202	70	32	2048	0	0	125	21	28	2	12	12	1	2	12	0	1	1	1	0	No	0	6	1	0	0	No	0	Yes	No	28/QFN-S 28/SOIC 28/SSOP 28/UQFN
dsPIC33EP32GS502	70	32	4096	0	0	125	21	28	4	12	12	1	4	12	0	2	2	2	0	No	0	10	4	0	0	No	0	Yes	No	28/QFN-S 28/SOIC 28/SOIC 300mil 28/UQFN
dsPIC33EP32GS504	70	32	4096	0	0	125	35	44	4	19	12	1	4	12	0	2	2	2	0	No	0	10	4	0	0	No	0	Yes	No	44/QFN 44/TQFP
dsPIC33EP32GS505	70	32	4096	0	0	125	35	48	4	19	12	1	4	12	0	2	2	2	0	No	0	10	4	0	0	No	0	Yes	No	48/TQFP
dsPIC33EP32GS506	70	32	4096	0	0	125	53	64	4	22	12	1	4	12	0	2	2	2	0	No	0	10	4	0	0	No	0	Yes	No	64/TQFP
dsPIC33EP64GS502	70	64	8192	0	0	125	21	28	4	12	12	1	4	12	0	2	2	2	0	No	0	10	4	0	0	No	0	Yes	No	28/QFN-S 28/SOIC 28/UQFN
dsPIC33EP64GS504	70	64	8192	0	0	125	35	44	4	19	12	1	4	12	0	2	2	2	0	No	0	10	4	0	0	No	0	Yes	No	44/QFN 44/TQFP
dsPIC33EP64GS505	70	64	8192	0	0	125	35	48	4	19	12	1	4	12	0	2	2	2	0	No	0	10	4	0	0	No	0	Yes	No	48/TQFP
dsPIC33EP64GS506	70	64	8192	0	0	125	53	64	4	22	12	1	4	12	0	2	2	2	0	No	0	10	4	0	0	No	0	Yes	No	64/TQFP
dsPIC33EP128GS702	70	128	8192	0	0	125	20	28	4	11	12	5	4	12	0	2	3	2	0	No	0	10	4	0	0	No	0	Yes	No	28/QFN-S 28/SOIC 28/UQFN
dsPIC33EP128GS704	70	128	8192	0	0	125	33	44	4	17	12	5	4	12	0	2	3	2	0	No	0	10	4	0	0	No	0	Yes	No	44/QFN 44/TQFP
dsPIC33EP128GS705	70	128	8192	0	0	125	33	48	4	17	12	5	4	12	0	2	3	2	0	No	0	10	4	0	0	No	0	Yes	No	48/TQFP
dsPIC33EP128GS706	70	128	8192	0	0	125	51	64	4	22	12	5	4	12	0	2	3	2	0	No	0	10	4	0	0	No	0	Yes	No	64/TQFP
dsPIC33EP128GS708	70	128	8192	0	0	125	67	80	4	22	12	5	4	12	0	2	3	2	0	No	0	10	4	0	0	No	0	Yes	No	80/TQFP
dsPIC33EP128GS804	70	128	8192	0	4	125	33	44	4	17	12	5	4	12	0	2	3	2	0	No	0	10	4	0	2	No	0	Yes	No	44/QFN 44/TQFP
dsPIC33EP128GS805	70	128	8192	0	4	125	33	48	4	17	12	5	4	12	0	2	3	2	0	No	0	10	4	0	2	No	0	Yes	No	48/TQFP
dsPIC33EP128GS806	70	128	8192	0	4	125	51	64	4	22	12	5	4	12	0	2	3	2	0	No	0	10	4	0	2	No	0	Yes	No	64/TQFP
dsPIC33EP128GS808	70	128	8192	0	4	125	67	80	4	22	12	5	4	12	0	2	3	2	0	No	0	10	4	0	2	No	0	Yes	No	80/TQFP

16-bit Microcontrollers and DSCs

Product	CPU Speed (MIPS/ DMIPS)	Program Memory Size (KB)	SRAM (Bytes)	Data EEPROM/HEF (Bytes)	Direct Memory Access Channels	Temp Range Max	Max I/O Pins	Pin count	Number of Comparators	ADC Input	Max ADC Resolution (Bits)	Max ADC Sample/Hold	Number of DACs	Max DAC Resolution (Bits)	Number of Op Amps	UART	SPI	I2C	I2S	Hardware RTCC/RTC	Motor Control PWM Outputs	SMPS PWM Outputs	Input Capture	Number of USB Modules	Number of CAN Modules	LIN	Quadrature Encoder Interface	Peripheral Pin Select / Pin Muxing	Parallel Port	Packages
dsPIC33EP64GS708	70	64	8192	0	0	125	67	80	4	22	12	5	4	12	0	2	3	2	0	No	0	10	4	0	0	No	0	Yes	No	80/TQFP
dsPIC33EP64GS804	70	64	8192	0	4	125	33	44	4	17	12	5	4	12	0	2	3	2	0	No	0	10	4	0	2	No	0	Yes	No	44/QFN 44/TQFP
dsPIC33EP64GS805	70	64	8192	0	4	125	33	48	4	17	12	5	4	12	0	2	3	2	0	No	0	10	4	0	2	No	0	Yes	No	48/TQFP
dsPIC33EP64GS806	70	64	8192	0	4	125	51	64	4	22	12	5	4	12	0	2	3	2	0	No	0	10	4	0	2	No	0	Yes	No	64/TQFP
dsPIC33EP64GS808	70	64	8192	0	4	125	67	80	4	22	12	5	4	12	0	2	3	2	0	No	0	10	4	0	2	No	0	Yes	No	80/TQFP
dsPIC33FJ32GS406	50	32	4096	0	0	125	53	64	0	16	10	1	0	0	0	2	2	2	0	No	12	12	4	0	0	Yes	1	No	GPIO	64/QFN 64/TQFP
dsPIC33FJ32GS606	50	32	4096	0	0	125	53	64	4	16	10	1	4	10	0	2	2	2	0	No	12	12	4	0	0	Yes	2	No	GPIO	64/QFN 64/TQFP
dsPIC33FJ32GS608	50	32	4096	0	0	125	69	80	4	18	10	1	4	10	0	2	2	2	0	No	16	16	4	0	0	Yes	2	No	GPIO	80/TQFP
dsPIC33FJ32GS610	50	32	4096	0	0	125	85	100	4	24	10	1	4	10	0	2	2	2	0	No	18	18	4	0	0	Yes	2	No	GPIO	100/TQFP
dsPIC33FJ64GS406	50	64	8192	0	0	125	53	64	0	16	10	1	0	0	0	2	2	2	0	No	12	12	4	0	0	Yes	1	No	GPIO	64/QFN 64/TQFP
dsPIC33FJ64GS606	50	64	9216	0	4	125	53	64	4	16	10	1	4	10	0	2	2	2	0	No	12	12	4	0	1	Yes	2	No	GPIO	64/QFN 64/TQFP
dsPIC33FJ64GS608	50	64	9216	0	4	125	69	80	4	18	10	1	4	10	0	2	2	2	0	No	16	16	4	0	1	Yes	2	No	GPIO	80/TQFP
dsPIC33FJ64GS610	50	64	9216	0	4	125	85	100	4	24	10	1	4	10	0	2	2	2	0	No	18	18	4	0	1	Yes	2	No	GPIO	100/TQFP
dsPIC33EV128GM002	70	128	8192	0	4	150	21	28	5	11	12	1	1	7	4	2	2	1	0	No	6	0	4	0	0	Yes	0	Yes	No	28/QFN-S 28/SOIC 28/SOIC 300mil 28/SPDIP 28/SSOP
dsPIC33EV128GM003	70	128	8192	0	4	150	25	36	5	13	12	1	1	7	4	2	2	1	0	No	6	0	4	0	0	Yes	0	Yes	No	36/UQFN
dsPIC33EV128GM004	70	128	8192	0	4	150	35	44	5	24	12	1	1	7	4	2	2	1	0	No	6	0	4	0	0	Yes	0	Yes	No	44/QFN 44/TQFP 48/TQFP
dsPIC33EV128GM006	70	128	8192	0	4	150	53	64	5	36	12	1	1	7	4	2	2	1	0	No	6	0	4	0	0	Yes	0	Yes	No	64/QFN 64/TQFP
dsPIC33EV128GM102	70	128	8192	0	4	150	21	28	4	11	12	1	1	7	3	2	2	1	0	No	6	0	4	0	1	Yes	0	Yes	No	28/QFN-S 28/SOIC 28/SOIC 300mil 28/SPDIP 28/SSOP
dsPIC33EV128GM103	70	128	8192	0	4	150	25	36	4	13	12	1	1	7	3	2	2	1	0	No	6	0	4	0	1	Yes	0	Yes	No	36/UQFN
dsPIC33EV128GM104	70	128	8192	0	4	150	35	44	5	24	12	1	1	7	4	2	2	1	0	No	6	0	4	0	1	Yes	0	Yes	No	44/QFN 44/TQFP 48/TQFP
dsPIC33EV128GM106	70	128	8192	0	4	150	53	64	5	36	12	1	1	7	4	2	2	1	0	No	6	0	4	0	1	Yes	0	Yes	No	64/QFN 64/TQFP
dsPIC33EV256GM002	70	256	16384	0	4	150	21	28	4	11	12	1	1	7	3	2	2	1	0	No	6	0	4	0	0	Yes	0	Yes	No	28/QFN-S 28/SOIC 28/SPDIP 28/SSOP
dsPIC33EV256GM003	70	256	16384	0	4	150	25	36	4	13	12	1	1	7	3	2	2	1	0	No	6	0	4	0	0	Yes	0	Yes	No	36/UQFN
dsPIC33EV256GM004	70	256	16384	0	4	150	35	44	5	24	12	1	1	7	4	2	2	1	0	No	6	0	4	0	0	Yes	0	Yes	No	44/QFN 44/TQFP 48/TQFP
dsPIC33EV256GM006	70	256	16384	0	4	150	53	64	5	36	12	1	1	7	4	2	2	1	0	No	6	0	4	0	0	Yes	0	Yes	No	64/QFN 64/TQFP
dsPIC33EV256GM102	70	256	16384	0	4	150	21	28	4	11	12	1	1	7	3	2	2	1	0	No	6	0	4	0	1	Yes	0	Yes	No	28/QFN-S 28/SOIC 28/SPDIP 28/SSOP 28/SSOP 208mil
dsPIC33EV256GM103	70	256	16384	0	4	150	25	36	4	13	12	1	1	7	3	2	2	1	0	No	6	0	4	0	1	Yes	0	Yes	No	36/UQFN
dsPIC33EV256GM104	70	256	16384	0	4	150	35	44	5	24	12	1	1	7	4	2	2	1	0	No	6	0	4	0	1	Yes	0	Yes	No	44/QFN 44/TQFP 48/TQFP
dsPIC33EV256GM106	70	256	16384	0	4	150	53	64	5	36	12	1	1	7	4	2	2	1	0	No	6	0	4	0	1	Yes	0	Yes	No	64/QFN 64/TQFP
dsPIC33EV32GM002	70	32	4096	0	4	150	21	28	4	11	12	1	1	7	3	2	2	1	0	No	6	0	4	0	0	Yes	0	Yes	No	28/QFN-S 28/SOIC 28/SPDIP 28/SSOP
dsPIC33EV32GM003	70	32	4096	0	4	150	25	36	4	13	12	1	1	7	3	2	2	1	0	No	6	0	4	0	0	Yes	0	Yes	No	36/UQFN
dsPIC33EV32GM004	70	32	4096	0	4	150	35	44	5	24	12	1	1	7	4	2	2	1	0	No	6	0	4	0	0	Yes	0	Yes	No	44/QFN 44/TQFP 48/TQFP
dsPIC33EV32GM006	70	32	4096	0	4	150	53	64	5	36	12	1	1	7	4	2	2	1	0	No	6	0	4	0	0	Yes	0	Yes	No	64/QFN 64/TQFP
dsPIC33EV32GM102	70	32	4096	0	4	150	21	28	4	11	12	1	1	7	3	2	2	1	0	No	6	0	4	0	1	Yes	0	Yes	No	28/QFN-S 28/SOIC 28/SOIC 300mil 28/SPDIP 28/SSOP
dsPIC33EV32GM103	70	32	4096	0	4	150	25	36	4	13	12	1	1	7	3	2	2	1	0	No	6	0	4	0	1	Yes	0	Yes	No	36/UQFN
dsPIC33EV32GM104	70	32	4096	0	4	150	35	44	5	24	12	1	1	7	4	2	2	1	0	No	6	0	4	0	1	Yes	0	Yes	No	44/QFN 44/TQFP 48/TQFP
dsPIC33EV32GM106	70	32	4096	0	4	150	53	64	5	36	12	1	1	7	4	2	2	1	0	No	6	0	4	0	1	Yes	0	Yes	No	64/QFN 64/TQFP
dsPIC33EV64GM002	70	64	4096	0	4	150	21	28	5	11	12	1	1	7	4	2	2	1	0	No	6	0	4	0	0	Yes	0	Yes	No	28/QFN-S 28/SOIC 28/SPDIP 28/SSOP
dsPIC33EV64GM003	70	64	4096	0	4	150	25	36	5	13	12	1	1	7	4	2	2	1	0	No	6	0	4	0	0	Yes	0	Yes	No	36/UQFN
dsPIC33EV64GM004	70	64	8192	0	4	150	35	44	5	24	12	1	1	7	4	2	2	1	0	No	6	0	4	0	0	Yes	0	Yes	No	44/QFN 44/TQFP 48/TQFP
dsPIC33EV64GM006	70	64	8192	0	4	150	53	64	5	36	12	1	1	7	4	2	2	1	0	No	6	0	4	0	0	Yes	0	Yes	No	64/QFN 64/TQFP
dsPIC33EV64GM102	70	64	8192	0	4	150	21	28	4	11	12	1	1	7	3	2	2	1	0	No	6	0	4	0	1	Yes	0	Yes	No	28/QFN-S 28/SOIC 28/SOIC 300mil 28/SPDIP 28/SSOP
dsPIC33EV64GM103	70	64	8192	0	4	150	25	36	4	13	12	1	1	7	3	2	2	1	0	No	6	0	4	0	1	Yes	0	Yes	No	36/UQFN

16-bit Microcontrollers and DSCs																														
Product	CPU Speed (MIPS/DMIPS)	Program Memory Size (KB)	SRAM (Bytes)	Data EEPROM/HEF (Bytes)	Direct Memory Access Channels	Temp Range Max	Max I/O Pins	Pin count	Number of Comparators	ADC Input	Max ADC Resolution (Bits)	Max ADC Sample/Hold	Number of DACs	Max DAC Resolution (Bits)	Number of Op Amps	UART	SPI	I2C	I2S	Hardware RTCC/RTC	Motor Control PWM Outputs	SMPS PWM Outputs	Input Capture	Number of USB Modules	Number of CAN Modules	LIN	Quadrature Encoder Interface	Peripheral Pin Select / Pin Muxing	Parallel Port	Packages
dsPIC33EV64GM104	70	64	8192	0	4	150	35	44	5 24	12	1	1	7	4	2	2	1	0	No	6	0	4	0	1	Yes	0	Yes	No	44/QFN 44/TQFP 48/TQFP	
dsPIC33EV64GM106	70	64	8192	0	4	150	53	64	5 36	12	1	1	7	4	2	2	1	0	No	6	0	4	0	1	Yes	0	Yes	No	64/QFN 64/TQFP	
dsPIC33EP128GM304	70	128	16384	0	4	125	35	44	5 18	12	1	2	4	4	4	3	2	1	No	12	0	8	0	0	Yes	2	Yes	GPIO	44/QFN 44/TQFP	
dsPIC33EP128GM306	70	128	16384	0	4	150	53	64	5 30	12	1	2	4	4	4	3	2	1	No	12	0	8	0	0	Yes	2	Yes	PMP	64/QFN 64/TQFP	
dsPIC33EP128GM310	70	128	16384	0	4	150	85	100	5 49	12	1	2	4	4	4	3	2	1	No	12	0	8	0	0	Yes	2	Yes	PMP	100/TQFP 121/TFBGA	
dsPIC33EP128GM604	70	128	16384	0	4	125	35	44	5 18	12	1	2	4	4	4	3	2	1	No	12	0	8	0	2	Yes	2	Yes	GPIO	44/QFN 44/TQFP	
dsPIC33EP128GM706	70	128	16384	0	4	150	53	64	5 30	12	1	2	4	4	4	3	2	1	No	12	0	8	0	2	Yes	2	Yes	PMP	64/QFN 64/TQFP	
dsPIC33EP128GM710	70	128	16384	0	4	150	85	100	5 49	12	1	2	4	4	4	3	2	1	No	12	0	8	0	2	Yes	2	Yes	PMP	100/TQFP 121/TFBGA	
dsPIC33EP128GP502	70	128	16384	0	4	125	21	28	3 6	12	4	1	4	2	2	2	2	0	No	0	0	4	0	1	Yes	0	Yes	GPIO	28/QFN-S 28/SOIC 28/SPDIP 28/SSOP	
dsPIC33EP128GP504	70	128	16384	0	4	150	35	44	4 9	12	4	1	4	3	2	2	2	0	No	0	0	4	0	1	Yes	0	Yes	GPIO	44/QFN 44/TQFP 44/VTLA 48/UQFN	
dsPIC33EP128GP506	70	128	16384	0	4	150	53	64	4 16	12	4	1	4	3	2	2	2	0	No	0	0	4	0	1	Yes	0	Yes	GPIO	64/QFN 64/TQFP	
dsPIC33EP128MC202	70	128	16384	0	4	125	21	28	3 6	12	1	1	4	2	2	2	2	0	No	6	0	4	0	0	Yes	1	Yes	GPIO	28/QFN-S 28/SOIC 28/SPDIP 28/SSOP	
dsPIC33EP128MC204	70	128	16384	0	4	150	35	44	4 9	12	1	1	4	3	2	2	2	0	No	6	0	4	0	0	Yes	1	Yes	GPIO	44/QFN 44/TQFP 44/VTLA 48/UQFN	
dsPIC33EP128MC206	70	128	16384	0	4	150	53	64	4 16	12	1	1	4	3	2	2	2	0	No	6	0	4	0	0	Yes	1	Yes	GPIO	64/QFN 64/TQFP	
dsPIC33EP128MC502	70	128	16384	0	4	85	21	28	3 6	12	1	1	4	2	2	2	2	0	No	6	0	4	0	1	Yes	1	Yes	GPIO	28/QFN-S 28/SOIC 28/SPDIP 28/SSOP	
dsPIC33EP128MC504	70	128	16384	0	4	150	35	44	4 9	12	1	1	4	3	2	2	2	0	No	6	0	4	0	1	Yes	1	Yes	GPIO	44/QFN 44/TQFP 44/VTLA 48/UQFN	
dsPIC33EP128MC506	70	128	16384	0	4	150	53	64	4 16	12	1	1	4	3	2	2	2	0	No	6	0	4	0	1	Yes	1	Yes	GPIO	64/QFN 64/TQFP	
dsPIC33EP256GM304	70	256	32768	0	4	125	35	44	5 18	12	1	2	4	4	4	3	2	1	No	12	0	8	0	0	Yes	2	Yes	GPIO	44/QFN 44/TQFP	
dsPIC33EP256GM306	70	256	32768	0	4	150	53	64	5 30	12	1	2	4	4	4	3	2	1	No	12	0	8	0	0	Yes	2	Yes	PMP	64/QFN 64/TQFP	
dsPIC33EP256GM310	70	256	32768	0	4	150	85	100	5 49	12	1	2	4	4	4	3	2	1	No	12	0	8	0	0	Yes	2	Yes	PMP	100/TQFP 121/TFBGA	
dsPIC33EP256GM604	70	256	32768	0	4	125	35	44	5 18	12	1	2	4	4	4	3	2	1	No	12	0	8	0	2	Yes	2	Yes	GPIO	44/QFN 44/TQFP	
dsPIC33EP256GM706	70	256	32768	0	4	150	53	64	5 30	12	1	2	4	4	4	3	2	1	No	12	0	8	0	2	Yes	2	Yes	PMP	64/QFN 64/TQFP	
dsPIC33EP256GM710	70	256	32768	0	4	150	85	100	5 49	12	1	2	4	4	4	3	2	1	No	12	0	8	0	2	Yes	2	Yes	PMP	100/TQFP 121/TFBGA	
dsPIC33EP256GP502	70	256	32768	0	4	125	21	28	3 6	12	4	1	4	2	2	2	2	0	No	0	0	4	0	1	Yes	0	Yes	GPIO	28/QFN-S 28/SOIC 28/SPDIP 28/SSOP	
dsPIC33EP256GP504	70	256	32768	0	4	150	35	44	4 9	12	4	1	4	3	2	2	2	0	No	0	0	4	0	1	Yes	0	Yes	GPIO	44/QFN 44/TQFP 44/VTLA 48/UQFN	
dsPIC33EP256GP506	70	256	32768	0	4	150	53	64	4 16	12	4	1	4	3	2	2	2	0	No	0	0	4	0	1	Yes	0	Yes	GPIO	64/QFN 64/TQFP	
dsPIC33EP256MC202	70	256	32768	0	4	125	21	28	3 6	12	1	1	4	2	2	2	2	0	No	6	0	4	0	0	Yes	1	Yes	GPIO	28/QFN-S 28/SOIC 28/SPDIP 28/SSOP	
dsPIC33EP256MC204	70	256	32768	0	4	150	35	44	4 9	12	1	1	4	3	2	2	2	0	No	6	0	4	0	0	Yes	1	Yes	GPIO	44/QFN 44/TQFP 44/VTLA 48/UQFN	
dsPIC33EP256MC206	70	256	32768	0	4	150	53	64	4 16	12	1	1	4	3	2	2	2	0	No	6	0	4	0	0	Yes	1	Yes	GPIO	64/QFN 64/TQFP	
dsPIC33EP256MC502	70	256	32768	0	4	125	21	28	3 6	12	1	1	4	2	2	2	2	0	No	6	0	4	0	1	Yes	1	Yes	GPIO	28/QFN-S 28/SOIC 28/SPDIP 28/SSOP 28/SSOP 208mil	
dsPIC33EP256MC504	70	256	32768	0	4	150	35	44	4 9	12	1	1	4	3	2	2	2	0	No	6	0	4	0	1	Yes	1	Yes	GPIO	44/QFN 44/TQFP 44/VTLA 48/UQFN	
dsPIC33EP256MC506	70	256	32768	0	4	150	53	64	4 16	12	1	1	4	3	2	2	2	0	No	6	0	4	0	1	Yes	1	Yes	GPIO	64/QFN 64/TQFP	
dsPIC33EP32GP502	70	32	4096	0	4	125	21	28	3 6	12	4	1	4	2	2	2	2	0	No	0	0	4	0	1	Yes	0	Yes	GPIO	28/QFN-S 28/SOIC 28/SPDIP 28/SSOP	
dsPIC33EP32GP503	70	32	4096	0	4	150	25	36	4 8	12	1	1	4	3	2	2	2	0	No	0	0	4	0	1	Yes	0	Yes	GPIO	36/UQFN 36/VTLA	
dsPIC33EP32GP504	70	32	4096	0	4	150	35	44	4 9	12	4	1	4	3	2	2	2	0	No	0	0	4	0	1	Yes	0	Yes	GPIO	44/QFN 44/TQFP 44/VTLA 48/UQFN	
dsPIC33EP32MC202	70	32	4096	0	4	150	21	28	3 6	12	1	1	4	2	2	2	2	0	No	6	0	4	0	0	Yes	1	Yes	GPIO	28/QFN-S 28/SOIC 28/SPDIP 28/SSOP	
dsPIC33EP32MC203	70	32	4096	0	4	125	25	36	4 8	12	1	1	4	3	2	2	2	0	No	6	0	4	0	0	Yes	1	Yes	GPIO	36/VTLA	
dsPIC33EP32MC204	70	32	4096	0	4	150	35	44	4 9	12	1	1	4	3	2	2	2	0	No	6	0	4	0	0	Yes	1	Yes	GPIO	44/QFN 44/TQFP 44/VTLA 48/UQFN	
dsPIC33EP32MC502	70	32	4096	0	4	125	21	28	3 6	12	1	1	4	2	2	2	2	0	No	6	0	4	0	1	Yes	1	Yes	GPIO	28/QFN-S 28/SOIC 28/SPDIP 28/SSOP	
dsPIC33EP32MC503	70	32	4096	0	4	150	25	36	4 8	12	1	1	4	3	2	2	2	0	No	6	0	4	0	1	Yes	1	Yes	GPIO	36/UQFN 36/VTLA	
dsPIC33EP32MC504	70	32	4096	0	4	150	35	44	4 9	12	1	1	4	3	2	2	2	0	No	6	0	4	0	1	Yes	1	Yes	GPIO	44/QFN 44/TQFP 44/VTLA 48/UQFN	
dsPIC33EP512GM304	70	512	49152	0	4	125	35	44	5 18	12	1	2	4	4	4	3	2	1	No	12	0	8	0	0	Yes	2	Yes	GPIO	44/QFN 44/TQFP	
dsPIC33EP512GM306	70	512	49152	0	4	150	53	64	5 30	12	1	2	4	4	4	3	2	1	No	12	0	8	0	0	Yes	2	Yes	PMP	64/QFN 64/TQFP	
dsPIC33EP512GM310	70	512	49152	0	4	150	85	100	5 49	12	1	2	4	4	4	3	2	1	No	12	0	8	0	0	Yes	2	Yes	PMP	100/TQFP 121/TFBGA	
dsPIC33EP512GM604	70	512	49152	0	4	125	35	44	5 18	12	1	2	4	4	4	3	2	1	No	12	0	8	0	2	Yes	2	Yes	GPIO	44/QFN 44/TQFP	
dsPIC33EP512GM706	70	512	49152	0	4	150	53	64	5 30	12	1	2	4	4	4	3	2	1	No	12	0	8	0	2	Yes	2	Yes	PMP	64/QFN 64/TQFP	

16-bit Microcontrollers and DSCs

Product	CPU Speed (MIPS/DMIPS)	Program Memory Size (KB)	SRAM (Bytes)	Data EEPROM/HEF (Bytes)	Direct Memory Access Channels	Temp Range Max	Max I/O Pins	Pin count	Number of Comparators	ADC Input	Max ADC Resolution (Bits)	Max ADC Sample/Hold	Number of DACs	Max DAC Resolution (Bits)	Number of Op Amps	UART	SPI	I2C	I2S	Hardware RTCC/RTC	Motor Control PWM Outputs	SMPs PWM Outputs	Input Capture	Number of USB Modules	Number of CAN Modules	LIN	Quadrature Encoder Interface	Peripheral Pin Select / Pin Muxing	Parallel Port	Packages
dsPIC33EP512GM710	70	512	49152	0	4	150	85	100	5	49	12	1	2	4	4	4	3	2	1	No	12	0	8	0	2	Yes	2	Yes	PMP	100/TQFP 121/TFBGA
dsPIC33EP512GP502	70	512	49152	0	4	150	21	28	3	6	12	4	1	4	2	2	2	2	0	No	0	0	4	0	1	Yes	0	Yes	GPIO	28/QFN-S 28/SOIC 28/SPDIP
dsPIC33EP512GP504	70	512	49152	0	4	150	35	44	4	9	12	4	1	4	3	2	2	2	0	No	0	0	4	0	1	Yes	0	Yes	GPIO	44/QFN 44/TQFP 44/VTLA 48/UQFN
dsPIC33EP512GP506	70	512	49152	0	4	150	53	64	4	16	12	4	1	4	3	2	2	2	0	No	0	0	4	0	1	Yes	0	Yes	GPIO	64/QFN 64/TQFP
dsPIC33EP512MC502	70	512	49152	0	4	150	21	28	3	6	12	1	1	4	2	2	2	2	0	No	6	0	4	0	1	Yes	1	Yes	GPIO	28/QFN-S 28/SOIC 28/SPDIP
dsPIC33EP512MC504	70	512	32768	0	4	150	35	44	4	9	12	1	1	4	3	2	2	2	0	No	6	0	4	0	1	Yes	1	Yes	GPIO	44/QFN 44/TQFP 44/VTLA 48/UQFN
dsPIC33EP512MC506	70	512	49152	0	4	150	53	64	4	16	12	1	1	4	3	2	2	2	0	No	6	0	4	0	1	Yes	1	Yes	GPIO	64/QFN 64/TQFP
dsPIC33EP64GP502	70	64	8192	0	4	150	21	28	3	6	12	4	1	4	2	2	2	2	0	No	0	0	4	0	1	Yes	0	Yes	GPIO	28/QFN-S 28/SOIC 28/SPDIP 28/SSOP 28/SSOP 208mil
dsPIC33EP64GP503	70	64	8192	0	4	150	25	36	4	8	12	1	1	4	3	2	2	2	0	No	0	0	4	0	1	Yes	0	Yes	GPIO	36/UQFN 36/VTLA
dsPIC33EP64GP504	70	64	8192	0	4	150	35	44	4	9	12	4	1	4	3	2	2	2	0	No	0	0	4	0	1	Yes	0	Yes	GPIO	44/QFN 44/TQFP 44/VTLA 48/UQFN
dsPIC33EP64GP506	70	64	8192	0	4	150	53	64	4	16	12	4	1	4	3	2	2	2	0	No	0	0	4	0	1	Yes	0	Yes	GPIO	64/QFN 64/TQFP
dsPIC33EP64MC202	70	64	8192	0	4	150	21	28	3	6	12	1	1	4	2	2	2	2	0	No	6	0	4	0	0	Yes	1	Yes	GPIO	28/QFN-S 28/SOIC 28/SPDIP 28/SSOP
dsPIC33EP64MC203	70	64	8192	0	4	150	25	36	4	8	12	1	1	4	3	2	2	2	0	No	6	0	4	0	0	Yes	1	Yes	GPIO	36/UQFN 36/VTLA
dsPIC33EP64MC204	70	64	8192	0	4	150	35	44	4	9	12	1	1	4	3	2	2	2	0	No	6	0	4	0	0	Yes	1	Yes	GPIO	44/QFN 44/TQFP 44/VTLA 48/UQFN
dsPIC33EP64MC206	70	64	8192	0	4	150	53	64	4	16	12	1	1	4	3	2	2	2	0	No	6	0	4	0	0	Yes	1	Yes	GPIO	64/QFN 64/TQFP
dsPIC33EP64MC502	70	64	8192	0	4	150	21	28	3	6	12	1	1	4	2	2	2	2	0	No	6	0	4	0	1	Yes	1	Yes	GPIO	28/QFN-S 28/SOIC 28/SPDIP 28/SSOP 28/SSOP 208mil
dsPIC33EP64MC503	70	64	8192	0	4	150	25	36	4	8	12	1	1	4	3	2	2	2	0	No	6	0	4	0	1	Yes	1	Yes	GPIO	36/UQFN 36/VTLA
dsPIC33EP64MC504	70	64	8192	0	4	150	35	44	4	9	12	1	1	4	3	2	2	2	0	No	6	0	4	0	1	Yes	1	Yes	GPIO	44/QFN 44/TQFP 44/VTLA 48/UQFN
dsPIC33EP64MC506	70	64	8192	0	4	150	53	64	4	16	12	1	1	4	3	2	2	2	0	No	6	0	4	0	1	Yes	1	Yes	GPIO	64/QFN 64/TQFP
dsPIC33CK128MP202	100	128	16384	0	4	150	21	28	3	12	12	3	3	12	2	3	3	3	3	No	8	8	9	0	0	Yes	2	Yes	No	28/SSOP 28/UQFN
dsPIC33CK128MP203	100	128	16384	0	4	150	29	36	3	16	12	3	3	12	3	3	3	3	3	No	12	12	9	0	0	Yes	2	Yes	No	36/UQFN
dsPIC33CK128MP205	100	128	16384	0	4	150	39	48	3	19	12	3	3	12	3	3	3	3	3	No	16	16	9	0	0	Yes	2	Yes	No	48/TQFP 48/UQFN
dsPIC33CK128MP206	100	128	16384	0	4	150	53	64	3	20	12	3	3	12	3	3	3	3	3	No	16	16	9	0	0	Yes	2	Yes	PMP	64/QFN 64/TQFP
dsPIC33CK128MP208	100	128	16384	0	4	150	69	80	3	24	12	3	3	12	3	3	3	3	3	No	16	16	9	0	0	Yes	2	Yes	PMP	80/TQFP
dsPIC33CK128MP502	100	128	16384	0	4	150	21	28	3	12	12	3	3	12	2	3	3	3	3	No	8	8	9	0	1	Yes	2	Yes	No	28/SSOP 28/UQFN
dsPIC33CK128MP503	100	128	16384	0	4	150	29	36	3	16	12	3	3	12	3	3	3	3	3	No	12	12	9	0	1	Yes	2	Yes	No	36/UQFN
dsPIC33CK128MP505	100	128	16384	0	4	150	39	48	3	19	12	3	3	12	3	3	3	3	3	No	16	16	9	0	1	Yes	2	Yes	No	48/TQFP 48/UQFN
dsPIC33CK128MP506	100	128	16384	0	4	150	53	64	3	20	12	3	3	12	3	3	3	3	3	No	16	16	9	0	1	Yes	2	Yes	PMP	64/QFN 64/TQFP
dsPIC33CK128MP508	100	128	16384	0	4	150	69	80	3	24	12	3	3	12	3	3	3	3	3	No	16	16	9	0	1	Yes	2	Yes	PMP	80/TQFP
dsPIC33CK256MP202	100	256	24576	0	4	150	21	28	3	12	12	3	3	12	2	3	3	3	3	No	8	8	9	0	1	Yes	2	Yes	No	28/SSOP 28/UQFN
dsPIC33CK256MP203	100	256	24576	0	4	150	29	36	3	16	12	3	3	12	3	3	3	3	3	No	12	12	9	0	0	Yes	2	Yes	No	36/UQFN
dsPIC33CK256MP205	100	256	24576	0	4	150	39	48	3	19	12	3	3	12	3	3	3	3	3	No	16	16	9	0	0	Yes	2	Yes	No	48/TQFP 48/UQFN
dsPIC33CK256MP206	100	256	24576	0	4	150	53	64	3	20	12	3	3	12	3	3	3	3	3	No	16	16	9	0	0	Yes	2	Yes	PMP	64/QFN 64/TQFP
dsPIC33CK256MP208	100	256	24576	0	4	150	69	80	3	24	12	3	3	12	3	3	3	3	3	No	16	16	9	0	0	Yes	2	Yes	PMP	80/TQFP
dsPIC33CK256MP502	100	256	24576	0	4	150	21	28	3	12	12	3	3	12	2	3	3	3	3	No	8	8	9	0	1	Yes	2	Yes	No	28/SSOP 28/UQFN
dsPIC33CK256MP503	100	256	24576	0	4	150	29	36	3	16	12	3	3	12	3	3	3	3	3	No	12	12	9	0	1	Yes	2	Yes	No	36/UQFN
dsPIC33CK256MP505	100	256	24576	0	4	150	39	48	3	19	12	3	3	12	3	3	3	3	3	No	16	16	9	0	1	Yes	2	Yes	No	48/TQFP 48/UQFN
dsPIC33CK256MP506	100	256	24576	0	4	150	53	64	3	20	12	3	3	12	3	3	3	3	3	No	16	16	9	0	1	Yes	2	Yes	PMP	64/QFN 64/TQFP
dsPIC33CK256MP508	100	256	24576	0	4	150	69	80	3	24	12	3	3	12	3	3	3	3	3	No	16	16	9	0	1	Yes	2	Yes	PMP	80/TQFP
dsPIC33CK32MP202	100	32	8192	0	4	150	21	28	3	12	12	3	3	12	2	3	3	3	3	No	8	8	9	0	0	Yes	2	Yes	No	28/SSOP 28/UQFN
dsPIC33CK32MP203	100	32	8192	0	4	150	29	36	3	16	12	3	3	12	3	3	3	3	3	No	12	12	9	0	0	Yes	2	Yes	No	36/UQFN
dsPIC33CK32MP205	100	32	8192	0	4	150	39	48	3	19	12	3	3	12	3	3	3	3	3	No	16	16	9	0	0	Yes	2	Yes	No	48/TQFP 48/UQFN
dsPIC33CK32MP206	100	32	8192	0	4	150	53	64	3	20	12	3	3	12	3	3	3	3	3	No	16	16	9	0	0	Yes	2	Yes	PMP	64/QFN 64/TQFP
dsPIC33CK32MP502	100	32	8192	0	4	150	21	28	3	12	12	3	3	12	2	3	3	3	3	No	8	8	9	0	1	Yes	2	Yes	No	28/SSOP 28/UQFN

16-bit Microcontrollers and DSCs																														
Product	CPU Speed (MIPS/DMIPS)	Program Memory Size (KB)	SRAM (Bytes)	Data EEPROM/HEF (Bytes)	Direct Memory Access Channels	Temp Range Max	Max I/O Pins	Pin count	Number of Comparators	ADC Input	Max ADC Resolution (Bits)	Max ADC Sample/Hold	Number of DACs	Max DAC Resolution (Bits)	Number of Op Amps	UART	SPI	I2C	I2S	Hardware RTCC/RTC	Motor Control PWM Outputs	SMPS PWM Outputs	Input Capture	Number of USB Modules	Number of CAN Modules	LIN	Quadrature Encoder Interface	Peripheral Pin Select / Pin Muxing	Parallel Port	Packages
dsPIC33CK32MP503	100	32	8192	0	4	150	29	36	3 16	12	3 3	12	3	3	3	3	3	3	No	12	12	9	0	1	Yes	2	Yes	No	36/UQFN	
dsPIC33CK32MP505	100	32	8192	0	4	150	39	48	3 19	12	3 3	12	3	3	3	3	3	3	No	16	16	9	0	1	Yes	2	Yes	No	48/TQFP 48/UQFN	
dsPIC33CK32MP506	100	32	8192	0	4	150	53	64	3 20	12	3 3	12	3	3	3	3	3	3	No	16	16	9	0	1	Yes	2	Yes	PMP	64/QFN 64/TQFP	
dsPIC33CK64MP202	100	64	8192	0	4	150	21	28	3 12	12	3 3	12	2	3	3	3	3	3	No	8	8	9	0	0	Yes	2	Yes	No	28/SSOP 28/UQFN	
dsPIC33CK64MP203	100	64	8192	0	4	150	29	36	3 16	12	3 3	12	3	3	3	3	3	3	No	12	12	9	0	0	Yes	2	Yes	No	36/UQFN	
dsPIC33CK64MP205	100	64	8192	0	4	150	39	48	3 19	12	3 3	12	3	3	3	3	3	3	No	16	16	9	0	0	Yes	2	Yes	No	48/TQFP 48/UQFN	
dsPIC33CK64MP206	100	64	8192	0	4	150	53	64	3 20	12	3 3	12	3	3	3	3	3	3	No	16	16	9	0	0	Yes	2	Yes	PMP	64/QFN 64/TQFP	
dsPIC33CK64MP208	100	64	8192	0	4	150	69	80	3 24	12	3 3	12	3	3	3	3	3	3	No	16	16	9	0	0	Yes	2	Yes	PMP	80/TQFP	
dsPIC33CK64MP502	100	64	8192	0	4	150	21	28	3 12	12	3 3	12	2	3	3	3	3	3	No	8	8	9	0	1	Yes	2	Yes	No	28/SSOP 28/UQFN	
dsPIC33CK64MP503	100	64	8192	0	4	150	29	36	3 16	12	3 3	12	3	3	3	3	3	3	No	12	12	9	0	1	Yes	2	Yes	No	36/UQFN	
dsPIC33CK64MP505	100	64	8192	0	4	150	39	48	3 19	12	3 3	12	3	3	3	3	3	3	No	16	16	9	0	1	Yes	2	Yes	No	48/TQFP 48/UQFN	
dsPIC33CK64MP506	100	64	8192	0	4	150	53	64	3 20	12	3 3	12	3	3	3	3	3	3	No	16	16	9	0	1	Yes	2	Yes	PMP	64/QFN 64/TQFP	
dsPIC33CK64MP508	100	64	8192	0	4	150	69	80	3 24	12	3 3	12	3	3	3	3	3	3	No	16	16	9	0	1	Yes	2	Yes	PMP	80/TQFP	
dsPIC33CK32MP102	100	32	8192	0	4	150	16	28	3 12	12	3 3	12	2	3	3	3	3	3	No	8	8	0	0	0	Yes	2	Yes	PMP	28/SSOP 28/UQFN	
dsPIC33CK32MP103	100	32	8192	0	4	150	16	36	3 16	12	3 3	12	3	3	3	3	3	3	No	8	8	0	0	0	Yes	2	Yes	PMP	36/UQFN	
dsPIC33CK32MP105	100	32	8192	0	4	150	16	48	3 19	12	3 3	12	3	3	3	3	3	3	No	8	8	0	0	0	Yes	2	Yes	PMP	48/TQFP 48/UQFN	
dsPIC33CK64MP102	100	64	8192	0	4	150	16	28	3 12	12	3 3	12	2	3	3	3	3	3	No	8	8	0	0	0	Yes	2	Yes	PMP	28/SSOP 28/UQFN	
dsPIC33CK64MP103	100	64	8192	0	4	150	16	36	3 16	12	3 3	12	3	3	3	3	3	3	No	8	8	0	0	0	Yes	2	Yes	PMP	36/UQFN	
dsPIC33CK64MP105	100	64	8192	0	4	150	16	48	3 19	12	3 3	12	3	3	3	3	3	3	No	8	8	0	0	0	Yes	2	Yes	PMP	48/TQFP 48/UQFN	

32-bit Microcontrollers

Product	Max CPU Speed (MHz)	Program Memory Size (KB)	RAM (KB)	Data EEPROM/HEF (Bytes)	Auxiliary Flash (KB)	Temperature Range	Operation Voltage Range (V)	Direct Memory Access Channels	ADC Input	Max ADC Resolution (Bits)	Number of DACs	USB Interface	Number of Comparators	Capture/Compare/PWM Peripherals	Motor Control PWM Outputs	UART/SPI/I ² C	I ² S	Crypto Engine	Hardware Touch Peripheral	Number of CAN Modules	Type of CAN module	Ethernet	Pin count	Packages
ATSAMD21E15	48	32	4	0	0	-40 to +85	1.62-3.63	12	10	12	0	None	2	6-Std. PWM, 16-bit PWM resolutions, 6-Input Capture	12	4-UART, 4-SPI, 4-I ² C	1	No	PTC	0	None	None	32	32/TQFP 32/VQFN
ATSAMD21G15	48	32	4	0	0	-40 to +85	1.62-3.63	12	14	12	0	None	2	6-Std. PWM, 0-bit PWM resolutions, 6-Input Capture	14	6-UART, 6-SPI, 6-I ² C	1	No	PTC	0	None	None	48	48/TQFP 48/VQFN
ATSAMD21J15	48	32	4	0	0	-40 to +85	1.62-3.63	12	20	12	0	None	2	10-Std. PWM, 16-bit PWM resolutions, 8-Input Capture	14	6-UART, 6-SPI, 6-I ² C	1	No	PTC	0	None	None	64	64/TQFP 64/VQFN
ATSAMDA1E15B	48	32	4	512	0	-40 to +105	2.7-3.63	12	10	12	1	Host, Device	2	0-Std. PWM, 0-bit PWM resolutions, 6-Input Capture	6	4-UART, 4-SPI, 4-I ² C	1	No	PTC	0	None	None	32	32/TQFP 32/VQFN
ATSAMDA1G15B	48	32	4	1024	0	-40 to +105	2.7-3.63	12	14	12	1	Host, Device	2	0-Std. PWM, 0-bit PWM resolutions, 6-Input Capture	6	6-UART, 6-SPI, 6-I ² C	1	No	PTC	0	None	None	48	48/TQFP 48/VQFN
ATSAMDA1J15B	48	32	4	2048	0	-40 to +105	2.7-3.63	12	20	12	1	Host, Device	2	0-Std. PWM, 0-bit PWM resolutions, 8-Input Capture	6	6-UART, 6-SPI, 6-I ² C	1	No	PTC	0	None	None	64	64/TQFP
ATSAMC20E15A	48	32	4	0	1	-40 to +105	2.7-5.5	6	10	12	0	None	2	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	12	4-UART, 4-SPI, 4-I ² C	0	No	PTC	0	None	None	32	32/TQFP 32/VQFN
ATSAMC20G15A	48	32	4	0	1	-40 to +85	2.7-5.5	6	12	12	0	None	2	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	14	4-UART, 4-SPI, 4-I ² C	0	No	PTC	0	None	None	48	48/TQFP 48/VQFN
ATSAMC20J15A	48	32	4	0	1	-40 to +85	2.7-5.5	6	12	12	0	None	2	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	14	4-UART, 4-SPI, 4-I ² C	0	No	PTC	0	None	None	64	64/TQFP 64/VQFN
ATSAMC21E15A	48	32	4	0	1	-40 to +85	2.7-5.5	6	10	12	0	None	3	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	14	4-UART, 4-SPI, 4-I ² C	0	No	PTC	1	CAN-FD	None	32	32/TQFP 32/VQFN
ATSAMC21G15A	48	32	4	0	1	-40 to +85	2.7-5.5	6	12	12	0	None	4	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	14	6-UART, 6-SPI, 6-I ² C	0	No	PTC	2	CAN-FD	None	48	48/TQFP 48/VQFN
ATSAMC21J15A	48	32	4	0	1	-40 to +85	2.7-5.5	6	12	12	0	None	4	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	14	6-UART, 6-SPI, 6-I ² C	0	No	PTC	2	CAN-FD	None	64	64/TQFP 64/VQFN
ATSAMC20J16A	48	64	8	0	0	-40 to +85	2.7-5.5	6	12	12	0	None	2	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	14	4-UART, 4-SPI, 4-I ² C	0	No	PTC	0	None	None	64	64/TQFP 64/VQFN
ATSAMDA1E16	48	64	8	0	0	-40 to +85	1.62-3.63	12	10	12	0	None	2	6-Std. PWM, 16-bit PWM resolutions, 6-Input Capture	12	4-UART, 4-SPI, 4-I ² C	1	No	PTC	0	None	None	32	32/TQFP 32/VQFN
ATSAMD21G16	48	64	8	0	0	-40 to +85	1.62-3.63	12	14	12	0	None	2	6-Std. PWM, 16-bit PWM resolutions, 6-Input Capture	14	6-UART, 6-SPI, 6-I ² C	1	No	PTC	0	None	None	48	48/TQFP 48/VQFN
ATSAMD21J16	48	64	8	0	0	-40 to +85	1.62-3.63	12	20	12	0	None	2	10-Std. PWM, 16-bit PWM resolutions, 8-Input Capture	14	6-UART, 6-SPI, 6-I ² C	1	No	PTC	0	None	None	64	64/TQFP 64/VQFN
ATSAMDA1E16A	48	64	8	512	0	-40 to +105	2.7-3.63	12	10	12	1	Host, Device	2	0-Std. PWM, 0-bit PWM resolutions, 6-Input Capture	6	4-UART, 4-SPI, 4-I ² C	1	No	PTC	0	None	None	32	32/TQFP 32/VQFN
ATSAMDA1E16B	48	64	8	512	0	-40 to +105	2.7-3.63	12	10	12	1	Host, Device	2	0-Std. PWM, 0-bit PWM resolutions, 6-Input Capture	6	4-UART, 4-SPI, 4-I ² C	1	No	PTC	0	None	None	32	32/TQFP 32/VQFN
ATSAMDA1G16B	48	64	8	1024	0	-40 to +105	2.7-3.63	12	14	12	1	Host, Device	2	0-Std. PWM, 0-bit PWM resolutions, 6-Input Capture	6	6-UART, 6-SPI, 6-I ² C	1	No	PTC	0	None	None	48	48/TQFP 48/VQFN
ATSAMDA1J16B	48	64	8	2048	0	-40 to +105	2.7-3.63	12	20	12	1	Host, Device	2	0-Std. PWM, 0-bit PWM resolutions, 8-Input Capture	6	6-UART, 6-SPI, 6-I ² C	1	No	PTC	0	None	None	64	64/TQFP
ATSAMC20E16A	48	64	8	0	2	-40 to +105	2.7-5.5	6	10	12	0	None	2	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	12	4-UART, 4-SPI, 4-I ² C	0	No	PTC	0	None	None	32	32/TQFP 32/VQFN
ATSAMC20G16A	48	64	8	0	2	-40 to +85	2.7-5.5	6	12	12	0	None	2	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	14	4-UART, 4-SPI, 4-I ² C	0	No	PTC	0	None	None	48	48/TQFP 48/VQFN
ATSAMC21E16A	48	64	8	0	2	-40 to +85	2.7-5.5	6	10	12	0	None	3	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	14	4-UART, 4-SPI, 4-I ² C	0	No	PTC	1	CAN-FD	None	32	32/TQFP 32/VQFN
ATSAMC21G16A	48	64	8	0	2	-40 to +85	2.7-5.5	6	12	12	0	None	4	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	14	6-UART, 6-SPI, 6-I ² C	0	No	PTC	2	CAN-FD	None	48	48/TQFP 48/VQFN 64/VQFN
ATSAMC21J16A	48	64	8	0	2	-40 to +85	2.7-5.5	6	12	12	0	None	4	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	14	6-UART, 6-SPI, 6-I ² C	0	No	PTC	2	CAN-FD	None	64	64/TQFP 64/VQFN
ATSAMD21E17	48	128	16	0	0	-40 to +85	1.62-3.63	12	10	12	0	None	2	6-Std. PWM, 16-bit PWM resolutions, 6-Input Capture	18	4-UART, 4-SPI, 4-I ² C	1	No	PTC	0	None	None	32	32/TQFP 32/VQFN
ATSAMD21G17	48	128	16	0	0	-40 to +85	1.62-3.63	12	14	12	0	None	2	6-Std. PWM, 16-bit PWM resolutions, 6-Input Capture	22	6-UART, 6-SPI, 6-I ² C	1	No	PTC	0	None	None	48	48/TQFP 48/VQFN
ATSAMD21J17	48	128	16	0	0	-40 to +85	1.62-3.63	12	20	12	0	None	2	10-Std. PWM, 16-bit PWM resolutions, 8-Input Capture	14	6-UART, 6-SPI, 6-I ² C	1	No	PTC	0	None	None	64	64/TQFP 64/UFPGA 64/VQFN
ATSAMC20E17A	48	128	16	0	4	-40 to +85	2.7-5.5	6	10	12	0	None	2	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	12	4-UART, 4-SPI, 4-I ² C	0	No	PTC	0	None	None	32	32/TQFP 32/VQFN
ATSAMC20G17A	48	128	16	0	4	-40 to +85	2.7-5.5	6	12	12	0	None	2	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	14	4-UART, 4-SPI, 4-I ² C	0	No	PTC	0	None	None	48	48/TQFP 48/VQFN
ATSAMC20J17A	48	128	16	0	4	-40 to +85	2.7-5.5	6	12	12	0	None	2	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	14	4-UART, 4-SPI, 4-I ² C	0	No	PTC	0	None	None	64	56/WLCSP 64/TQFP 64/VQFN
ATSAMC21E17A	48	128	16	0	4	-40 to +85	2.7-5.5	6	10	12	0	None	3	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	14	4-UART, 4-SPI, 4-I ² C	0	No	PTC	1	CAN-FD	None	32	32/TQFP 32/VQFN
ATSAMC21G17A	48	128	16	0	4	-40 to +85	2.7-5.5	6	12	12	0	None	4	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	14	6-UART, 6-SPI, 6-I ² C	0	No	PTC	2	CAN-FD	None	48	48/TQFP 48/VQFN
ATSAMC21J17A	48	128	16	0	4	-40 to +85	2.7-5.5	6	12	12	0	None	4	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	14	6-UART, 6-SPI, 6-I ² C	0	No	PTC	2	CAN-FD	None	64	56/WLCSP 64/TQFP 64/VQFN
ATSAMD21E18	48	256	32	0	0	-40 to +85	1.62-3.63	12	10	12	0	None	2	6-Std. PWM, 16-bit PWM resolutions, 6-Input Capture	12	4-UART, 4-SPI, 4-I ² C	1	No	PTC	0	None	None	32	32/TQFP 32/VQFN
ATSAMD21G18	48	256	32	0	0	-40 to +85	1.62-3.63	12	14	12	0	None	2	6-Std. PWM, 16-bit PWM resolutions, 6-Input Capture	14	6-UART, 6-SPI, 6-I ² C	1	No	PTC	0	None	None	48	48/TQFP 48/VQFN
ATSAMD21J18	48	256	32	0	0	-40 to +85	1.62-3.63	12	20	12	0	None	2	10-Std. PWM, 16-bit PWM resolutions, 8-Input Capture	14	6-UART, 6-SPI, 6-I ² C	1	No	PTC	0	None	None	64	64/TQFP 64/VQFN
PIC32MM0256GPM028	25	256	32	0	0	-40 to +85	2-3.6	4	12	12	1	FS Device/ Host/OTG	3	0-Std. PWM, 16-bit PWM resolutions, 0-Input Capture	0	3-UART, 3-SPI, 3-I ² C	3	No		0	None	None	28	28/QFN 28/SSOP 208mil 28/UQFN
ATSAMC20E18A	48	256	32	0	8	-40 to +105	2.7-5.5	6	10	12	0	None	2	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	12	4-UART, 4-SPI, 4-I ² C	0	No	PTC	0	CAN-FD	None	32	32/TQFP 32/VQFN
ATSAMC20G18A	48	256	32	0	8	-40 to +85	2.7-5.5	6	12	12	0	None	2	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	14	4-UART, 4-SPI, 4-I ² C	0	No	PTC	0	None	None	48	48/TQFP 48/VQFN
ATSAMC20J18A	48	256	32	0	8	-40 to +85	2.7-5.5	6	12	12	0	None	2	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	14	4-UART, 4-SPI, 4-I ² C	0	No	PTC	0	None	None	64	56/WLCSP 64/TQFP 64/VQFN

32-bit Microcontrollers																								
Product	Max CPU Speed (MHz)	Program Memory Size (KB)	RAM (KB)	Data EEPROM/HEF (Bytes)	Auxiliary Flash (KB)	Temperature Range	Operation Voltage Range (V)	Direct Memory Access Channels	ADC Input	Max ADC Resolution (Bits)	Number of DACs	USB Interface	Number of Comparators	Capture/Compare/PWM Peripherals	Motor Control PWM Outputs	UART/SPI/I2C	I2S	Crypto Engine	Hardware Touch Peripheral	Number of CAN Modules	Type of CAN module	Ethernet	Pin count	Packages
ATSAMC21E18A	48	256	32	0	8	-40 to +85	2.7-5.5	6	10	12	0	None	3	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	14	4-UART, 4-SPI, 4-I2C	0	No	PTC	1	CAN-FD	None	32	32/TQFP 32/VQFN
ATSAMC21G18A	48	256	32	0	8	-40 to +85	2.7-5.5	6	12	12	0	None	4	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	14	6-UART, 6-SPI, 6-I2C	0	No	PTC	2	CAN-FD	None	48	48/TQFP 48/VQFN
ATSAMC21J18A	48	256	32	0	8	-40 to +85	2.7-5.5	6	12	12	0	None	4	10-Std. PWM, 32-bit PWM resolutions, 10-Input Capture	14	6-UART, 6-SPI, 6-I2C	0	No	PTC	2	CAN-FD	None	64	56/WLCSP 64/TQFP 64/VQFN
PIC32MZ0512EFE064	200	512	128	0	160	-40 to +125	2.2-3.6	8	24	12	0	None	2	9-Std. PWM, 32-bit PWM resolutions, 9-Input Capture	0	6-UART, 4-SPI, 4-I2C	4	No		0	None	10/100 Base-TX Mac	64	64/QFN 64/TQFP
PIC32MZ0512EFE100	200	512	128	0	160	-40 to +125	2.2-3.6	8	40	12	0	None	2	9-Std. PWM, 32-bit PWM resolutions, 9-Input Capture	0	6-UART, 6-SPI, 5-I2C	6	No		0	None	10/100 Base-TX Mac	100	100/QFN 100/TQFP
PIC32MZ0512EFE124	200	512	128	0	160	-40 to +125	2.2-3.6	8	48	12	0	None	2	9-Std. PWM, 32-bit PWM resolutions, 9-Input Capture	0	6-UART, 6-SPI, 5-I2C	6	No		0	None	10/100 Base-TX Mac	124	124/VTLA
PIC32MZ0512EFE144	200	512	128	0	160	-40 to +125	2.2-3.6	8	48	12	0	None	2	9-Std. PWM, 32-bit PWM resolutions, 9-Input Capture	0	6-UART, 6-SPI, 5-I2C	6	No		0	None	10/100 Base-TX Mac	144	144/LQFP 144/TFBGA 144/TQFP
PIC32MZ0512EFF064	200	512	128	0	160	-40 to +125	2.2-3.6	8	24	12	0	None	2	9-Std. PWM, 32-bit PWM resolutions, 9-Input Capture	0	6-UART, 4-SPI, 4-I2C	4	No		2	CAN	10/100 Base-TX Mac	64	64/QFN 64/TQFP
PIC32MZ0512EFF124	200	512	128	0	160	-40 to +125	2.2-3.6	8	48	12	0	None	2	9-Std. PWM, 32-bit PWM resolutions, 9-Input Capture	0	6-UART, 6-SPI, 5-I2C	6	No		2	CAN	10/100 Base-TX Mac	124	124/VTLA
PIC32MZ0512EFF144	200	512	128	0	160	-40 to +125	2.2-3.6	15	48	12	0	None	2	9-Std. PWM, 32-bit PWM resolutions, 9-Input Capture	0	6-UART, 6-SPI, 5-I2C	6	No		2	CAN	10/100 Base-TX Mac	144	144/LQFP 144/TFBGA 144/TQFP
PIC32MZ0512EFK064	200	512	128	0	160	-40 to +125	2.2-3.6	8	24	12	0	None	2	9-Std. PWM, 32-bit PWM resolutions, 9-Input Capture	0	6-UART, 4-SPI, 4-I2C	4	Yes		2	CAN	10/100 Base-TX Mac	64	64/QFN 64/TQFP
PIC32MZ0512EFK100	200	512	128	0	160	-40 to +125	2.2-3.6	8	40	12	0	None	2	9-Std. PWM, 32-bit PWM resolutions, 9-Input Capture	0	6-UART, 6-SPI, 5-I2C	6	Yes		2	CAN	10/100 Base-TX Mac	100	100/QFN 100/TQFP
PIC32MZ0512EFK124	200	512	128	0	160	-40 to +125	2.2-3.6	8	48	12	0	None	2	9-Std. PWM, 32-bit PWM resolutions, 9-Input Capture	0	6-UART, 6-SPI, 5-I2C	6	Yes		2	CAN	10/100 Base-TX Mac	124	124/VTLA
PIC32MZ0512EFK144	200	512	128	0	160	-40 to +125	2.2-3.6	8	48	12	0	None	2	9-Std. PWM, 32-bit PWM resolutions, 9-Input Capture	0	6-UART, 6-SPI, 5-I2C	6	Yes		2	CAN	10/100 Base-TX Mac	144	144/LQFP 144/TFBGA 144/TQFP
ATSAMV70N19	300	512	256	0	1	-40 to +105	1.62-3.6	24	10	12	1	High Speed	1	8-Std. PWM, 0-bit PWM resolutions, 8-Input Capture	16	8-UART, 4-SPI, 3-I2C	1	Yes		2	CAN-FD	None	100	100/LQFP 100/TFBGA
ATSAMV70Q19	300	512	256	0	1	-40 to +105	1.62-3.6	24	24	12	1	High Speed	1	24-Std. PWM, 0-bit PWM resolutions, 24-Input Capture	16	8-UART, 5-SPI, 3-I2C	1	Yes		2	CAN-FD	None	144	144/LQFP 144/TFBGA
ATSAMV71J19	300	512	256	0	1	-40 to +105	1.62-3.6	24	5	12	1	High Speed	1	3-Std. PWM, 0-bit PWM resolutions, 3-Input Capture	15	5-UART, 1-SPI, 2-I2C	1	Yes		1	CAN-FD	Ethernet AVB	64	Please call for package information
ATSAMV71N19	300	512	256	0	1	-40 to +105	1.62-3.6	24	10	12	1	High Speed	1	8-Std. PWM 0-bit PWM resolutions 8-Input Capture	16	8-UART 4-SPI 3-I2C	1	Yes		2	CAN-FD	Ethernet AVB	100	100/LQFP 100/TFBGA
ATSAMV71Q19	300	512	256	0	1	-40 to +105	1.62-3.6	24	24	12	1	High Speed	1	24-Std. PWM 0-bit PWM resolutions 24-Input Capture	16	8-UART 5-SPI 3-I2C	1	Yes		2	CAN-FD	Ethernet AVB	144	144/LQFP 144/TFBGA
PIC32MZ1024EFE064	200	1024	256	0	160	-40 to +125	2.2-3.6	8	24	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 4-SPI 4-I2C	4	No		0	None	10/100 Base-TX Mac	64	64/QFN 64/TQFP
PIC32MZ1024EFE100	200	1024	256	0	160	-40 to +125	2.2-3.6	8	40	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I2C	6	No		0	None	10/100 Base-TX Mac	100	100/QFN 100/TQFP
PIC32MZ1024EFE124	200	1024	256	0	160	-40 to +125	2.2-3.6	8	48	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I2C	6	No		0	None	10/100 Base-TX Mac	124	124/VTLA
PIC32MZ1024EFE144	200	1024	256	0	160	-40 to +125	2.2-3.6	8	48	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I2C	6	No		0	None	10/100 Base-TX Mac	144	144/LQFP 144/TFBGA 144/TQFP
PIC32MZ1024EFF064	200	1024	256	0	160	-40 to +125	2.2-3.6	8	24	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 4-SPI 4-I2C	4	No		2	CAN	10/100 Base-TX Mac	64	64/QFN 64/TQFP
PIC32MZ1024EFF100	200	1024	256	0	160	-40 to +125	2.2-3.6	8	40	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I2C	6	No		2	CAN	10/100 Base-TX Mac	100	100/QFN 100/TQFP
PIC32MZ1024EFF124	200	1024	256	0	160	-40 to +125	2.2-3.6	8	48	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I2C	6	No		2	CAN	10/100 Base-TX Mac	124	124/VTLA

32-bit Microcontrollers

Product	Max CPU Speed (MHz)	Program Memory Size (KB)	RAM (KB)	Data EEPROM/HEF (Bytes)	Auxiliary Flash (KB)	Temperature Range	Operation Voltage Range (V)	Direct Memory Access Channels	ADC Input	Max ADC Resolution (Bits)	Number of DACs	USB Interface	Number of Comparators	Capture/Compare/PWM Peripherals	Motor Control PWM Outputs	UART/SPI/I ² C	I ² S	Crypto Engine	Hardware Touch Peripheral	Number of CAN Modules	Type of CAN module	Ethernet	Pin count	Packages
PIC32MZ1024EFF144	200	1024	256	0	160	-40 to +125	2.2-3.6	15	48	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I ² C	6	No		2	CAN	10/100 Base-TX Mac	144	144/LQFP 144/TFBGA 144/TQFP
PIC32MZ1024EFK064	200	1024	256	0	160	-40 to +125	2.2-3.6	8	24	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 4-SPI 4-I ² C	4	Yes		2	CAN	10/100 Base-TX Mac	64	64/QFN 64/TQFP
PIC32MZ1024EFK100	200	1024	256	0	160	-40 to +125	2.2-3.6	8	40	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I ² C	6	Yes		2	CAN	10/100 Base-TX Mac	100	100/QFN 100/TQFP
PIC32MZ1024EFK124	200	1024	256	0	160	-40 to +125	2.2-3.6	8	48	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I ² C	6	Yes		2	CAN	10/100 Base-TX Mac	124	124/VTLA
PIC32MZ1024EFK144	200	1024	256	0	160	-40 to +125	2.2-3.6	8	48	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I ² C	6	Yes		2	CAN	10/100 Base-TX Mac	144	144/LQFP 144/TFBGA 144/TQFP
ATSAMV70N20	300	1024	384	0	1	-40 to +105	1.62-3.6	24	10	12	1	High Speed	1	8-Std. PWM 0-bit PWM resolutions 8-Input Capture	16	8-UART 4-SPI 3-I ² C	1	Yes		2	CAN-FD	None	100	100/LQFP 100/TFBGA
ATSAMV70Q20	300	1024	384	0	1	-40 to +105	1.62-3.6	24	24	12	1	High Speed	1	24-Std. PWM 0-bit PWM resolutions 24-Input Capture	16	8-UART 5-SPI 3-I ² C	1	Yes		2	CAN-FD	None	144	144/LQFP 144/TFBGA
ATSAMV71J20	300	1024	384	0	1	-40 to +105	1.62-3.6	24	5	12	1	High Speed	1	3-Std. PWM 0-bit PWM resolutions 3-Input Capture	15	5-UART 1-SPI 2-I ² C	1	Yes		1	CAN-FD	Ethernet AVB	64	Please call for package information
ATSAMV71J21	300	2048	384	0	1	-40 to +105	1.62-3.6	24	5	12	1	High Speed	1	3-Std. PWM 0-bit PWM resolutions 3-Input Capture	15	5-UART 1-SPI 2-I ² C	1	Yes		1	CAN-FD	Ethernet AVB	64	Please call for package information
ATSAMV71N20	300	1024	384	0	1	-40 to +105	1.62-3.6	24	10	12	1	High Speed	1	8-Std. PWM 0-bit PWM resolutions 8-Input Capture	16	8-UART 4-SPI 3-I ² C	1	Yes		2	CAN-FD	Ethernet AVB	100	100/LQFP
ATSAMV71N21	300	2048	384	0	1	-40 to +105	1.62-3.6	24	10	12	1	High Speed	1	8-Std. PWM 0-bit PWM resolutions 8-Input Capture	16	8-UART 4-SPI 3-I ² C	1	Yes		2	CAN-FD	Ethernet AVB	100	100/LQFP 100/TFBGA
ATSAMV71Q20	300	1024	384	0	1	-40 to +105	1.62-3.6	24	24	12	1	High Speed	1	24-Std. PWM 0-bit PWM resolutions 24-Input Capture	16	8-UART 5-SPI 3-I ² C	1	Yes		2	CAN-FD	Ethernet AVB	144	144/LQFP 144/TFBGA
ATSAMV71Q21	300	2048	384	0	1	-40 to +105	1.62-3.6	24	24	12	1	High Speed	1	24-Std. PWM 0-bit PWM resolutions 24-Input Capture	16	8-UART 5-SPI 3-I ² C	1	Yes		2	CAN-FD	Ethernet AVB	144	144/LQFP 144/TFBGA
PIC32MZ1024EFG064	200	1024	512	0	160	-40 to +125	2.2-3.6	8	24	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 4-SPI 4-I ² C	4	No		0	None	10/100 Base-TX Mac	64	64/QFN 64/TQFP
PIC32MZ1024EFG100	200	1024	512	0	160	-40 to +125	2.2-3.6	8	40	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I ² C	6	No		0	None	10/100 Base-TX Mac	100	100/QFN 100/TQFP
PIC32MZ1024EFG124	200	1024	512	0	160	-40 to +125	2.2-3.6	8	48	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I ² C	6	No		0	None	10/100 Base-TX Mac	124	124/VTLA
PIC32MZ1024EFG144	200	1024	512	0	160	-40 to +125	2.2-3.6	8	48	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I ² C	6	No		0	None	10/100 Base-TX Mac	144	144/LQFP 144/TFBGA 144/TQFP
PIC32MZ1024EFH064	200	1024	512	0	160	-40 to +125	2.2-3.6	8	24	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 4-SPI 4-I ² C	4	No		2	CAN	10/100 Base-TX Mac	64	64/QFN 64/TQFP
PIC32MZ1024EFH100	200	1024	512	0	160	-40 to +125	2.2-3.6	8	40	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I ² C	6	No		2	CAN	10/100 Base-TX Mac	100	100/QFN 100/TQFP
PIC32MZ1024EFH124	200	1024	512	0	160	-40 to +125	2.2-3.6V	8	48	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I ² C	6	No		2	CAN	10/100 Base-TX Mac	124	124/VTLA
PIC32MZ1024EFH144	200	1024	512	0	160	-40 to +125	2.2-3.6V	15	48	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I ² C	6	No		2	CAN	10/100 Base-TX Mac	144	144/LQFP 144/TFBGA 144/TQFP
PIC32MZ1024EFM064	200	1024	512	0	160	-40 to +125	2.2-3.6V	8	24	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 4-SPI 4-I ² C	4	Yes		2	CAN	10/100 Base-TX Mac	64	64/QFN 64/TQFP
PIC32MZ1024EFM100	200	1024	512	0	160	-40 to +125	2.2-3.6	8	40	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I ² C	6	Yes		2	CAN	10/100 Base-TX Mac	100	100/QFN 100/TQFP
PIC32MZ1024EFM124	200	1024	512	0	160	-40 to +125	2.2-3.6	8	48	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I ² C	6	Yes		2	CAN	10/100 Base-TX Mac	124	124/VTLA
PIC32MZ1024EFM144	200	1024	512	0	160	-40 to +125	2.2-3.6	8	48	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I ² C	6	Yes		2	CAN	10/100 Base-TX Mac	144	144/LQFP 144/TFBGA 144/TQFP
PIC32MZ2048EFG064	200	2048	512	0	160	-40 to +125	2.2-3.6	8	24	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 4-SPI 4-I ² C	4	No		0	None	10/100 Base-TX Mac	64	64/QFN 64/TQFP
PIC32MZ2048EFG100	200	2048	512	0	160	-40 to +125	2.2-3.6	8	40	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I ² C	6	No		0	None	10/100 Base-TX Mac	100	100/QFN 100/TQFP

32-bit Microcontrollers																								
Product	Max CPU Speed (MHz)	Program Memory Size (KB)	RAM (KB)	Data EEPROM/HEF (Bytes)	Auxiliary Flash (KB)	Temperature Range	Operation Voltage Range (V)	Direct Memory Access Channels	ADC Input	Max ADC Resolution (Bits)	Number of DACs	USB Interface	Number of Comparators	Capture/Compare/PWM Peripherals	Motor Control PWM Outputs	UART/SPI/I ² C	I ² S	Crypto Engine	Hardware Touch Peripheral	Number of CAN Modules	Type of CAN module	Ethernet	Pin count	Packages
PIC32MZ2048EFG124	200	2048	512	0	160	−40 to +125	2.2–3.6	8	48	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I ² C	6	No		0	None	10/100 Base-TX Mac	124	124/VTLA
PIC32MZ2048EFG144	200	2048	512	0	160	−40 to +125	2.2–3.6	8	48	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I ² C	6	No		0	None	10/100 Base-TX Mac	144	144/LQFP 144/TFBGA 144/TQFP
PIC32MZ2048EFH064	252	2048	512	0	160	−40 to +125	2.2–3.6	8	24	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 4-SPI 4-I ² C	4	No		2	CAN	10/100 Base-TX Mac	64	64/QFN 64/TQFP
PIC32MZ2048EFH100	252	2048	512	0	160	−40 to +125	2.2–3.6	8	40	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I ² C	6	No		2	CAN	10/100 Base-TX Mac	100	100/QFN 100/TQFP
PIC32MZ2048EFH124	200	2048	512	0	160	−40 to +125	2.2–3.6	8	48	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I ² C	6	No		2	CAN	10/100 Base-TX Mac	124	124/VTLA
PIC32MZ2048EFH144	252	2048	512	0	160	−40 to +125	2.2–3.6	15	48	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I ² C	6	No		2	CAN	10/100 Base-TX Mac	144	144/LQFP 144/TFBGA 144/TQFP
PIC32MZ2048EFM100	200	2048	512	0	160	−40 to +125	2.2–3.6	8	40	12	0	None	2	9-Std. PWM 32-bit PWM resolutions 9-Input Capture	0	6-UART 6-SPI 5-I ² C	6	Yes		2	CAN	10/100 Base-TX Mac	100	100/QFN 100/TQFP

Successive Approximation Register

Product	Resolution (bits)	Max Sample Rate (ksamples/sec)	Number of Input Channels	Input Type	Interface	Analog Supply Voltage (V)	Digital Interface Voltage (V)	Input Voltage Range (V)	Max. Supply Current (μ A)	SNR (dB)	SFDR (dB)	THD (dB)	Typ. INL $\pm$ (LSB)	Temperature Range (°C)	Packages
MCP3001	10	200	1	Single-ended	SPI	2.7–5.5	–	0–5.5	500	–	80	–76	0.5	–40 to 85	8/MSOP 8/PDIP 8/SOIC 150 mil 8/TSSOP
MCP3002	10	200	2	Single-ended	SPI	2.7–5.5	–	0–5.5	550	–	78	–76	0.5	–40 to 85	8/MSOP 8/PDIP 8/SOIC 150 mil 8/TSSOP
MCP3004	10	200	4	Single-ended	SPI	2.7–5.5	–	0–5.5	500	–	–	–	0.5	–40 to 85	14/PDIP 14/SOIC 150 mil 14/TSSOP
MCP3008	10	200	8	Single-ended	SPI	2.7–5.5	–	0–5.5	500	–	–	–	0.5	–40 to 85	16/PDIP 16/SOIC 150 mil
MCP3021	10	22	1	Single-ended	I ² C	2.7–5.5	–	0 - 5.8	250	–	74	–70	0.25	–40 to 125	5/SOT-23
MCP3201	12	100	1	Single-ended	SPI	2.7–5.5	–	0–5.5	400	–	86	–82	0.75 (Grade B), 1 (Grade C)	–40 to 85	8/MSOP 8/PDIP 8/SOIC 150 mil 8/TSSOP
MCP3202	12	100	2	Single-ended	SPI	2.7–5.5	–	0–5.5	550	–	86	–82	0.75 (Grade B), 1 (Grade C)	–40 to 85	8/MSOP 8/PDIP 8/SOIC 150 mil 8/TSSOP
MCP3204	12	100	4	Single-ended	SPI	2.7–5.5	–	0–5.5	400	–	–	–	0.75 (Grade B), 1 (Grade C)	–40 to 85	14/PDIP 14/SOIC 150 mil 14/TSSOP
MCP3208	12	100	8	Single-ended	SPI	2.7–5.5	–	0–5.5	400	–	–	–	0.75 (Grade B), 1 (Grade C)	–40 to 85	16/PDIP 16/SOIC 150 mil
MCP3221	12	22	1	Single-ended	I ² C	2.7–5.5	–	0 - 5.8	250	–	86	–82	0.75	–40 to 125	5/SOT-23
MCP3301	13	100	1	1 Differential	SPI	4.5–5.5	–	0–5.5	450	–	92	–91	0.5 (Grade B), 1 (Grade C)	–40 to 85	8/MSOP 8/PDIP 8/SOIC 150 mil
MCP3302	13	100	2	2 Differential	SPI	4.5–5.5	–	0–5.5	450	–	92	–91	0.5 (Grade B), 1 (Grade C)	–40 to 85	14/PDIP 14/SOIC 150 mil 14/TSSOP
MCP3304	13	100	4	4 Differential	SPI	4.5–5.5	–	0–5.5	450	–	92	–91	0.5 (Grade B), 1 (Grade C)	–40 to 85	16/PDIP 16/SOIC 150 mil
MCP33111-05	12	500	1	Single-ended	SPI	1.7–1.9	1.7–5.5	0–5.1	2000	73.8	95.9	–93.7	0.12	–40 to 125	10/MSOP 10/TDFN
MCP33111-10	12	1000	1	Single-ended	SPI	1.7–1.9	1.7–5.5	0–5.1	2400	73.8	95.9	–93.7	0.12	–40 to 125	10/MSOP 10/TDFN
MCP33111D-05	12	500	1	1 Differential	SPI	1.7–1.9	1.7–5.5	0–5.1	2000	73.9	99.3	–96.7	0.12	–40 to 125	10/MSOP 10/TDFN
MCP33111D-10	12	1000	1	1 Differential	SPI	1.7–1.9	1.7–5.5	0–5.1	2400	73.9	99.3	–96.7	0.12	–40 to 125	10/MSOP 10/TDFN
MCP33121-05	14	500	1	Single-ended	SPI	1.7–1.9	1.7–5.5	0–5.1	2000	83.5	98.8	–97.2	0.5	–40 to 125	10/MSOP 10/TDFN
MCP33121-10	14	1000	1	Single-ended	SPI	1.7–1.9	1.7–5.5	0–5.1	2400	83.5	98.8	–97.2	0.55	–40 to 125	10/MSOP 10/TDFN
MCP33121D-05	14	500	1	1 Differential	SPI	1.7–1.9	1.7–5.5	0–5.1	2000	85.1	103.5	–99.2	0.5	–40 to 125	10/MSOP 10/TDFN
MCP33121D-10	14	1000	1	1 Differential	SPI	1.7–1.9	1.7–5.5	0–5.1	2400	85.1	103.5	–99.2	0.5	–40 to 125	10/MSOP 10/TDFN
MCP33131-05	16	500	1	Single-ended	SPI	1.7–1.9	1.7–5.5	0–5.1	2000	86.7	98.9	–97.4	2.2	–40 to 125	10/MSOP 10/TDFN
MCP33131-10	16	1000	1	Single-ended	SPI	1.7–1.9	1.7–5.5	0–5.1	2400	86.7	98.9	–97.4	2.2	–40 to 125	10/MSOP 10/TDFN
MCP33131D-05	16	500	1	1 Differential	SPI	1.7–1.9	1.7–5.5	0–5.1	2000	91.3	103.5	–99.3	2	–40 to 125	10/MSOP 10/TDFN
MCP33131D-10	16	1000	1	1 Differential	SPI	1.7–1.9	1.7–5.5	0–5.1	2400	91.3	103.5	–99.3	2	–40 to 125	10/MSOP 10/TDFN

Delta - Sigma AD Converters										
Product	Resolution (bits)	Max Sample Rate (samples/sec)	Input Type	Interface	Typical Supply Current (μA)	Typical INL (ppm)	Offset (μV)	ENOB	Output Noise (μVrms)	Packages
MCP3421	18	4	1 Differential	I ² C	155	10	15	18	1.5	6/SOT-23
MCP3422	18	4	2 Differential	I ² C	145	10	15	18	1.5	8/DFN 8/MSOP 8/SOIC 150 mil
MCP3423	18	4	2 Differential	I ² C	145	10	15	18	1.5	10/DFN 10/MSOP
MCP3424	18	4	4 Differential	I ² C	145	10	15	18	1.5	14/SOIC 150 mil 14/TSSOP
MCP3425	16	15	1 Differential	I ² C	155	10	30	16	2.5	6/SOT-23
MCP3426	16	15	2 Differential	I ² C	145	10	30	–	2.5	8/DFN 8/MSOP 8/SOIC 150 mil
MCP3427	16	15	2 Differential	I ² C	145	10	30	–	2.5	10/DFN 10/MSOP
MCP3428	16	15	4 Differential	I ² C	145	10	30	–	2.5	14/SOIC 150 mil 14/TSSOP
MCP3550-50	22	13	1 Differential	SPI	120	2	3	21.9	2.5	8/MSOP 8/SOIC 150 mil
MCP3550-60	22	15	1 Differential	SPI	140	2	3	21.9	2.5	8/MSOP 8/SOIC 150 mil
MCP3551	22	14	1 Differential	SPI	120	2	3	21.9	2.5	8/MSOP 8/SOIC 150 mil
MCP3553	22	60	1 Differential	SPI	140	2	3	20.6	2.5	8/MSOP 8/SOIC 150 mil

Digital Potentiometers									
Product	Resolution (# of Taps)	# of Channels	Interface	Resistance (ohms) k	Max. INL $\pm$ (LSB)	Max DNL $\pm$ (LSB)	Memory Type	Temp Range (°C)	Packages
MCP4011	64	1	Up/Down Protocol	2.1, 5, 10, 50	0.5	0.5	Volatile	-40 to +125	8/DFN 8/MSOP 8/SOIC 150 mil
MCP4012	64	1	Up/Down Protocol	2.1, 5, 10, 50	0.5	0.5	Volatile	-40 to +125	6/SOT-23
MCP4013	64	1	Up/Down Protocol	10,2.1,5,50	0.5	0.5	Volatile	-40 to +125	6/SOT-23
MCP4014	64	1	Up/Down Protocol	2.1, 5, 10, 50	0.5	0.5	Volatile	-40 to +125	5/SOT-23
MCP4021	64	1	Up/Down Protocol	2.1, 5, 10, 50	0.5	0.5	Non-volatile	-40 to +125	8/DFN 8/MSOP 8/SOIC 150 mil
MCP4022	64	1	Up/Down Protocol	2.1, 5, 10, 50	0.5	0.5	Non-volatile	-40 to +125	6/SOT-23
MCP4023	64	1	Up/Down Protocol	2.1, 5, 10, 50	0.5	0.5	Non-volatile	-40 to +125	6/SOT-23
MCP4024	64	1	Up/Down Protocol	10,2.1,5,50	0.5	0.5	Non-volatile	-40 to +125	5/SOT-23
MCP41HV31	127	1	SPI	5, 10, 50, 100	0.5	0.125	Volatile	-40 to +125	14/TSSOP 20/QFN
MCP4017	128	1	I ² C	5, 10, 50, 100	0.5	0.25	Volatile	-40 to +125	6/SC-70
MCP4018	128	1	I ² C	5, 10, 50, 100	0.5	0.25	Volatile	-40 to +125	6/SC-70
MCP4019	128	1	I ² C	5, 10, 50, 100	0.5	0.25	Volatile	-40 to +125	5/SC-70
MCP40D17	128	1	I ² C	5, 10, 50, 100	0.5	0.25	Volatile	-40 to +125	6/SC-70
MCP40D18	128	1	I ² C	5, 10, 50, 100	0.5	0.25	Volatile	-40 to +125	6/SC-70
MCP40D19	128	1	I ² C	5, 10, 50, 100	0.25	0.5	Volatile	-40 to +125	5/SC-70
MCP4331	128	4	2 SPI	5, 10, 50, 100	1	0.5	Volatile	-40 to +125	20/PDIP 20/QFN 20/TSSOP
MCP4531	128	1	I ² C	5, 10, 50, 100	0.5	0.25	Volatile	-40 to +125	8/DFN 8/MSOP
MCP45HV31	128	1	I ² C	5, 10, 50, 100	0.5	0.125	Volatile	-40 to +125	14/TSSOP 20/QFN
MCP4131	129	1	SPI	10,100,5,50	0.5	0.25	Volatile	-40 to +125	8/DFN 8/MSOP 8/PDIP 8/SOIC 150 mil
MCP4132	129	1	SPI	5, 10, 50, 100	1.125	0.375	Volatile	-40 to +125	8/DFN 8/MSOP 8/PDIP 8/SOIC 150 mil
MCP4141	129	1	SPI	10,100,5,50	0.5	0.25	Non-volatile	-40 to +125	8/DFN 8/MSOP 8/PDIP 8/SOIC 150 mil
MCP4142	129	1	SPI	5, 10, 50, 100	1.125	0.375	Non-volatile	-40 to +125	8/DFN 8/MSOP 8/PDIP 8/SOIC 150 mil
MCP4231	129	2	SPI	10,100,5,50	0.5	0.25	Volatile	-40 to +125	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/QFN
MCP4232	129	2	SPI	5, 10, 50, 100	1.125	0.375	Volatile	-40 to +125	10/DFN 10/MSOP
MCP4241	129	2	SPI	10,100,5,50	0.5	0.25	Non-volatile	-40 to +125	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/QFN
MCP4242	129	2	SPI	5, 10, 50, 100	1.125	0.375	Non-volatile	-40 to +125	10/DFN 10/MSOP
MCP4332	129	4	2SPI	5, 10, 50, 100	1.125	0.375	Volatile	-40 to +125	14/TSSOP
MCP4341	129	4	SPI	5, 10, 50, 100	0.5	0.25	Non-volatile	-40 to +125	20/PDIP 20/QFN 20/TSSOP
MCP4342	129	4	SPI	5, 10, 50, 100	1	0.375	Non-volatile	-40 to +125	14/TSSOP
MCP4351	129	4	SPI	5, 10, 50, 100	0.5	0.25	Volatile	-40 to +125	20/PDIP 20/QFN 20/TSSOP
MCP4431	129	4	I ² C	5, 10, 50, 100	1	0.5	Volatile	-40 to +125	20/QFN 20/TSSOP
MCP4432	129	4	I ² C	5, 10, 50, 100	1	0.5	Volatile	-40 to +125	14/TSSOP
MCP4441	129	4	I ² C	5, 10, 50, 100	0.5	0.25	Non-volatile	-40 to +125	20/QFN 20/TSSOP
MCP4442	129	4	I ² C	5, 10, 50, 100	0.8	0.375	Non-volatile	-40 to +125	14/TSSOP

Digital Potentiometers									
Product	Resolution (# of Taps)	# of Channels	Interface	Resistance (ohms) k	Max. INL ± (LSB)	Max DNL ± (LSB)	Memory Type	Temp Range (°C)	Packages
MCP4532	129	1	I ² C	5, 10, 50, 100	0.8	0.375	Volatile	-40 to +125	8/DFN 8/MSOP
MCP4541	129	1	I ² C	5, 10, 50, 100	0.5	0.25	Non-volatile	-40 to +125	8/DFN 8/MSOP
MCP4631	129	2	I ² C	5, 10, 50, 100	0.5	0.25	Volatile	-40 to +125	14/TSSOP 16/QFN
MCP4632	129	2	I ² C	5, 10, 50, 100	0.8	0.375	Volatile	-40 to +125	10/DFN 10/MSOP
MCP4641	129	2	I ² C	5, 10, 50, 100	1	0.5	Non-volatile	-40 to +125	14/TSSOP 16/QFN
MCP4642	129	2	I ² C	5, 10, 50, 100	1	0.5	Non-volatile	-40 to +125	10/DFN 10/MSOP
MCP41HV51	255	1	SPI	5, 10, 50, 100	1	0.25	Volatile	-40 to +125	14/TSSOP 20/QFN
MCP42010	256	2	SPI	10	1	1	Volatile	-40 to +125	14/PDIP 14/SOIC 150 mil 14/TSSOP
MCP42050	256	2	SPI	50	1	1	Volatile	-40 to +125	14/PDIP 14/SOIC 150 mil 14/TSSOP
MCP42100	256	2	SPI	100	1	1	Volatile	-40 to +125	14/PDIP 14/SOIC 150 mil 14/TSSOP
MCP4352	256	4	SPI	5, 10, 50, 100	0.5	0.25	Volatile	-40 to +125	14/TSSOP
MCP4542	256	1	I ² C	5, 10, 50, 100	1	0.5	Non-volatile	-40 to +125	8/DFN 8/MSOP
MCP45HV51	256	1	I ² C	5, 10, 50, 100	0.5	0.125	Volatile	-40 to +125	14/TSSOP 20/QFN
MCP4151	257	1	SPI	5, 10, 50, 100	1	0.5	Volatile	-40 to +125	8/DFN 8/MSOP 8/PDIP 8/SOIC 150 mil
MCP4152	257	1	SPI	5, 10, 50, 100	1.5	0.5	Volatile	-40 to +125	8/DFN 8/MSOP 8/PDIP 8/SOIC 150 mil
MCP4161	257	1	SPI	10,100,5,50	1	0.5	Non-volatile	-40 to +125	8/DFN 8/MSOP 8/PDIP 8/SOIC 150 mil
MCP4162	257	1	SPI	5, 10, 50, 100	1.5	0.5	Non-volatile	-40 to +125	8/DFN 8/MSOP 8/PDIP 8/SOIC 150 mil
MCP4251	257	2	SPI	5, 10, 50, 100	1	0.5	Volatile	-40 to +125	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/QFN
MCP4252	257	2	SPI	5, 10, 50, 100	1.5	0.5	Volatile	-40 to +125	10/DFN 10/MSOP
MCP4261	257	2	SPI	10,100,5,50	1	0.5	Non-volatile	-40 to +125	14/PDIP 14/SOIC 150 mil 14/TSSOP 16/QFN
MCP4262	257	2	SPI	5, 10, 50, 100	1.5	0.5	Non-volatile	-40 to +125	10/DFN 10/MSOP
MCP4361	257	4	SPI	5, 10, 50, 100	1	0.5	Non-volatile	-40 to +125	20/PDIP 20/QFN 20/TSSOP
MCP4362	257	4	SPI	5, 10, 50, 100	1	0.5	Non-volatile	-40 to +125	14/TSSOP
MCP4451	257	4	I ² C	5, 10, 50, 100	1	0.5	Volatile	-40 to +125	20/QFN 20/TSSOP
MCP4452	257	4	I ² C	5, 10, 50, 100	1	0.5	Volatile	-40 to +125	14/TSSOP
MCP4461	257	4	I ² C	5, 10, 50, 100	1	0.5	Non-volatile	-40 to +125	20/QFN 20/TSSOP
MCP4462	257	4	I ² C	5, 10, 50, 100	1	0.5	Non-volatile	-40 to +125	14/TSSOP
MCP4551	257	1	I ² C	5,10,50,100	1	0.5	Volatile	-40 to +125	8/DFN 8/MSOP
MCP4552	257	1	I ² C	5,10,50,100	1	0.5	Volatile	-40 to +125	8/DFN 8/MSOP
MCP4561	257	1	I ² C	5, 10, 50, 100	0.5	0.25	Non-volatile	-40 to +125	8/DFN 8/MSOP
MCP4562	257	1	I ² C	5, 10, 50, 100	0.5	0.25	Non-volatile	-40 to +125	8/DFN 8/MSOP
MCP4651	257	2	I ² C	5,10,50,100	1	0.5	Volatile	-40 to +125	14/TSSOP 16/QFN
MCP4652	257	2	I ² C	5, 10, 50, 100	1	0.5	Volatile	-40 to +125	10/DFN 10/MSOP
MCP4661	257	2	I ² C	5, 10, 50, 100	1	0.5	Non-volatile	-40 to +125	14/TSSOP 16/QFN

Digital Potentiometers									
Product	Resolution (# of Taps)	# of Channels	Interface	Resistance (ohms) k	Max. INL $\pm$ (LSB)	Max DNL $\pm$ (LSB)	Memory Type	Temp Range (°C)	Packages
MCP4662	257	2	I ² C	5, 10, 50, 100	1	0.5	Non-volatile	−40 to +125	10/DFN 10/MSOP

DA Converter									
Product	Resolution (bits)	DACs per Package	Interface	V _{REF}	Output Settling Time (μs)	DNL (LSB)	Typical Standby Current (μA)	Typical Operating Current (μA)	Packages
MCP47A1	6	1	I ² C	Ext	6	0.5	90	130	6/SC-70
MCP47DA1	6	1	I ² C	Ext, V _{DD}	6	0.25	90	130	6/SC-70 6/SOT-23
MCP4706	8	1	I ² C	Ext, V _{DD}	6	0.05	0.06	210	6/DFN 6/SOT-23
MCP47FEB01	8	1	I ² C	Int, V _{DD} , Ext	6	±0.25	0.65	130	8/TSSOP
MCP47FEB02	8	2	I ² C	Int, V _{DD} , Ext	6	±0.25	0.65	260	8/TSSOP
MCP47FVB01	8	1	I ² C	Int, V _{DD} , Ext	6	±0.25	0.65	130	8/TSSOP
MCP47FVB02	8	2	I ² C	Int, V _{DD} , Ext	6	±0.25	0.65	260	8/TSSOP
MCP4801	8	1	SPI	Int	4.5	0.5	0.3	330	8/DFN 8/MSOP 8/PDIP 8/SOIC 150 mil
MCP4802	8	2	SPI	Int	4.5	0.5	3.3	415	8/MSOP 8/PDIP 8/SOIC 150 mil
MCP48FEB01	8	1	SPI	Int, V _{DD} , Ext	7.8	±0.25	0.65	130	10/MSOP
MCP48FEB02	8	2	SPI	Int, V _{DD} , Ext	7.8	±0.25	0.65	250	10/MSOP
MCP48FVB01	8	1	SPI	Int, V _{DD} , Ext	7.8	±0.25	0.65	130	10/MSOP
MCP48FVB02	8	2	SPI	Int, V _{DD} , Ext	7.8	±0.25	0.65	260	10/MSOP
MCP4901	8	1	SPI	Ext	4.5	0.5	3.3	175	8/DFN 8/MSOP 8/PDIP 8/SOIC 150 mil
MCP4902	8	2	SPI	Ext	4.5	0.5	0.3	350	14/PDIP 14/SOIC 150 mil 14/TSSOP
MCP4716	10	1	I ² C	Ext	6	0.188	0.06	210	6/DFN 6/SOT-23
MCP47FEB11	10	1	I ² C	Int, V _{DD} , Ext	6	±0.5	0.65	130	8/TSSOP
MCP47FEB12	10	2	I ² C	Int, V _{DD} , Ext	6	±0.5	0.65	260	8/TSSOP
MCP47FVB11	10	1	I ² C	Int, V _{DD} , Ext	6	±0.5	0.65	130	8/TSSOP
MCP47FVB12	10	2	I ² C	Int, V _{DD} , Ext	6	±0.5	0.65	260	8/TSSOP
MCP4811	10	1	SPI	Int	4.5	0.5	0.3	330	8/DFN 8/MSOP 8/PDIP 8/SOIC 150 mil
MCP4812	10	2	SPI	Int	4.5	0.5	3.3	415	8/MSOP 8/PDIP 8/SOIC 150 mil
MCP48FEB11	10	1	SPI	Int, V _{DD} , Ext	7.8	±0.5	0.65	130	10/MSOP
MCP48FEB12	10	2	SPI	Int, V _{DD} , Ext	7.8	±0.5	0.65	250	10/MSOP
MCP48FVB11	10	1	SPI	Int, V _{DD} , Ext	7.8	±0.5	0.65	130	10/MSOP
MCP48FVB12	10	2	SPI	Int, V _{DD} , Ext	7.8	±0.5	0.65	260	10/MSOP
MCP4911	10	1	SPI	Ext	4.5	0.5	3.3	175	8/DFN 8/MSOP 8/PDIP 8/SOIC 150 mil
MCP4912	10	2	SPI	Ext	4.5	0.5	0.3	350	14/PDIP 14/SOIC 150 mil 14/TSSOP
MCP4725	12	1	I ² C	Ext	6	0.75	0.06	210	6/DFN 6/SOT-23
MCP4726	12	1	I ² C	Ext	6	0.75	0.06	210	6/DFN 6/SOT-23 8/PDIP

DA Converter									
Product	Resolution (bits)	DACs per Package	Interface	V _{REF}	Output Settling Time (μs)	DNL (LSB)	Typical Standby Current (μA)	Typical Operating Current (μA)	Packages
MCP4728	12	4	I ² C	Int, V _{DD}	6	0.75	0.04	800	10/MSOP
MCP47FEB21	12	1	I ² C	Int, V _{DD} , Ext	6	±1.0	0.65	130	8/TSSOP
MCP47FEB22	12	2	I ² C	Int, V _{DD} , Ext	6	±1.0	0.65	260	8/TSSOP
MCP47FVB21	12	1	I ² C	Int, V _{DD} , Ext	6	±1.0	0.65	130	8/TSSOP
MCP47FVB22	12	2	I ² C	Int, V _{DD} , Ext	6	±1.0	0.65	260	8/TSSOP
MCP4821	12	1	SPI	Int	4.5	0.75	0.3	330	8/DFN 8/MSOP 8/PDIP 8/SOIC 150 mil
MCP4822	12	2	SPI	Int	4.5	0.75	3.3	415	8/MSOP 8/PDIP 8/SOIC 150 mil
MCP48FEB21	12	1	SPI	Int, V _{DD} , Ext	7.8	±1.0	0.65	130	10/MSOP
MCP48FEB22	12	2	SPI	Int, V _{DD} , Ext	7.8	±1.0	0.65	250	10/MSOP
MCP48FVB21	12	1	SPI	–	16	±1.0	0.65	130	10/MSOP
MCP48FVB22	12	2	SPI	Int, V _{DD} , Ext	7.8	±1.0	0.65	260	10/MSOP
MCP4921	12	1	SPI	Ext	4.5	0.75	3.3	175	8/DFN 8/MSOP 8/PDIP 8/SOIC 150 mil
MCP4922	12	2	SPI	Ext	4.5	0.75	0.3	350	14/PDIP 14/SOIC 150 mil 14/TSSOP

Smart Energy Analog Front End																	
Product	Power Type	Device Type	Number of Channels	ADC Resolution (bits)	ADC SINAD (dB)	Measurement Error	Dynamic Range	Gain Selection	Voltage Reference Drift typical (ppm/°C)	Interface	Operating Voltage (V)	PSRR % type	Aidd (mA) Max.	Didd (mA) Max.	Temperature Range (°C)	Comments	Packages
MCP3901	Single-Phase	Analog-Front-End	2	24	91	0.10%	–	1:32	15	SPI	4.5–5.5	–77 dB	2.1	0.8	–40 to +125	–	20/QFN 20/SSOP 208 mil
MCP3903	Poly-Phase	Analog-Front-End	6	24	91	0.10%	–	1:32	5	SPI	4.5–5.5	–68 dB	9	1.7	–40 to +125	–	28/SSOP 208 mil
MCP3905A	Single-Phase	Energy Meter IC	2	16	n/a	0.10%	500:1	1:16	15	Pulse Output	4.5–5.5	0.01%	3	2	–40 to +125	Active power only	24/SSOP 208 mil
MCP3905L	Single-Phase	Energy Meter IC	2	16	n/a	0.10%	500:1	1:16	15	Pulse Output	4.5–5.5	0.01%	3	2	–40 to +125	Active power only with reduced pulse width	24/SSOP 208 mil
MCP3906A	Single-Phase	Energy Meter IC	2	16	n/a	0.10%	1000:1	1:32	15	Pulse Output	4.5–5.5	0.01%	3	2	–40 to +125	Active power only	24/SSOP 208 mil
MCP3909	Single-Phase	Energy Meter IC	2	16	82	0.10%	1000:1	1:16	15	SPI/Pulse Output	2.7–3.6	0.01%	2.8	1.2	–40 to +125	Active power only	24/SSOP 208 mil
MCP3910	Single-Phase Poly-Phase	Analog-Front-End	2	24	93.5	0.10%	10000:1	1:32	9	SPI/2-Wire	2.7–3.6	–73 dB	1.7	0.28	–40 to +125	2-Wire optimized for poly-phase shunt meters	20/QFN 20/SSOP 208 mil
MCP3911	Single-Phase	Analog-Front-End	2	24	94.5	0.10%	10000:1	1:32	7	SPI	2.7–3.6	–73 dB	1.7	0.28	–40 to +125	–	20/QFN 20/SSOP 208 mil
MCP3912	Poly-Phase	Analog-Front-End	4	24	93.5	0.10%	10000:1	1:32	9	SPI	2.7–3.6	–73	4	0.6	–40 to +125	–	28/QFN 28/SSOP 208 mil
MCP3913	Poly-Phase	Analog-Front-End	6	24	94.5	0.10%	10000:1	1:32	9	SPI	2.7–3.6	–73 dB	6	1	–40 to +125	Also ideal for single-phase power distribution systems	28/SSOP 208 mil 40/UQFN
MCP3914	Poly-Phase	Analog-Front-End	8	24	94.5	0.10%	10000:1	1:32	9	SPI	2.7–3.6	–73 dB	7.8	1.1	–40 to +125	Also ideal for single-phase power distribution systems	40/UQFN
MCP3918	Single-Phase Poly-Phase	Analog-Front-End	1	24	93.5	0.10%	10000:1	1:32	9	SPI/2-Wire	2.7–3.6	–73 dB	2.9	0.7	–40 to +125	2-Wire optimized for poly-phase shunt meters	20/QFN 20/SSOP 208 mil

Smart Energy Analog Front End																	
Product	Power Type	Device Type	Number of Channels	ADC Resolution (bits)	ADC SINAD (dB)	Measurement Error	Dynamic Range	Gain Selection	Voltage Reference Drift Typical (ppm/°C)	Interface	Operating Voltage (V)	PSRR % type	A _{ldd} (mA) Max.	D _{ldd} (mA) Max.	Temperature Range (°C)	Comments	Packages
MCP3919	Single-Phase Poly-Phase	Analog-Front-End	3	24	93.5	0.10%	10000:1	1:32	9	SPI/2-Wire	2.7–3.6	–73	4	0.6	–40 to +125	2-Wire optimized for poly-phase shunt meters	28/QFN 28/SSOP 208 mil
MCP39F501	Single-Phase	Power Monitoring IC	2	24	94.5	0.10%	4000:1	1:32	10	UART	2.7–3.6	73 dB	0	8	–40 to +125	–	28/QFN
MCP39F511	Single-Phase	Power Monitoring IC	2	24	94.5	0.10%	4000:1	1:32	10	UART	2.7–3.6	73 dB	0	0	–40 to +125	–	28/QFN
MCP39F511A	Single-Phase	Power Monitoring IC	2	24	94.5	0.10%	4000:1	1:32	7	UART	2.7–3.6	73 dB	0	0	–40 to +125	–	28/QFN
MCP39F511N	Single-Phase	Power Monitoring IC	3	24	94.5	0.50%	4000:1	1:32	10	UART	2.7–3.6	73 dB	0	0	–40 to +125	Metering and monitoring of two electrical loads	28/QFN
MCP39F521	Single-Phase	Power Monitoring IC	2	24	94.5	0.10%	4000:1	1:32	10	I ² C	2.7–3.6	73 dB	0	0	–40 to +125	–	28/QFN

Op Amps																		
Product	Description	# per Package	GBWP (kHz)	Iq Max (uA)	Vos Max (uV)	Operating Voltage Range (V)	Input Voltage Noise Density (nV/rt(Hz))	PSRR Min (dB)	CMRR Min (dB)	$\Delta V_{os}/\Delta T_a$ ($\mu V/^{\circ}C$)	Ib (pA)	Aol (dB)	PM (deg)	Isc (mA)	Rail-To-Rail	Unity Gain Stable	Slew Rate (V/ μ S)	Packages
MCP6441	Linear Op Amps	1	9	0.65	4500	1.4-6.0	190	65	60	2.5	1	110	65	22	In/Out	Yes	0.003	5/SOT-23 5/SC-70
MCP6442	Linear Op Amps	2	9	0.65	4500	1.4-6.0	190	65	60	2.5	1	110	65	22	In/Out	Yes	0.003	8/SOIC 150 mil 8/MSOP 8/TDFN
MCP6444	Linear Op Amps	4	9	0.65	4500	1.4-6.0	190	65	60	2.5	1	110	65	22	In/Out	Yes	0.003	14/TSSOP 14/SOIC 150 mil
MCP6031	Linear Op Amps	1	10	1.35	150	1.8-5.5	165	70	70	3	1	115	65	23	In/Out	Yes	0.004	8/PDIP 8/SOIC 150 mil 5/SOT-23 8/MSOP 8/DFN
MCP6033	Linear Op Amps	1	10	1.35	150	1.8-5.5	165	70	70	3	1	115	65	23	In/Out	Yes	0.004	8/SOIC 150 mil 8/MSOP 8/DFN
MCP6032	Linear Op Amps	2	10	1.35	150	1.8-5.5	165	70	70	3	1	115	65	23	In/Out	Yes	0.004	8/PDIP 8/SOIC 150 mil 8/MSOP
MCP6034	Linear Op Amps	4	10	1.35	150	1.8-5.5	165	70	70	3	1	115	65	23	In/Out	Yes	0.004	14/TSSOP 14/SOIC 150 mil
MCP6041	Linear Op Amps	1	14	1	3000	1.4-6.0	170	70	62	1.5	1	115	65	21	In/Out	Yes	0.003	8/PDIP 8/SOIC 150 mil 5/SOT-23 8/MSOP
MCP6043	Linear Op Amps	1	14	1	3000	1.4-6.0	170	70	62	1.5	1	115	65	21	In/Out	Yes	0.003	8/PDIP 8/SOIC 150 mil 8/MSOP 6/SOT-23
MCP6042	Linear Op Amps	2	14	1	3000	1.4-6.0	170	70	62	1.5	1	115	65	21	In/Out	Yes	0.003	8/PDIP 8/SOIC 150 mil 8/MSOP
MCP6044	Linear Op Amps	4	14	1	3000	1.4-6.0	170	70	62	1.5	1	115	65	21	In/Out	Yes	0.003	14/PDIP 14/TSSOP 14/SOIC 150 mil
MCP6V11	Linear High Precision Op Amps-Chopper Stabilized	1	80	11	8	1.6-5.5	102	118	119	0.05	5	112	70	17	In/Out	Yes	0.03	5/SOT-23
MCP6V11U	Linear High Precision Op Amps-Chopper Stabilized	1	80	11	8	1.6-5.5	102	118	119	0.05	5	112	70	17	In/Out	Yes	0.03	5/SOT-23 5/SC-70
MCP6V12	Linear High Precision Op Amps-Chopper Stabilized	2	80	11	8	1.6-5.5	102	118	119	0.05	5	112	70	17	In/Out	Yes	0.03	8/MSOP 8/TDFN
MCP6V14	Linear High Precision Op Amps-Chopper Stabilized	4	80	11	8	1.6-5.5	102	118	119	0.05	5	112	70	17	In/Out	Yes	0.03	14/TSSOP
MCP6421	Linear Op Amps	1	90	5.5	1000	1.8-5.5	95	90	90	3	1	115	55	22	In/Out	Yes	0.05	5/SOT-23 5/SC-70
MCP6422	Linear Op Amps	2	90	5.5	1000	1.8-5.5	95	90	90	3	1	115	55	22	In/Out	Yes	0.05	8/SOIC 150 mil 8/MSOP
MCP6424	Linear Op Amps	4	90	5.5	1000	1.8-5.5	95	90	90	3	1	115	55	22	In/Out	Yes	0.05	14/TSSOP 14/SOIC 150 mil
MCP6141	Linear Op Amps	1	100	1	3000	1.4-6.0	170	70	60	1.5	1	115	60	21	In/Out	No	0.024	8/PDIP 8/SOIC 150 mil 5/SOT-23 8/MSOP
MCP6143	Linear Op Amps	1	100	1	3000	1.4-6.0	170	70	60	1.5	1	115	60	21	In/Out	No	0.024	8/PDIP 8/SOIC 150 mil 8/MSOP 6/SOT-23
MCP6142	Linear Op Amps	2	100	1	3000	1.4-6.0	170	70	60	1.5	1	115	60	21	In/Out	No	0.024	8/PDIP 8/SOIC 150 mil 8/MSOP
MCP6144	Linear Op Amps	4	100	1	3000	1.4-6.0	170	70	60	1.5	1	115	60	21	In/Out	No	0.024	14/PDIP 14/TSSOP 14/SOIC 150 mil
MCP606	Linear Op Amps	1	155	25	250	2.5-6.0	38	80	75	1.8	1	118	62	17	Out	Yes	0.08	8/PDIP 8/SOIC 150 mil 8/TSSOP 5/SOT-23
MCP608	Linear Op Amps	1	155	25	250	2.5-6.0	38	80	75	1.8	1	118	62	17	Out	Yes	0.08	8/PDIP 8/SOIC 150 mil 8/TSSOP
MCP607	Linear Op Amps	2	155	25	250	2.5-6.0	38	80	75	1.8	1	118	62	17	Out	Yes	0.08	8/PDIP 8/SOIC 150 mil 8/TSSOP
MCP609	Linear Op Amps	4	155	25	250	2.5-6.0	38	80	75	1.8	1	118	62	17	Out	Yes	0.08	14/PDIP 14/TSSOP 14/SOIC 150 mil
MCP616	Linear Op Amps	1	190	25	150	2.3-5.5	32	86	80	2	15000	115	57	17	Out	Yes	0.08	8/PDIP 8/SOIC 150 mil 8/MSOP
MCP618	Linear Op Amps	1	190	25	150	2.3-5.5	32	86	80	2	15000	115	57	17	Out	Yes	0.08	8/PDIP 8/SOIC 150 mil 8/MSOP
MCP617	Linear Op Amps	2	190	25	150	2.3-5.5	32	86	80	2	15000	115	57	17	Out	Yes	0.08	8/PDIP 8/SOIC 150 mil 8/MSOP
MCP619	Linear Op Amps	4	190	25	150	2.3-5.5	32	86	80	2	15000	115	57	17	Out	Yes	0.08	14/PDIP 14/TSSOP 14/SOIC 150 mil
MCP6231	Linear Op Amps	1	300	30	5000	1.8-6.0	52	83	61	3	1	110	65	23	In/Out	Yes	0.15	8/PDIP 8/SOIC 150 mil 5/SOT-23 8/MSOP 5/SC-70 8/DFN
MCP6231U	Linear Op Amps	1	300	30	5000	1.8-6.0	52	83	61	3	1	110	65	23	In/Out	Yes	0.15	5/SOT-23 5/SC-70
MCP6231R	Linear Op Amps	1	300	30	5000	1.8-6.0	52	83	61	3	1	110	65	23	In/Out	Yes	0.15	5/SOT-23
MCP6232	Linear Op Amps	2	300	30	5000	1.8-6.0	52	83	61	3	1	110	65	23	In/Out	Yes	0.15	8/PDIP 8/SOIC 150 mil 8/MSOP 8/TDFN
MCP6234	Linear Op Amps	4	300	30	5000	1.8-6.0	52	83	61	3	1	110	65	23	In/Out	Yes	0.15	14/PDIP 14/TSSOP 14/SOIC 150 mil
MCP6V31	Linear High Precision Op Amps-Chopper Stabilized	1	300	34	8	1.8-5.5	50	120	120	0.05	5	120	70	21	In/Out	Yes	0.13	5/SOT-23
MCP6V31U	Linear High Precision Op Amps-Chopper Stabilized	1	300	34	8	1.8-5.5	50	120	120	0.05	5	120	70	21	In/Out	Yes	0.13	5/SOT-23 5/SC-70
MCP6V32	Linear High Precision Op Amps-Chopper Stabilized	2	300	34	8	1.8-5.5	50	120	120	0.05	5	120	70	21	In/Out	Yes	0.13	8/MSOP 8/TDFN
MCP6V34	Linear High Precision Op Amps-Chopper Stabilized	4	300	34	8	1.8-5.5	50	120	120	0.05	5	120	70	21	In/Out	Yes	0.13	14/TSSOP
MCP6051	Linear Op Amps	1	385	45	150	1.8-6.0	34	87	91	1.5	1	115	61	26	In/Out	Yes	0.15	8/SOIC 150 mil 5/SOT-23 8/TDFN
MCP6052	Linear Op Amps	2	385	45	150	1.8-6.0	34	87	91	1.5	1	115	61	26	In/Out	Yes	0.15	8/SOIC 150 mil 8/TDFN
MCP6054	Linear Op Amps	4	385	45	150	1.8-6.0	34	87	91	1.5	1	115	61	26	In/Out	Yes	0.15	14/TSSOP 14/SOIC 150 mil
MCP6241	Linear Op Amps	1	550	70	5000	1.8-5.5	45	83	60	3	1	110	68	23	In/Out	Yes	0.3	8/PDIP 8/SOIC 150 mil 5/SOT-23 8/MSOP 5/SC-70 8/DFN
MCP6241R	Linear Op Amps	1	550	70	5000	1.8-5.5	45	83	60	3	1	110	68	23	In/Out	Yes	0.3	5/SOT-23
MCP6241U	Linear Op Amps	1	550	70	5000	1.8-5.5	45	83	60	3	1	110	68	23	In/Out	Yes	0.3	5/SOT-23
MCP6242	Linear Op Amps	2	550	70	5000	1.8-5.5	45	83	60	3	1	110	68	23	In/Out	Yes	0.3	8/PDIP 8/SOIC 150 mil 8/MSOP

Op Amps

Product	Description	# per Package	GBWP (kHz)	Iq Max (µA)	Vos Max (µV)	Operating Voltage Range (V)	Input Voltage Noise Density (nV/√Hz)	PSRR Min (dB)	CMRR Min (dB)	ΔVos/ΔTa (µV/°C)	Ib (pA)	Aol (dB)	PM (deg)	Isc (mA)	Rail-To-Rail	Unity Gain Stable	Slew Rate (V/µs)	Packages
MCP6244	Linear Op Amps	4	550	70	5000	1.8–5.5	45	83	60	3	1	110	68	23	In/Out	Yes	0.3	14/PDIP 14/TSSOP 14/SOIC 150 mil
MCP6061	Linear Op Amps	1	730	90	150	1.8–6.0	25	70	72	1.5	1	115	61	27	In/Out	Yes	0.25	8/SOIC 150 mil 5/SOT-23 8/TDFN
MCP6062	Linear Op Amps	2	730	90	150	1.8–6.0	25	70	72	1.5	1	115	61	27	In/Out	Yes	0.25	8/SOIC 150 mil 8/TDFN
MCP6064	Linear Op Amps	4	730	90	150	1.8–6.0	25	70	72	1.5	1	115	61	6	In/Out	Yes	0.25	14/TSSOP 14/SOIC 150 mil
MCP6001	Linear Op Amps	1	1000	170	4500	1.8–6.0	28	86	76	2	1	112	90	23	In/Out	Yes	0.6	5/SOT-23 5/SC-70
MCP6002	Linear Op Amps	2	1000	170	4500	1.8–6.0	28	86	76	2	1	112	90	23	In/Out	Yes	0.6	8/PDIP 8/SOIC 150 mil 8/MSOP 8/DFN
MCP6401	Linear Op Amps	1	1000	70	4500	1.8–6.0	28	63	63	2	1	110	65	5	In/Out	Yes	0.5	5/SOT-23 5/SC-70
MCP6401R	Linear Op Amps	1	1000	70	4500	1.8–6.0	28	63	63	2	1	110	65	5	In/Out	Yes	0.5	5/SOT-23
MCP6401U	Linear Op Amps	1	1000	70	4500	1.8–6.0	28	63	63	2	1	110	65	5	In/Out	Yes	0.5	5/SOT-23
MCP6004	Linear Op Amps	4	1000	170	4500	1.8–6.0	28	86	76	2	1	112	90	23	In/Out	Yes	0.6	14/PDIP 14/TSSOP 14/SOIC 150 mil
MCP6402	Linear Op Amps	2	1000	70	4500	1.8–6.0	28	63	63	2	1	110	65	5	In/Out	Yes	0.5	8/SOIC 150 mil 8/TDFN
MCP6406	Linear Op Amps	1	1000	70	4500	1.8–6.0	28	73	75	2.5	7	100	65	5	In/Out	Yes	0.5	5/SOT-23
MCP6404	Linear Op Amps	4	1000	70	4500	1.8–6.0	28	63	63	2	1	110	65	5	In/Out	Yes	0.5	14/TSSOP 14/SOIC 150 mil 14/SOIC
MCP6407	Linear Op Amps	2	1000	70	4500	1.8–6.0	28	73	75	2.5	7	100	65	5	In/Out	Yes	0.5	8/SOIC 150 mil
MCP6409	Linear Op Amps	4	1000	70	4500	1.8–6.0	28	73	75	2.5	7	100	65	5	In/Out	Yes	0.5	14/SOIC 150 mil 14/SOIC
MCP6V61U	Linear High Precision Op Amps-Chopper Stabilized	1	1000	130	8	1.8–5.5	26	117	120	0.015	1	125	60	23	In/Out	Yes	0.45	5/SOT-23 5/SC-70
MCP6V62	Linear High Precision Op Amps-Chopper Stabilized	2	1000	130	8	1.8–5.5	26	117	120	0.015	1	125	60	23	In/Out	Yes	0.45	8/MSOP 8/TDFN
MCP6V64	Linear High Precision Op Amps-Chopper Stabilized	4	1000	130	8	1.8–5.5	26	117	120	0.015	1	125	60	23	In/Out	Yes	0.45	14/TSSOP
MCP6071	Linear Op Amps	1	1200	170	150	1.8–6.0	19	87	89	1.5	1	115	57	7	In/Out	Yes	0.5	8/SOIC 150 mil 5/SOT-23 8/TDFN
MCP6H01	Linear Op Amps	1	1200	185	3500	3.5 - 16	30	102	100	2.5	10	115	57	50	Out	Yes	0.8	8/TDFN 8/SOIC 5/SOT-23 5/SC70
MCP6072	Linear Op Amps	2	1200	170	150	1.8–6.0	19	87	89	1.5	1	115	57	28	In/Out	Yes	0.5	8/SOIC 150 mil 8/TDFN
MCP6H02	Linear Op Amps	2	1200	185	3500	3.5 - 16	30	102	100	2.5	10	115	57	50	Out	Yes	0.8	8/TDFN 8/SOIC
MCP6H04	Linear Op Amps	4	1200	185	3500	3.5 - 16	35	102	100	2.5	10	115	57	50	Out	Yes	0.8	14/TSSOP 14/SOIC
MCP6074	Linear Op Amps	4	1200	170	150	1.8–6.0	19	87	89	1.5	1	115	57	28	In/Out	Yes	0.5	14/TSSOP 14/SOIC 150 mil
MCP6V01	Linear High Precision Op Amps-Auto Zero	1	1300	400	2	1.8–5.5	120	130	130	0.05	1	145	65	22	In/Out	Yes	0.5	8/SOIC 150 mil 8/TDFN
MCP6V06	Linear High Precision Op Amps-Auto Zero	1	1300	400	3	1.8–5.5	82	125	120	0.05	6	147	65	22	In/Out	Yes	0.5	8/SOIC 150 mil 8/TDFN
MCP6V03	Linear High Precision Op Amps-Auto Zero	1	1300	400	2	1.8–5.5	120	130	130	0.05	1	145	65	22	In/Out	Yes	0.5	8/SOIC 150 mil 8/TDFN
MCP6V08	Linear High Precision Op Amps-Auto Zero	1	1300	400	3	1.8–5.5	82	125	120	0.05	6	147	65	22	In/Out	Yes	0.5	8/SOIC 150 mil 8/TDFN
MCP6V02	Linear High Precision Op Amps-Auto Zero	2	1300	400	2	1.8–5.5	120	130	130	0.05	1	145	65	22	In/Out	Yes	0.5	8/SOIC 150 mil 8/DFN
MCP6V07	Linear High Precision Op Amps-Auto Zero	2	1300	400	3	1.8–5.5	82	125	120	0.05	6	147	65	22	In/Out	Yes	0.5	8/SOIC 150 mil 8/DFN
MCP6271	Linear Op Amps	1	2000	240	3000	2.0–6.0	20	70	65	1.7	1	110	65	25	In/Out	Yes	0.9	8/PDIP 8/SOIC 150 mil 5/SOT-23 8/MSOP
MCP6271R	Linear Op Amps	1	2000	240	3000	2.0–6.0	20	70	65	1.7	1	110	65	25	In/Out	Yes	0.9	5/SOT-23
MCP6273	Linear Op Amps	1	2000	240	3000	2.0–6.0	20	70	65	1.7	1	110	65	25	In/Out	Yes	0.9	8/PDIP 8/SOIC 150 mil 8/MSOP 6/SOT-23
MCP6471	Linear Op Amps	1	2000	200	1500	2.0–5.5	27	91	88	2.5	1	115	65	32	In/Out	Yes	1.1	5/SOT-23 5/SC-70
MCP6272	Linear Op Amps	2	2000	240	3000	2.0–6.0	20	70	65	1.7	1	110	65	25	In/Out	Yes	0.9	8/PDIP 8/SOIC 150 mil 8/MSOP
MCP6472	Linear Op Amps	2	2000	200	1500	2.0–5.5	27	91	88	2.5	1	115	65	32	In/Out	Yes	1.1	8/SOIC 150 mil 8/MSOP 8/TDFN
MCP6V71	Linear High Precision Op Amps-Chopper Stabilized	1	2000	260	8	2.0–5.5	21	115	117	0.015	1	126	60	26	In/Out	Yes	1	5/SOT-23
MCP6V71U	Linear High Precision Op Amps-Chopper Stabilized	1	2000	260	8	2.0–5.5	21	115	117	0.015	1	126	60	26	In/Out	Yes	1	5/SOT-23 5/SC-70
MCP6274	Linear Op Amps	4	2000	240	3000	2.0–6.0	20	70	65	1.7	1	110	65	25	In/Out	Yes	0.9	14/PDIP 14/TSSOP 14/SOIC 150 mil
MCP6V51	Linear High Precision Op Amps-Chopper Stabilized	1	2000	590	15	4.5–45	10.2	134	110	0.036	60	142	66	46	Out	Yes	1.2	8/MSOP 5/SOT-23
MCP6474	Linear Op Amps	4	2000	200	1500	2.0–5.5	27	92	88	2.5	1	115	65	32	In/Out	Yes	1.1	14/TSSOP 14/SOIC 150 mil
MCP6V26	Linear High Precision Op Amps-Auto Zero	1	2000	800	2	2.3–5.5	50	125	125	0.05	7	147	65	22	In/Out	Yes	1	8/SOIC 150 mil 8/MSOP 8/TDFN
MCP6V28	Linear High Precision Op Amps-Auto Zero	1	2000	800	2	2.3–5.5	50	125	125	0.05	7	147	65	22	In/Out	Yes	1	8/SOIC 150 mil 8/MSOP 8/TDFN
MCP6V72	Linear High Precision Op Amps-Chopper Stabilized	2	2000	260	8	2.0–5.5	21	115	117	0.015	1	126	60	26	In/Out	Yes	1	8/MSOP 8/TDFN
MCP6V27	Linear High Precision Op Amps-Auto Zero	2	2000	800	2	2.3–5.5	50	125	125	0.05	7	147	65	22	In/Out	Yes	1	8/SOIC 150 mil 8/MSOP 8/DFN
MCP6V74	Linear High Precision Op Amps-Chopper Stabilized	4	2000	260	8	2.0–5.5	21	115	117	0.015	1	126	60	26	In/Out	Yes	1	14/TSSOP
MCP6H71	Linear Op Amps	1	2700	600	4000	3.5–12	16	105	103	2.5	10	120	57	53	Out	Yes	2	8/TDFN 8/SOIC
MCP6H72	Linear Op Amps	2	2700	600	4000	3.5–12	16	105	103	2.5	10	120	57	53	Out	Yes	2	8/TDFN 8/SOIC
MCP6H74	Linear Op Amps	4	2700	600	4000	3.5–12	16	105	103	2.5	10	120	57	53	Out	Yes	2	14/TSSOP 14/SOIC

Op Amps																		
Product	Description	# per Package	GBWP (kHz)	Iq Max (µA)	Vos Max (µV)	Operating Voltage Range (V)	Input Voltage Noise Density (nV/√Hz)	PSRR Min (dB)	CMRR Min (dB)	ΔVos/ΔTa (µV/°C)	Ib (pA)	Aol (dB)	PM (deg)	Isc (mA)	Rail-To-Rail	Unity Gain Stable	Slew Rate (V/µs)	Packages
MCP601	Linear Op Amps	1	2800	325	2000	2.7-6.0	29	80	75	2.5	1	110	50	22	Out	Yes	2.3	8/PDIP 8/SOIC 150 mil 8/TSSOP 5/SOT-23
MCP603	Linear Op Amps	1	2800	325	2000	2.7-6.0	29	80	75	2.5	1	110	50	22	Out	Yes	2.3	8/PDIP 8/SOIC 150 mil 8/TSSOP 6/SOT-23
MCP602	Linear Op Amps	2	2800	325	2000	2.7-6.0	29	80	75	2.5	1	110	50	22	Out	Yes	2.3	8/PDIP 8/SOIC 150 mil 8/TSSOP
MCP604	Linear Op Amps	4	2800	325	2000	2.7-6.0	29	80	75	2.5	1	110	50	22	Out	Yes	2.3	14/PDIP 14/TSSOP 14/SOIC 150 mil
MCP6286	Linear Op Amps	1	3500	720	1500	2.2 - 5.5	5.4	80	76	1	1	120	60	20	Out	Yes	2	5/SOT-23
MCP6481	Linear Op Amps	1	4000	400	1500	2.2 - 5.5	23	91	89	2.5	1	115	60	36	In/Out	Yes	2.7	5/SOT-23 5/SC-70
MCP6482	Linear Op Amps	2	4000	400	1500	2.2 - 5.5	23	91	88	2.5	1	115	65	36	In/Out	Yes	2.7	8/SOIC 150 mil 8/MSOP 8/TDFN
MCP6484	Linear Op Amps	4	4000	400	1500	2.2 - 5.5	23	91	89	2.5	1	115	60	36	In/Out	Yes	2.7	14/TSSOP 14/SOIC 150 mil
MCP6281	Linear Op Amps	1	5000	570	3000	2.2 - 6.0	16	70	65	1.7	1	110	65	25	In/Out	Yes	2.5	8/PDIP 8/SOIC 150 mil 5/SOT-23 8/MSOP
MCP6281R	Linear Op Amps	1	5000	570	3000	2.2 - 6.0	16	70	65	1.7	1	110	65	25	In/Out	Yes	2.5	5/SOT-23
MCP6283	Linear Op Amps	1	5000	570	3000	2.2 - 6.0	16	70	65	1.7	1	110	65	25	In/Out	Yes	2.5	8/PDIP 8/SOIC 150 mil 8/MSOP 6/SOT-23
MCP6282	Linear Op Amps	2	5000	570	3000	2.2 - 6.0	16	70	65	1.7	1	110	65	25	In/Out	Yes	2.5	8/PDIP 8/SOIC 150 mil 8/MSOP
MCP6285	Linear Op Amps	2	5000	570	3000	2.2 - 6.0	16	70	65	1.7	1	110	65	25	In/Out	Yes	2.5	8/PDIP 8/SOIC 150 mil 8/MSOP
MCP6V81	Linear High Precision Op Amps-Chopper Stabilized	1	5000	770	9	2.2 - 5.5	13	117	118	0.02	2	126	60	40	In/Out	Yes	4	5/SOT-23
MCP6V81U	Linear High Precision Op Amps-Chopper Stabilized	1	5000	770	9	2.2 - 5.5	13	117	118	0.02	2	126	60	40	In/Out	Yes	4	5/SOT-23 5/SC-70
MCP6284	Linear Op Amps	4	5000	570	3000	2.2 - 6.0	16	70	65	1.7	1	110	65	25	In/Out	Yes	2.5	14/PDIP 14/TSSOP 14/SOIC 150 mil
MCP6V82	Linear High Precision Op Amps-Chopper Stabilized	2	5000	770	9	2.2 - 5.5	13	117	118	0.02	2	126	60	40	In/Out	Yes	4	8/MSOP 8/TDFN
MCP6V84	Linear High Precision Op Amps-Chopper Stabilized	4	5000	770	9	2.2 - 5.5	13	117	118	0.02	2	126	60	40	In/Out	Yes	4	14/TSSOP
MCP6H81	Linear Op Amps	1	5500	1300	4000	3.5 - 12	12	102	100	2.5	10	120	60	55	Out	Yes	5	8/TDFN 8/SOIC
MCP6H82	Linear Op Amps	2	5500	1300	4000	3.5 - 12	12	102	100	2.5	10	120	60	55	Out	Yes	5	8/TDFN 8/SOIC
MCP6H84	Linear Op Amps	4	5500	1300	4000	3.5 - 12	12	102	100	2.5	10	120	60	55	Out	Yes	5	14/TSSOP 14/SOIC
MCP6491	Linear Op Amps	1	7500	800	1500	2.4 - 5.5	14	90	88	2.5	1	115	57	40	In/Out	Yes	6	5/SOT-23 5/SC-70
MCP6492	Linear Op Amps	2	7500	800	1500	2.4 - 5.5	14	90	88	2.5	1	115	57	40	In/Out	Yes	6	8/SOIC 150 mil 8/MSOP 8/TDFN
MCP6494	Linear Op Amps	4	7500	800	1500	2.4 - 5.5	14	90	88	2.5	1	115	57	40	In/Out	Yes	6	14/TSSOP 14/SOIC 150 mil
MCP6291	Linear Op Amps	1	10000	1300	3000	2.4 - 6.0	8.7	70	65	1.7	1	110	65	25	In/Out	Yes	7	8/PDIP 8/SOIC 150 mil 5/SOT-23 8/MSOP
MCP6291R	Linear Op Amps	1	10000	1300	3000	2.4 - 6.0	8.7	70	65	1.7	1	110	65	25	In/Out	Yes	7	5/SOT-23
MCP6293	Linear Op Amps	1	10000	1300	3000	2.4 - 6.0	8.7	70	65	1.7	1	110	65	25	In/Out	Yes	7	8/PDIP 8/SOIC 150 mil 8/MSOP 6/SOT-23
MCP6292	Linear Op Amps	2	10000	1300	3000	2.4 - 6.0	8.7	70	65	1.7	1	110	65	25	In/Out	Yes	7	8/PDIP 8/SOIC 150 mil 8/MSOP
MCP6295	Linear Op Amps	2	10000	1300	3000	2.4 - 6.0	8.7	70	65	1.7	1	110	65	25	In/Out	Yes	7	8/PDIP 8/SOIC 150 mil 8/MSOP
MCP6021	Linear Op Amps	1	10000	1350	250	2.5 - 5.5	8.7	74	74	3.5	1	110	65	30	In/Out	Yes	7	8/PDIP 8/SOIC 150 mil 8/TSSOP 5/SOT-23 8/MSOP
MCP6021R	Linear Op Amps	1	10000	1350	250	2.5 - 5.5	8.7	74	74	3.5	1	110	65	30	In/Out	Yes	7	5/SOT-23
MCP6H91	Linear Op Amps	1	10000	2800	4000	3.5 - 12	23	94	98	2.5	10	115	60	43	Out	Yes	10	8/SOIC 150 mil 8/TDFN 8/SOIC
MCP6023	Linear Op Amps	1	10000	1350	250	2.5 - 5.5	8.7	74	74	3.5	1	110	65	30	In/Out	Yes	7	8/PDIP 8/SOIC 150 mil 8/TSSOP
MCP6022	Linear Op Amps	2	10000	1350	250	2.5 - 5.5	8.7	74	74	3.5	1	110	65	30	In/Out	Yes	7	8/PDIP 8/SOIC 150 mil 8/TSSOP
MCP6H92	Linear Op Amps	2	10000	2800	4000	3.5 - 12	23	94	98	2.5	10	115	60	43	Out	Yes	10	8/TDFN 8/SOIC
MCP6V91	Linear High Precision Op Amps-Chopper Stabilized	1	10000	1600	9	2.4 - 5.5	11	117	118	0.017	2	126	60	40	In/Out	Yes	9.5	5/SOT-23
MCP6V91U	Linear High Precision Op Amps-Chopper Stabilized	1	10000	1600	9	2.4 - 5.5	11	117	118	0.017	2	126	60	40	In/Out	Yes	9.5	5/SOT-23 5/SC-70
MCP6294	Linear Op Amps	4	10000	1300	3000	2.4 - 6.0	8.7	70	65	1.7	1	110	65	25	In/Out	Yes	7	14/PDIP 14/TSSOP 14/SOIC 150 mil
MCP6H94	Linear Op Amps	4	10000	2800	4000	3.5 - 12	23	94	98	2.5	10	115	60	43	Out	Yes	10	14/TSSOP 14/SOIC
MCP6024	Linear Op Amps	4	10000	1350	250	2.5 - 5.5	8.7	74	74	3.5	1	110	65	30	In/Out	Yes	7	14/PDIP 14/TSSOP 14/SOIC 150 mil
MCP6V92	Linear High Precision Op Amps-Chopper Stabilized	2	10000	1600	9	2.4 - 5.5	11	117	118	0.017	2	126	60	40	In/Out	Yes	9.5	8/MSOP 8/TDFN
MCP6V94	Linear High Precision Op Amps-Chopper Stabilized	4	10000	1600	9	2.4 - 5.5	11	117	118	0.017	2	126	60	40	In/Out	Yes	9.5	14/TSSOP
MCP621S	Linear Op Amps	1	20000	3600	200	2.5 - 5.5	13	61	65	2	5	117	60	70	Out	Yes	10	5/SOT-23
MCP623	Linear Op Amps	1	20000	3600	200	2.5 - 5.5	13	61	65	2	5	117	60	70	Out	Yes	10	6/SOT-23
MCP621	Linear Op Amps	1	20000	3600	200	2.5 - 5.5	13	61	65	2	5	117	60	70	Out	Yes	10	8/SOIC 150 mil 8/TDFN
MCP622	Linear Op Amps	2	20000	3600	200	2.5 - 5.5	13	61	65	2	5	117	60	70	Out	Yes	10	8/SOIC 150 mil 8/DFN
MCP625	Linear Op Amps	2	20000	3600	200	2.5 - 5.5	13	61	65	2	5	117	60	70	Out	Yes	10	10/DFN 10/MSOP
MCP624	Linear Op Amps	4	20000	3600	200	2.5 - 5.5	13	61	65	2	5	117	60	70	Out	Yes	10	14/TSSOP 14/SOIC 150 mil
MCP629	Linear Op Amps	4	20000	3600	200	2.5 - 5.5	13	61	65	2	5	117	60	70	Out	Yes	10	16/QFN

Op Amps																			
Product	Description	# per Package	GBWP (kHz)	Iq Max (µA)	Vos Max (µV)	Operating Voltage Range (V)	Input Voltage Noise Density (nV/√Hz)	PSRR Min (dB)	CMRR Min (dB)	ΔVos/ΔTa (µV/°C)	Ib (pA)	Aol (dB)	PM (deg)	Isc (mA)	Rail-To-Rail	Unity Gain Stable	Slew Rate (V/µS)	Packages	
MCP631	Linear Op Amps	1	24000	3600	8000	2.5 - 5.5	10	61	63	2	4	115	65	70	Out	Yes	10	8/SOIC 150 mil 5/SOT-23 8/TDFN	
MCP633	Linear Op Amps	1	24000	3600	8000	2.5 - 5.5	10	61	63	2	4	115	65	70	Out	Yes	10	8/SOIC 150 mil 6/SOT-23	
MCP632	Linear Op Amps	2	24000	3600	8000	2.5 - 5.5	10	61	63	2	4	115	65	70	Out	Yes	10	8/SOIC 150 mil 8/DFN	
MCP635	Linear Op Amps	2	24000	3600	8000	2.5 - 5.5	10	61	63	2	4	115	65	70	Out	Yes	10	10/DFN 10/MSOP	
MCP634	Linear Op Amps	4	24000	3600	8000	2.5 - 5.5	10	61	63	2	4	115	65	70	Out	Yes	10	14/TSSOP 14/SOIC 150 mil	
MCP639	Linear Op Amps	4	24000	3600	8000	2.5 - 5.5	10	61	63	2	4	115	65	70	Out	Yes	10	16/QFN	
MCP651S	Linear Op Amps	1	50000	9000	200	2.5 - 5.5	7.5	61	66	2.5	6	114	65	95	Out	Yes	30	5/SOT-23	
MCP653	Linear Op Amps	1	50000	9000	200	2.5 - 5.5	7.5	61	66	2.5	6	114	65	95	Out	Yes	30	6/SOT-23	
MCP651	Linear Op Amps	1	50000	9000	200	2.5 - 5.5	7.5	61	66	2.5	6	114	65	95	Out	Yes	30	8/SOIC 150 mil 8/TDFN	
MCP652	Linear Op Amps	2	50000	9000	200	2.5 - 5.5	7.5	61	66	2.5	6	114	65	95	Out	Yes	30	8/SOIC 150 mil 8/DFN	
MCP655	Linear Op Amps	2	50000	9000	200	2.5 - 5.5	7.5	61	66	2.5	6	114	65	95	Out	Yes	30	10/DFN 10/MSOP	
MCP654	Linear Op Amps	4	50000	9000	200	2.5 - 5.5	7.5	61	66	2.5	6	114	65	95	Out	Yes	30	14/TSSOP 14/SOIC 150 mil	
MCP659	Linear Op Amps	4	50000	9000	200	2.5 - 5.5	7.5	61	66	2.5	6	114	65	95	Out	Yes	30	16/QFN	
MCP661	Linear Op Amps	1	60000	9000	8000	2.5 - 5.5	6.8	61	66	2	6	126	65	90	Out	Yes	32	8/SOIC 150 mil 5/SOT-23 8/TDFN	
MCP663	Linear Op Amps	1	60000	9000	8000	2.5 - 5.5	6.8	61	66	2	6	126	65	90	Out	Yes	32	8/SOIC 150 mil 6/SOT-23	
MCP662	Linear Op Amps	2	60000	9000	8000	2.5 - 5.5	6.8	61	66	2	6	126	65	90	Out	Yes	32	8/SOIC 150 mil 8/MSOP 8/DFN	
MCP665	Linear Op Amps	2	60000	9000	8000	2.5 - 5.5	6.8	61	66	2	6	126	65	90	Out	Yes	32	10/DFN 10/MSOP	
MCP660	Linear Op Amps	3	60000	9000	8000	2.5 - 5.5	6.8	61	66	2	6	126	65	90	Out	Yes	32	14/TSSOP 14/SOIC 150 mil 16/QFN	
MCP664	Linear Op Amps	4	60000	9000	8000	2.5 - 5.5	6.8	61	66	2	6	126	65	90	Out	Yes	32	14/TSSOP 14/SOIC 150 mil	
MCP669	Linear Op Amps	4	60000	9000	8000	2.5 - 5.5	6.8	61	66	2	6	126	65	90	Out	Yes	32	16/QFN	

Comparators							
Product	Number Per Package	Typical Propagation Delay (ns)	Iq Typical (µA)	Vos Max (µV)	Operating Voltage Range (V)	Temp. Range (°C)	Packages
MCP6541	1	4000	1	7000	1.6-5.5	-40° C to +125° C	5/SC-70 5/SOT-23 8/MSOP 8/PDIP 8/SOIC 150 mil
MCP6541R	1	4000	1	7000	1.6-5.5	-40° C to +125° C	5/SOT-23
MCP6541U	1	4000	1	7000	1.6-5.5	-40° C to +125° C	5/SC-70 5/SOT-23
MCP6542	2	4000	1	7000	1.6-5.5	-40° C to +125° C	8/MSOP 8/PDIP 8/SOIC 150 mil
MCP6543	1	4000	1	7000	1.6-5.5	-40° C to +125° C	8/MSOP 8/PDIP 8/SOIC 150 mil
MCP6544	4	4000	1	7000	1.6-5.5	-40° C to +125° C	14/PDIP 14/SOIC 150 mil 14/TSSOP
MCP6546	1	4000	1	7000	1.6-5.5	-40° C to +125° C	5/SC-70 5/SOT-23 8/MSOP 8/PDIP 8/SOIC 150 mil
MCP6546R	1	4000	1	7000	1.6-5.5	-40° C to +125° C	5/SOT-23
MCP6546U	1	4000	1	7000	1.6-5.5	-40° C to +125° C	5/SC-70 5/SOT-23
MCP6547	2	4000	1	7000	1.6-5.5	-40° C to +125° C	8/MSOP 8/PDIP 8/SOIC 150 mil
MCP6548	1	4000	1	7000	1.6-5.5	-40° C to +125° C	8/MSOP 8/PDIP 8/SOIC 150 mil
MCP6549	4	4000	1	7000	1.6-5.5	-40° C to +125° C	14/PDIP 14/SOIC 150 mil 14/TSSOP
MCP65R41	1	4000	2.5	10000	1.8-5.5	-40° C to +125° C	6/SOT-23
MCP65R46	1	4000	2.5	10000	1.8-5.5	-40° C to +125° C	6/SOT-23
MCP6561	1	47	100	10000	1.8-5.5	-40° C to +125° C	5/SC-70 5/SOT-23
MCP6562	2	47	100	10000	1.8-5.5	-40° C to +125° C	8/MSOP 8/SOIC 150 mil
MCP6564	4	47	100	10000	1.8-5.5	-40° C to +125° C	14/SOIC 150 mil 14/TSSOP
MCP6566	1	47	100	10000	1.8-5.5	-40° C to +125° C	5/SC-70 5/SOT-23
MCP6567	2	47	100	10000	1.8-5.5	-40° C to +125° C	8/MSOP 8/SOIC 150 mil
MCP6569	4	47	100	10000	1.8-5.5	-40° C to +125° C	14/SOIC 150 mil 14/TSSOP

Power Management - System Super											
Product	Product Type	Watchdog Timer	Manual Reset	Operating Temp. Range (°C)	Vcc Range (V)	Nominal Reset Voltage (V)	Reset Type	Output	Typical Reset Pulse Width (ms)	Typical Supply Current (μA)	Packages
MCP103	Supervisor	No	No	-40 to +125	1.0-5.5	1.95 (I-Temp), 2.4, 2.7, 3, 3.15, 4.5, 4.75	Active Low	Push-Pull	120	1	3/SC-70 3/SOT-23
MCP111	Detector	No	No	-40 to +125	1.0-5.5	1.87 (I-Temp), 2.29, 2.59, 2.86, 2.87, 3.03, 4.31, 4.56	Active Low	Open-Drain	0	1	3/SC-70 3/SOT-23 3/SOT-89 3/TO-92 5/SOT-23
MCP121	Supervisor	No	No	-40 to +125	1.0-5.5	1.95 (I-Temp), 2.4, 2.7, 3, 3.15, 4.5, 4.75	Active Low	Open-Drain	120	1	3/SC-70 3/SOT-23 3/TO-92 8/SOIC 150 mil
MCP131	Supervisor	No	No	-40 to +125	1.0-5.5	1.95 (I-Temp), 2.4, 2.7, 3, 3.15, 4.5, 4.75	Active Low	Open-Drain	120	1	3/SC-70 3/SOT-23 3/TO-92 8/SOIC 150 mil
MCP1316	Supervisor	Yes	Yes	-40 to +125	1.0-5.5	2.9, 4.6, (2.0-2.4V=I-Temp, 2.4-4.7=Ext)	Active Low	Push-Pull	200	1	5/SOT-23
MCP1316M	Supervisor	Yes	Yes	-40 to +125	1.0-5.5	2.9, 4.6, (2.0-2.4V=I-Temp, 2.4-4.7=Ext)	Active Low	Open-Drain	200	1	5/SOT-23
MCP1317	Supervisor	Yes	Yes	-40 to +125	1.0-5.5	2.9, 4.6, (2.0-2.4V=I-Temp, 2.4-4.7=Ext)	Active High	Push-Pull	200	1	5/SOT-23
MCP1318	Supervisor	Yes	No	-40 to +125	1.0-5.5	2.9, 4.6, (2.0-2.4V=I-Temp, 2.4-4.7=Ext)	Active Low/High or High/Low	Dual Output Open-Drain and/or Push-Pull	200	1	5/SOT-23
MCP1318M	Supervisor	Yes	No	-40 to +125	1.0-5.5	2.9, 4.6, (2.0-2.4V=I-Temp, 2.4-4.7=Ext)	Active Low/High or High/Low	Dual Output Open-Drain and/or Push-Pull	200	1	5/SOT-23
MCP1319	Supervisor	No	Yes	-40 to +125	1.0-5.5	2.9, 4.6, (2.0-2.4V=I-Temp, 2.4-4.7=Ext)	Active Low/High or High/Low	Dual Output Open-Drain and/or Push-Pull	200	1	5/SOT-23
MCP1319M	Supervisor	No	Yes	-40 to +125	1.0-5.5	2.9, 4.6, (2.0-2.4V=I-Temp, 2.4-4.7=Ext)	Active Low/High or High/Low	Dual Output Open-Drain and/or Push-Pull	200	1	5/SOT-23
MCP1320	Supervisor	Yes	Yes	-40 to +125	1.0-5.5	2.9, 4.6, (2.0-2.4V=I-Temp, 2.4-4.7=Ext)	Active Low	Open-Drain	200	1	5/SOT-23
MCP1321	Supervisor	Yes	No	-40 to +125	1.0-5.5	2.9, 4.6, (2.0-2.4V=I-Temp, 2.4-4.7=Ext)	Active Low/High or High/Low	Dual Output Open-Drain and/or Push-Pull	200	1	5/SOT-23
MCP1322	Supervisor	No	Yes	-40 to +125	1.0-5.5	2.9, 4.6, (2.0-2.4V=I-Temp, 2.4-4.7=Ext)	Active Low/High or High/Low	Dual Output Open-Drain and/or Push-Pull	200	1	5/SOT-23
MCP809	Supervisor	No	No	-40 to 85	1.0-5.5	2.7, 3.0, 3.15, 4.5, 4.6, 4.75, 4.85	Active Low	Push-Pull	350	45	3/SOT-23
TC1270A	Supervisor	No	Yes	-40 to +125	1.0-5.5	2.7, 3, 3.15, 4.5, 4.75	Active Low	Push-Pull	280	7	4/SOT-143 5/SOT-23
TC1270AN	Supervisor	No	Yes	-40 to +125	1.0-5.5	2.7, 3, 3.15, 4.5, 4.75	Active Low	Open-Drain	280	7	4/SOT-143 5/SOT-23
TC1271A	Supervisor	No	Yes	-40 to +125	1.0-5.5	2.7, 3, 3.15, 4.5, 4.75	Active High	Push-Pull	280	7	4/SOT-143 5/SOT-23

Temperature Sensors								
Product	Description	Max. Accuracy at 25°	Temp. Range (°C)	Vcc Range (V)	Max. Supply Current (μA)	Resolution (bits)	Alert/THERM	Packages
MCP9800	SMBus/I ² C Temperature Sensor	1	-55 to +125	+2.7 to +5.5	200	9-12	1	5/SOT-23
MCP9801	SMBus/I ² C Temperature Sensor	1	-55 to +125	+2.7 to +5.5	200	9-12	1	8/MSOP 8/SOIC 150 mil
MCP9802	SMBus/I ² C Temperature Sensor	1	-55 to +125	+2.7 to +5.5	200	9-12	1	5/SOT-23
MCP9803	SMBus/I ² C Temperature Sensor	1	-55 to +125	+2.7 to +5.5	200	9-12	1	8/MSOP 8/SOIC 150 mil
MCP9804	SMBus/I ² C Temperature Sensor	1	-40 to +125	+2.7 to +5.5	200	12	1	8/DFN 8/MSOP
MCP9805	SMBus/I ² C Temperature Sensor	3	-40 to +125	+3.0 to +3.6	200	10	1	8/DFN 8/TSSOP
MCP9808	SMBus/I ² C Temperature Sensor	0.5	-40 to +125	+2.7 to +5.5	200	12	1	8/DFN 8/MSOP
MCP9843	SMBus/I ² C Temperature Sensor	2	-40 to +125	+2.7 to +3.6	500	11	1	8/DFN 8/TDFN 8/TSSOP
MCP98242	SMBus/I ² C Temperature Sensor with EEPROM	3	-40 to +125	+3.0 to +3.6	200	10	1	8/DFN 8/TDFN 8/TSSOP 8/UDFN
MCP98243	SMBus/I ² C Temperature Sensor with EEPROM	3	-40 to +125	+3.0 to +3.6	200	11	1	8/DFN 8/TDFN 8/TSSOP 8/UDFN
MCP98244	SMBus/I ² C Temperature Sensor with EEPROM	1	-40 to +125	+2.2 to +3.6	500	11	-	8/TDFN
MCP9844	SMBus/I ² C Temperature Sensor with EEPROM	1	-40 to +125	+1.7 to +3.6	500	-	1	8/TDFN
MCP9501	Temperature Switch	4	-40 to +125	+2.7 to +5.5	25	-	No	5/SOT-23
MCP9502	Temperature Switch	4	-40 to +125	+2.7 to +5.5	25	-	No	5/SOT-23

Temperature Sensors

Product	Description	Max. Accuracy at 25°	Temp. Range (°C)	V _{CC} Range (V)	Max. Supply Current (μA)	Resolution (bits)	Alert/THERM	Packages
MCP9503	Temperature Switch	4	–40 to +125	+2.7 to +5.5	25	–	No	5/SOT-23
MCP9504	Temperature Switch	4	–40 to +125	+2.7 to +5.5	25	–	No	5/SOT-23
MCP9509	Temperature Switch with Resistor Set	–	–40 to +125	+2.7 to +5.5	30	–	No	5/SOT-23
MCP9510	Temperature Switch with Resistor Set	–	–40 to +125	+2.7 to +5.5	50	–	No	6/SOT-23
MCP9700	Voltage Temperature Sensor	4	–40 to +150	+2.3 to +5.5	6	–	No	3/SOT-23 3/TO-92 5/SC-70
MCP9700A	Voltage Temperature Sensor	2	–40 to +150	+2.3 to +5.5	6	–	No	3/SOT-23 3/TO-92 5/SC-70
MCP9701	Voltage Temperature Sensor	4	–40 to +125	+3.1 to +5.5	6	–	No	3/SOT-23 3/TO-92 5/SC-70
MCP9701A	Voltage Temperature Sensor	2	–40 to +125	+3.1 to +5.5	6	–	No	3/SOT-23 3/TO-92 5/SC-70
TC1047A	Voltage Temperature Sensor	2	–40 to +125	+2.5 to +5.5	35	–	No	3/SOT-23

Linear Regulators

Product	# of Out	I _{OUT} #1	I _{OUT} #2	I _{OUT} (mA)	V _{IN} Min (V)	V _{IN} Max (V)	V _{OUT} (V)	Voltage Drop Typ (mV)	I _{GND} Typ (μA)	Tol Type %	Noise (μV) rms	PSRR 1 kHz (dB)	Load Dump	Rev Bat	Packages
MAQ5281	1	25	–	25	6	120	3.3, 5.0, Adj	2000	6	±3		90	Yes		8/MSOP
MAQ5282	1	50	–	50	6	120	3.3, 5.0, Adj	2000	6			80	Yes		8/MSOP
MAQ5283	1	150	–	150	6	120	3.3, 5.0, Adj	1800	8	±3		75	Yes		8/SOIC
MAQ5300	1	300	–	300	2.3	5.5	1.5, 1.8, 2.5, 2.8, 2.85, 3.0, 3.3	100	85		120	65			6/VDFN
MCP1700	1	250	–	250	2.3	6	1.8, 2.5, 3.0, 3.3, 5.0	300	1.6	±0.4		44			3/SOT-23 3/SOT-89 3/TO-92 6/DFN
MCP1702	1	250	–	250	2.7	13.2	1.2, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3, 4.0, 5.0	625	2	±0.4		44			3/SOT-23A 3/SOT-89 3/TO-92
MCP1703	1	–	–	250	0	16	1.2, 1.5, 1.8, 2.5, 3.0, 3.3, 4.0, 5.0	625	2	±0.4					3/SOT-223 3/SOT-23A 3/SOT-89 3/TO-92 8/DFN
MCP1703A	1	250	–	250	2.7	16	1.2, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3, 4.0, 5.0	625	2	±0.4		35			3/SOT-223 3/SOT-23A 3/SOT-89 8/DFN
MCP1725	1	500	–	500	2.3	6	0.8, 1.2, 1.8, 2.5, 3.0, 3.3, 5.0	210	120	±0.5		60			8/DFN 8/SOIC 150 mil
MCP1726	1	1000	–	1000	2.3	6	0.8, 1.2, 1.8, 2.5, 3.0, 3.3, 5.0, Adj	220	140	±2		54			8/DFN 8/SOIC 150 mil
MCP1727	1	1500	–	1500	2.3	6	0.8, 1.2, 1.8, 2.5, 3.0, 3.3, 5.0	330	120	±0.5		60			8/DFN 8/SOIC 150 mil
MCP1754	1	150	–	150	3.6	16	1.8, 2.5, 2.8, 3.0, 3.3, 4.0, 5.0	300	56	±0.4		72			5/SOT-223 5/SOT-23 8/DFN
MCP1754S	1	150	–	150	3.6	16	1.8, 2.5, 2.8, 3.0, 3.3, 4.0, 5.0	300	56	±0.2		72			3/SOT-223 3/SOT-23A 3/SOT-89 8/DFN
MCP1755	1	300	–	300	3.6	16	1.8, 2.5, 2.8, 3.0, 3.3, 4.0, 5.0	300	68	±0.5		80			3/SOT-223 5/SOT-223 5/SOT-23 8/DFN
MCP1755S	1	300	–	300	3.6	16	1.8, 2.5, 2.8, 3.0, 3.3, 4.0, 5.0	300	68	±0.5		80			3/SOT-223 8/DFN
MCP1790	1	70	–	70	6	30	3.0, 3.3, 5.0	700	70	±0.2		90 @ 100 Hz	Yes		3/DDPAK 3/SOT-223
MCP1791	1	70	–	70	6	30	3.0, 3.3, 5.0	700	70	±0.2		90	Yes		5/DDPAK 5/SOT-223
MCP1824	1	300	–	300	2.1	6	0.8, 1.2, 1.8, 2.5, 3.0, 3.3, 5.0	200	120	±0.4		55			5/SOT-223 5/SOT-23
MCP1824S	1	300	–	300	2.1	6	0.8, 1.2, 1.8, 2.5, 3.0, 3.3, 5.0	200	120	±0.4		55			3/SOT-223
MCP1825	1	500	–	500	2.1	6	0.8, 1.2, 1.8, 2.5, 3.0, 3.3, 5.0	210	120	±0.5		60			5/DDPAK 5/SOT-223 5/TO-220
MCP1825S	1	500	–	500	2.1	6	0.8, 1.2, 1.8, 2.5, 3.0, 3.3, 5.0	300	120	±0.5		60			3/DDPAK 3/SOT-223 3/TO-220
MCP1826	1	1000	–	1000	2.3	6	0.8, 1.2, 1.8, 2.5, 3.0, 3.3, 5.0	250	120	±0.5		60			5/DDPAK 5/SOT-223 5/TO-220
MCP1826S	1	1000	–	1000	2.3	6	0.8, 1.2, 1.8, 2.5, 3.0, 3.3, 5.0	250	120	±0.5		60			3/DDPAK 3/SOT-223 3/TO-220
MCP1827	1	1500	–	1500	2.3	6	0.8, 1.2, 1.8, 2.5, 3.0, 3.3, 5.0	330	120	±0.5		60			5/DDPAK 5/TO-220
MCP1827S	1	1500	–	1500	2.3	6	0.8, 1.2, 1.8, 2.5, 3.0, 3.3, 5.0	330	120	±0.5		60			3/DDPAK 3/TO-220

Linear Regulators															
Product	# of Out	I _{OUT} #1	I _{OUT} #2	I _{OUT} (mA)	V _{IN} Min (V)	V _{IN} Max (V)	V _{OUT} (V)	Voltage Drop Typ (mV)	IGND Typ (μA)	Tol Type %	Noise (μV) rms	PSRR 1 kHz (dB)	Load Dump	Rev Bat	Packages
MIC47050	1	500	–	500	1	3.6	1.2, 1.8, Adj	44	6	±0.5	63	50			6/UDFN 6/VDFN
MIC5233	1	100	–	100	2.3	36	1.8, 2.5, 3.0, 3.3, 5.0, Adj	270	18	±1		50		Yes	3/SOT-223 5/SOT-23
TC1014	1	–	–	50	2.7	6	1.8, 2.5, 2.7, 2.8, 2.85, 3.0, 3.3, 3.6, 4.0, 5.0	85	50	±0.5		64			5/SOT-23
TC1015	1	100	–	100	2.7	6	1.8, 2.5, 2.6, 2.7, 2.8, 2.85, 3.0, 3.3, 3.6, 4.0, 5.0	180	50	±0.5		64			5/SOT-23
TC1016	1	80	–	80	2.7	6	1.8, 2.7, 2.8, 3.0	150	53	±0.5		58			5/SC-70 5/SOT-23
TC1017	1	150	–	150	2.7	6	1.8, 2.6, 2.7, 2.8, 2.85, 2.9, 3.0, 3.3, 4.0	285	53	±0.5		58			5/SC-70 5/SOT-23
TC1070	1	50	–	50	2.7	6	1.23–5.5	85	50			64			5/SOT-23
TC1071	1	100	–	100	2.7	6	1.23–5.5	180	50	±0.5		64			5/SOT-23
TC1185	1	150	–	150	2.7	6	1.8, 2.5, 2.7, 2.8, 2.85, 3.0, 3.3, 3.6, 4.0, 5.0	270	50	±0.5		64			5/SOT-23
TC1186	1	150	–	150	2.7	6	1.8, 2.5, 2.7, 2.8, 2.85, 3.0, 3.3, 3.6, 4.0, 5.0	270	50	±0.5		64			5/SOT-23
TC1187	1	150	–	150	2.7	6	1.23–5.5	270	50			64			5/SOT-23
TC1262	1	500	–	500	2.7	6	2.5, 2.8, 3.0, 3.3, 5.0	350	80	±0.5		64			3/DDPAK 3/SOT-223 3/TO-220
TC1264	1	800	–	800	2.7	6	1.8, 2.5, 3.0, 3.3	450	80	±0.5		64			3/DDPAK 3/SOT-223 3/TO-220
TC1302A	2	300	150	300	2.7	6	1.5–3.3	150	103	±0.5		58			8/DFN 8/MSOP
TC1302B	2	300	150	300	2.7	6	1.5–3.3	150	114	±0.5		58			8/DFN 8/MSOP
TC2185	1			150	0	6	1.8, 2.7, 2.8, 3.0, 3.3	140	55	±0.4					5/SOT-23
TC2186	1			150	0	6	1.8, 2.7, 2.8, 3.0, 3.3	140	55	±0.4					5/SOT-23

Switching Regulators														
Product	Regulator Type	Input Voltage Range (V)	Output Voltage Range (V)	Output Current (mA) Max	Quiescent Current (mA) type	Switching Frequency (kHz)	Synchronous Rectifier	Operating Temperature Range (°C)	Vfb (V)	Duty Cycle Max (%)	SHUTDOWN Current (µA) (Typ)	Light Load Efficiency Mode	Packages	
MCP1665	Step Up (Boost)	2.7–5	–32	0	0.25	500	No	–40 to +125	1.2	90	0.4	Yes	10/VQFN	
MCP1624	Step Up (Boost)	0.65–5.5	2–5.5	175	0.019	500	Yes	–40 to +85	1.21	90	0.7	Yes	6/SOT-23 8/DFN	
MCP1661	Step Up (Boost)	2.4–5.5	–32	200	0.25	500	No	–40 to +125	1.227	90	0.2	No	5/SOT-23 8/TDFN	
MCP1662	Step Up (Boost)	2.4–5.5	–32	200	0.25	500	No	–40 to +125	0.3	90	0.02	No	5/SOT-23 8/TDFN	
MCP16251	Step Up (Boost)	0.82–5.5	1.8–5.5	250	0.004	500	Yes	–40 to +85	1.23	91	0.6	Yes	6/SOT-23 8/TDFN	
MCP1664	Step Up (Boost)	2.4–5.5	–32	300	0.25	500	No	–40 to +125	0.3	90	0.04	No	5/SOT-23 8/TDFN	
MCP1642	Step Up (Boost)	0.65–5.5	1.8–5.5	350	0.4	1000	Yes	–40 to +85	1.21	90	1	No	8/MSOP 8/DFN	
MCP1663	Step Up (Boost)	2.4–5.5	–32	375	0.25	500	No	–40 to +125	1.227	90	0.3	No	5/SOT-23 8/TDFN	
MCP1602	Step Down (Buck)	2.7–5.5	0.8–4.5	500	0.045	2000	Yes	–40 to +85	0.8		0.05	Yes	8/MSOP 8/DFN	
MCP1643	Step Up (Boost)	0.5–5	0.6–5	550	0.03	1000	Yes	–40 to +85	0.12	90	1.2	No	8/MSOP 8/DFN	
MCP16301	Step Down (Buck)	4–30	2–15	600	2	500	No	–40 to +85	0.8	95	7	No	6/SOT-23	
MCP16301H	Step Down (Buck)	4.7–36	2–15	600	2	500	No	–40 to +125	0.8	95	7	No	6/SOT-23	
MCP1623	Step Up (Boost)	0.65–5.5	2–5.5	1000	0.22	500	Yes	–40 to +85	1.21	90	0.7	No	6/SOT-23 8/DFN	
MCP16311	Step Down (Buck)	4.4–30	2–24	1000	0.085	500	Yes	–40 to +125	0.8	94	3	Yes	8/MSOP 8/TDFN	
MCP16312	Step Down (Buck)	4.4–30	2–24	1000	0.085	500	Yes	–40 to +125	0.8	94	3	No	8/MSOP 8/TDFN	
MCP16331	Step Down (Buck)	4.4–50	2–24	1000	1	500	No	–40 to +125	0.8	93	6	No	8/TDFN 6/SOT-23	
MCP1640	Step Up (Boost)	0.65–5.5	2–5.5	1000	0.019	500	Yes	–40 to +85	1.21	90	0.7	Yes	6/SOT-23 8/DFN	

Charge Pump DC-to-DC Converters

Product	Description	Input Voltage Range (V)	Output Voltage (V)	Typical Quiescent Current (μ A)	Typical Active Output Current (mA)	Operating Temperature Range ($^{\circ}$ C)
MCP1256	Regulated	1.8–3.6	3.3	1400	100	–40 to +125
MCP1257	Regulated	1.8–3.6	3.3	1400	100	–40 to +125
MCP1258	Regulated	1.8–3.6	3.3	1400	100	–40 to +125
MCP1259	Regulated	1.8–3.6	3.3	1400	100	–40 to +125
MCP1253	Regulated	2.1–5.5	Selectable 3.3V/5.0V, or Adjustable 1.5V to 5.5V	120	120	–45 to +85
TC7660S	Inverting or Doubling	1.5–12	$V_{OUT} = -V_{IN}$ or $V_{OUT} = 2V_{IN}$	80	20	–

Hybrid Controllers

Product	Topology	Min. Operation Voltage (V)	Max. Operation Voltage (V)	Drive Strength (A)	Program Memory Size (KWords)	RAM (bytes)	Package Size (mm)	Switching Frequency Min (kHz)	Switching Frequency Max (kHz)	Number of I/O, GPIO	Max A/D Resolution (bits)	Packages
MCP19110	Buck	4.5	32	4	4	256	4 × 4	100	1600	11	10	24/QFN
MCP19111	Buck	4.5	32	4	4	256	5 × 5	100	1600	15	10	28/QFN
MCP19114	Boost, Flyback, Ćuk, SEPIC	4.5	42	1	4	256	4 × 4	31	2000	8	10	24/QFN, 28/QFN
MCP19115	Boost, Flyback, Ćuk, SEPIC	4.5	42	1	4	256	5 × 5	31	2000	12	10	28/QFN
MCP19116	Boost, Flyback, Ćuk, SEPIC	4.5	42	1	8	336	4 × 4	31	2000	8	10	24/QFN
MCP19117	Boost, Flyback, Ćuk, SEPIC	4.5	42	1	8	336	5 × 5	31	2000	12	10	28/QFN
MCP19118	Buck	4.5	40	4	4	256	4 × 4	100	1600	11	10	24/QFN
MCP19119	Buck	4.5	40	4	4	256	5 × 5	100	1600	14	10	28/QFN
MCP19124	Boost, Flyback, Ćuk, SEPIC	4.5	42	1	4	256	4 × 4	31	2000	8	10	24/QFN
MCP19125	Boost, Flyback, Ćuk, SEPIC	4.5	42	1	4	256	5 × 5	31	2000	12	10	28/QFN

Power Management: PWM Control

Product	Supported Topologies	Minimum Input Voltage (V)	Maximum Input Voltage (V)	Typical Tolerance (%)	Duty Cycle Max (%)	Operating Frequency (Hz)	External Clock Sync	Power Good Signal	Soft Start	Input UVLO Typ (V)	Operating Supply Current (mA)	Iq Off (μ A)	Packages
MCP1630	Flyback, Boost, SEPIC, Ćuk	3	5.5	–	0.99	Sync. to 1 MHz	True	–	–	2.85	2.8	–	8/DFN 8/MSOP
MCP1631	Flyback, Boost, SEPIC, Ćuk	3	5.5	± 3	0.99	Sync. to 2 MHz	True	–	–	2.8	3.7	2.4	20/QFN 20/SSOP 208mil 20/TSSOP
MCP1631HV	Flyback, Boost, SEPIC, Ćuk	3.5	16	± 3	0.99	Sync. to 2 MHz	True	–	–	–	3.7	4.4	20/SSOP 208mil 20/TSSOP
MCP1631V	Flyback, Boost, SEPIC, Ćuk	3	5.5	± 3	0.99	Sync. to 2 MHz	True	–	–	2.8	3.7	2.4	20/QFN 20/SSOP 208mil 20/TSSOP
MCP1631VHV	Flyback, Boost, SEPIC, Ćuk	3.5	16	± 3	0.99	Sync. to 2 MHz	True	–	–	–	3.7	4.4	20/SSOP 208mil 20/TSSOP
MCP1632	Flyback, Boost, SEPIC, Ćuk	3	5.5	± 4	0.85	300K/600K	–	–	True	2.9	5	2	8/DFN 8/MSOP
MCP1633	Flyback, Boost, SEPIC, Ćuk	3	5.5	± 3	0.99	Sync. to 2.2 MHz	True	False	False	2.8	3.5	2.4	Please call for package information
MCP19035	Sync. Buck	4.5	30	± 2.5	0.85	300K/600K	–	True	True	4.2	6	25	10/DFN

Power MOSFET Drivers											
Product	MOSFET Driver Type	Driver Type	Configuration	Peak Output Current (source/sink, A)	Maximum Supply Voltage (V)	Output Resistance (source/sink, Ω)	Propagation Delay (T_{d1}/T_{d2} , ns)	Rise/Fall Time (T_r / T_f , ns)	Capacitive Load Drive	Features	Packages
MAQ4123	Low Side	Dual	Inverting	3.0/3.0	20	5/5	40/60	11/11	1,800 pF in 11 ns	–	Please call for package information
MAQ4124	Low Side	Dual	Non-Inverting	3.0/3.0	20	5/5	40/60	11/11	1,800 pF in 11 ns	–	Please call for package information
MAQ4125	Low Side	Dual	Complementary	3.0/3.0	20	5/5	40/60	11/11	1,800 pF in 11 ns	–	Please call for package information
MCP1401	Low Side	Single	Inverting	0.5/0.5	18	12/10	35/35	19/15	470 pF in 19 ns	Small footprint	5/SOT-23
MCP1402	Low Side	Single	Non-inverting	0.5/0.5	18	12/10	35/35	19/15	470 pF in 19 ns	Small footprint	5/SOT-23
MCP1403	Low Side	Dual	Inverting	4.5/4.5	18	2.2/2.8	40/40	15/18	2200 pF in 15 ns	–	8/DFN-S 8/PDIP 8/SOIC 150 mil 16/ SOIC 300mil
MCP1404	Low Side	Dual	Non-inverting	4.5/4.5	18	2.2/2.8	40/40	15/18	2200 pF in 15 ns	–	8/DFN-S 8/PDIP 8/SOIC 150 mil 16/ SOIC 300mil
MCP1405	Low Side	Dual	Complementary	4.5/4.5	18	2.2/2.8	40/40	15/18	2200 pF in 15 ns	–	8/DFN-S 8/PDIP 8/SOIC 150 mil 16/ SOIC 300mil
MCP1406	Low Side	Single	Inverting	6.0/6.0	18	2.1/1.5	40/40	20/20	2500 pF in 20 ns	–	5/TO-220 8/DFN-S 8/PDIP 8/SOIC 150 mil
MCP1407	Low Side	Single	Non-inverting	6.0/6.0	18	2.1/1.5	40/40	20/20	2500 pF in 20 ns	–	5/TO-220 8/DFN-S 8/PDIP 8/SOIC 150 mil
MCP1415	Low Side	Single	Inverting	1.5/1.5	18	6/4	41/48	20/20	470 pF in 13 ns	Small footprint	5/SOT-23
MCP1416	Low Side	Single	Non-inverting	1.5/1.5	18	6/4	41/48	20/20	470 pF in 13 ns	Small footprint	5/SOT-23
MCP14628	Synchronous	Half Bridge Driver	Dual Inputs	2.0/3.5	–	1/1 (0.5 on low side)	15/22	10/10	3300 pF in 10 ns	Continuous or discontinuous operation	8/DFN 8/SOIC
MCP14700	Synchronous	Half Bridge Driver	Dual Inputs	2.0/3.5	–	1/1 (0.5 on low side)	15/22	10/10	3300 pF in 10 ns	Allows external dead time control	8/DFN 8/SOIC
MCP14E10	Low Side	Dual	Non-inverting	3.0/3.0	18	4/4	45/45	14/17	1800 pF in 17 ns	Enable pin	8/DFN-S 8/PDIP 8/SOIC 150 mil
MCP14E11	Low Side	Dual	Complementary	3.0/3.0	18	4/4	45/45	14/17	1800 pF in 17 ns	Enable pin	8/DFN-S 8/PDIP 8/SOIC 150 mil
MCP14E3	Low Side	Dual	Inverting	4.0/4.0	18	2.5/2.5	46/50	15/18	2200 pF in 15 ns	Enable pin	8/DFN-S 8/PDIP 8/SOIC 150 mil
MCP14E4	Low Side	Dual	Non-inverting	4.0/4.0	18	2.5/2.5	46/50	15/18	2200 pF in 15 ns	Enable pin	8/DFN-S 8/PDIP 8/SOIC 150 mil
MCP14E5	Low Side	Dual	Complementary	4.0/4.0	18	2.5/2.5	46/50	15/18	2200 pF in 15 ns	Enable pin	8/DFN-S 8/PDIP 8/SOIC 150 mil
MCP14E6	Low Side	Dual	Inverting	2.0/2.0	18	5/5	45/45	12/15	1000 pF in 15 ns	Enable pin	8/DFN-S 8/PDIP 8/SOIC 150 mil
MCP14E7	Low Side	Dual	Non-inverting	2.0/2.0	18	5/5	45/45	12/15	1000 pF in 15 ns	Enable pin	8/DFN-S 8/PDIP 8/SOIC 150 mil
MCP14E8	Low Side	Dual	Complementary	2.0/2.0	18	5/5	45/45	12/15	1000 pF in 15 ns	Enable pin	8/DFN-S 8/PDIP 8/SOIC 150 mil
MCP14E9	Low Side	Dual	Inverting	3.0/3.0	18	4/4	45/45	14/17	1800 pF in 17 ns	Enable pin	8/DFN-S 8/PDIP 8/SOIC 150 mil
TC1410	Low Side	Low-Side Single	Inverting	0.5/0.5	16	16/16	30/30	25/25	500 pF in 25 ns	–	8/MSOP 8/PDIP 8/SOIC
TC1410N	Low Side	Single	Non-inverting	0.5/0.5	16	16/16	30/30	25/25	500 pF in 25 ns	–	8/MSOP 8/PDIP 8/SOIC
TC1426	Low Side	Dual	Inverting	1.2/1.2	16	12/8	75/75	25/35	1000 pF in 38 ns	–	8/MSOP 8/PDIP 8/SOIC
TC1427	Low Side	Dual	Non-inverting	1.2/1.2	16	12/8	75/75	25/35	1000 pF in 38 ns	–	8/MSOP 8/PDIP 8/SOIC 8/SOIC 150 mil
TC1428	Low Side	Dual	Complementary	1.2/1.2	16	12/8	75/75	25/35	1000 pF in 38 ns	–	8/MSOP 8/PDIP 8/SOIC
TC429	Low Side	Single	Inverting	6.0/6.0	18	2.5/2.5	53/60	35/35	2500 pF in 35ns	Not Recommended for New Desings, Please Consider: MCP1406	8/PDIP 8/SOIC 150 mil

Power MOSFET Drivers											
Product	MOSFET Driver Type	Driver Type	Configuration	Peak Output Current (source/sink, A)	Maximum Supply Voltage (V)	Output Resistance (source/sink, Ω)	Propagation Delay (T _{d1} /T _{d2} , ns)	Rise/Fall Time (Tr/Tf, ns)	Capacitive Load Drive	Features	Packages
TC4421A	Low Side	Single	Inverting	9.0/9.0	18	2.0/1.6	60/60	28/26	4700 pF in 15 ns	–	5/TO-220 8/DFN-S 8/PDIP 8/SOIC 150 mil
TC4422A	Low Side	Single	Non-inverting	9.0 / 9.0	18	2.0/1.6	60/60	28/26	4700 pF in 15 ns	High Peak Output Current: 10A (typ.)	5/TO-220 8/DFN-S 8/PDIP 8/SOIC 150 mil
TC4423A	Low Side	Dual	Inverting	3.0/3.0	18	2.2/2.8	40/41	12/12	1800 pF in 12 ns	–	8/DFN-S 8/PDIP 8/SOIC 150 mil 16/SOIC 300mil
TC4424A	Low Side	Dual	Non-inverting	3.0/3.0	18	2.2/2.8	40/41	12/12	1800 pF in 12 ns	–	8/DFN-S 8/PDIP 8/SOIC 150 mil 16/SOIC 300mil
TC4425A	Low Side	Dual	Complementary	3.0/3.0	18	2.2/2.8	40/41	12/12	1800 pF in 12 ns	–	8/DFN-S 8/PDIP 8/SOIC 150 mil 16/SOIC 300mil
TC4426A	Low Side	Dual	Inverting	1.5/1.5	18	7/7	30/30	25/25	1000 pF in 25 ns	–	8/DFN-S 8/MSOP 8/PDIP 8/SOIC
TC4427A	Low Side	Dual	Non-inverting	1.5/1.5	18	7/7	30/30	25/25	1000 pF in 25 ns	–	8/DFN-S 8/MSOP 8/PDIP 8/SOIC
TC4428A	Low Side	Dual	Complementary	1.5/1.5	18	7/7	30/30	25/25	1000 pF in 25 ns	–	8/CERDIP 8/DFN-S 8/MSOP 8/PDIP 8/SOIC
TC4432	High Side	High-SideSingle	Non-inverting	3.0/1.5	30	7/7	62/78	25/33	1000 pF in 15 ns	30V, high-side driver	8/PDIP 8/SOIC
TC4451	Low Side	Single	Inverting	12.0/12.0	18	1.0/0.9	44/44	30/32	10,000 pF in 21 ns	–	5/TO-220 8/DFN-S 8/PDIP 8/SOIC 150 mil
TC4452	Low Side	Single	Non-inverting	12.0/12.0	18	1.0/0.9	44/44	30/32	10,000 pF in 21 ns	–	5/TO-220 8/DFN-S 8/PDIP 8/SOIC 150 mil

Stepper and Brushed DC Motor D											
Product	Operating Voltage (V)	Output Type	Max. Continuous Current per Output (A)	Max. Ron per Output (Ω)	Motor Control Methods	Shutdown Protection	Ambient Temperature Operating Range (°C)	Voltage Regulators	Voltage Regulator Current (mA)	Integrated LIN Transceiver	Packages
ATA6823C	7–20	Gate Driver	0.1	20	PWM, DIR	Short Circuit, Overtemperature, Over/Under Voltage, Chargepump Fail, Watchdog	–40 to +125	1	100	Yes	32/VQFN
ATA6824C	7–20	Gate Driver	0.1	25	PWM, DIR	Short Circuit, Overtemperature, Over/Under Voltage, Chargepump Fail, Watchdog	–40 to +150	1	100	No	32/TQFP

Multi-channel Half Bridge Drive								
Product	Operating Voltage (V)	Output Type	Max. Continuous Current per Output (A)	Max. Ron per Output (Ω)	Motor Control Methods	Shutdown Protection	Ambient Temperature Operating Range (°C)	Packages
ATA6826C	7–40	MOSFET	1	1.5	SPI	Short Circuit, Overtemperature, Power Supply Fail	–40 to +125	14/SOIC 150 mil
ATA6831C	7–40	MOSFET	1	1.5	SPI, PWM	Short Circuit, Overtemperature, Power Supply Fail	–40 to +125	18/VQFN
ATA6832C	7–40	MOSFET	1	1.8	SPI, PWM	Short Circuit, Overtemperature, Power Supply Fail	–40 to +150	18/VQFN
ATA6836C	7–40	MOSFET	0.65	1.8	SPI	Short Circuit, Overtemperature, Power Supply Fail	–40 to +125	28/SOIC 24/VQFN
ATA6838C	7–40	MOSFET	0.95	1.8	SPI	Short Circuit, Overtemperature, Power Supply Fail	–40 to +125	24/VQFN

Automotive Three-Phase Motor Drive											
Product	Operating Voltage (V)	Max. Continuous Current (A)	Motor Speed Output			Shutdown Protection			Operating Temp Range		Packages
MCP8063	2–14	1.5	Frequency Generator			Overcurrent,Overtemperature			–40 to +125		8/DFN
All Serial EEPROM											
Product	Description	Density	Organization	Max. Clock Freq.	Operating Voltage	Temperature Range	E/W Endurance (Minimum at 25°C)	Data Retention (Minimum)	Max. Write Speed	Max. Standby Current (@5.5V, 85°C)	Packages
24AA01	2-Wire I²C Serial EEPROM Family - Self-tied write cycle and page write mode.	1K bits (x8)	x8	400 kHz	1.7–5.5	–40° C to +85° C	1	–	5	1	8/PDIP 8/SOIC 150 mil 8/TSSOP 5/SOT-23 8/MSOP 5/SC-70 8/DFN 8/TDFN
24AA014	2-Wire I²C Serial EEPROM Family - Self-tied write cycle and page write mode.	1K bits (x8)	x8	400 kHz	1.7–5.5	–40° C to +85° C	1000000	–	5	1	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 6/SOT-23 8/DFN 8/TDFN
24AA02	2-Wire I²C Serial EEPROM Family - Self-tied write cycle and page write mode.	2K bits (x8)	x8	400 kHz	1.7–5.5	–40° C to +85° C	1	–	5	1	8/PDIP 8/SOIC 150 mil 8/TSSOP 5/SOT-23 8/MSOP 5/SC-70 8/DFN 8/TDFN
24AA04	2-Wire I²C Serial EEPROM Family - Self-tied write cycle and page write mode.	4K bits (x8)	x8	400 kHz	1.7–5.5	–40° C to +85° C	1	–	5	1	8/PDIP 8/SOIC 150 mil 8/TSSOP 5/SOT-23 8/MSOP 8/DFN 8/TDFN 4/CSP
24AA08	2-Wire I²C Serial EEPROM Family - Self-tied write cycle and page write mode.	8K bits (x8)	x8	400 kHz	1.7–5.5	–40° C to +85° C	1	–	5	1	8/PDIP 8/SOIC 150 mil 8/TSSOP 5/SOT-23 8/MSOP 8/DFN 8/TDFN 4/CSP
24AA1025	2-Wire I²C Serial EEPROM Family - Self-tied write cycle and page write mode.	1024K bit (x8)	x8	400 kHz	1.7–5.5	–40° C to +85° C	–	200 (Years)	3	0	8/PDIP 8/SOIJ 8/SOIC 150 mil
24AA128	2-Wire I²C Serial EEPROM Family - Self-tied write cycle and page write mode.	128K bits (x8)	x8	400 kHz	1.7–5.5	–40° C to +85° C	1	200 (Years)	5	0	8/PDIP 8/SOIJ 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/TDFN 8/CSP 8/DFN-S
24AA16	2-Wire I²C Serial EEPROM Family - Self-tied write cycle and page write mode.	16K bits (x8)	x8	400 kHz	1.7–5.5	–40° C to +125° C	1	–	5	0	8/PDIP 8/SOIC 150 mil 8/TSSOP 5/SOT-23 8/MSOP 8/DFN 8/TDFN 5/CSP
24AA256	2-Wire I²C Serial EEPROM Family - Self-tied write cycle and page write mode.	256K bits (x8)	x8	400 kHz	1.7–5.5	–40° C to +125° C	1	200 (Years)	5	0	8/PDIP 8/SOIJ 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/CSP 8/DFN-S 8/TDFN
24AA32A	2-Wire I²C Serial EEPROM Family - Self-tied write cycle and page write mode.	32K bits (x8)	x8	400 kHz	1.7–5.5	–40° C to +85° C	1	–	5	0	8/PDIP 8/SOIJ 8/SOIC 150 mil 8/TSSOP 5/SOT-23 8/MSOP 8/DFN 8/TDFN 5/CSP
24AA512	2-Wire I²C Serial EEPROM Family - Self-tied write cycle and page write mode.	512K bits (x8)	x8	400 kHz	1.7–5.5	–40° C to +85° C	1	200 (Years)	5	1	8/PDIP 8/SOIJ 8/SOIC 150 mil 14/TSSOP 8/TSSOP 8/CSP 8/DFN-S
24AA64	2-Wire I²C Serial EEPROM Family - Self-tied write cycle and page write mode.	64K bits (x8)	x8	400 kHz	1.7–5.5	–40° C to +125° C	1	–	5	0	8/PDIP 8/SOIJ 8/SOIC 150 mil 8/TSSOP 5/SOT-23 8/MSOP 8/DFN 8/TDFN 5/CSP
24C01C	2-Wire I²C Serial EEPROM Family - Self-tied write cycle and page write mode.	1K bits (x8)	x8	400 kHz	4.5–5.5	–40° C to +125° C	1000000	–	1	0	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 6/SOT-23 8/DFN 8/TDFN
24C02C	2-Wire I²C Serial EEPROM Family - Self-tied write cycle and page write mode.	2K bits (x8)	x8	400 kHz	4.5–5.5	–40° C to +125° C	1000000	–	1	0	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/DFN 8/TDFN
24FC01	2-Wire I²C Serial EEPROM Family - Self-tied write cycle and page write mode.	1K bits (x8)	x8	1 MHz	1.7–5.5	–40° C to +125° C	1	0 (Years)	5	1	8/PDIP 8/SOIC 150 mil 8/TSSOP 5/SOT-23 8/MSOP 8/UDFN
24FC02	2-Wire I²C Serial EEPROM Family - Self-tied write cycle and page write mode.	2K bits (x8)	x8	1 MHz	1.7–5.5	–40° C to +125° C	1	0 (Years)	5	1	8/PDIP 8/SOIC 150 mil 8/TSSOP 5/SOT-23 8/MSOP 8/UDFN
24FC04	2-Wire I²C Serial EEPROM Family - Self-tied write cycle and page write mode.	4K bits (x8)	x8	1 MHz	1.7–5.5	–40° C to +125° C	1	0 (Years)	5	1	8/PDIP 8/SOIC 150 mil 8/TSSOP 5/SOT-23 8/MSOP 8/UDFN
24FC1025	2-Wire I²C Serial EEPROM Family - Self-tied write cycle and page write mode.	1024K bit (x8)	x8	1 MHz	1.8–5.5	–40° C to +85° C	–	200 (Years)	3	0	8/PDIP 8/SOIJ 8/SOIC 150 mil

All Serial EEPROM

Product	Description	Density	Organization	Max. Clock Freq.	Operating Voltage	Temperature Range	E/W Endurance (Minimum at 25°C)	Data Retention (Minimum)	Max. Write Speed	Max. Standby Current (@5.5V, 85°C)	Packages
24FC256	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	256K bits (x8)	x8	1 MHz	1.7–5.5	–40° C to +85° C	1	200 (Years)	5	0	8/PDIP 8/SOIJ 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/DFN-S 8/TDFN
24FC512	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	512K bits (x8)	x8	1 MHz	1.7–5.5	–40° C to +85° C	1	200 (Years)	5	1	8/PDIP 8/SOIJ 8/SOIC 150 mil 8/TSSOP 14/TSSOP 8/DFN-S
24LC014	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	1K bits (x8)	x8	400 kHz	2.5–5.5	–40° C to +85° C	1000000	–	5	0	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 6/SOT-23 8/DFN 8/TDFN
24LC01B	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	1K bits (x8)	x8	400 kHz	2.5–5.5	–40° C to +125° C	1	–	5	0	8/PDIP 8/SOIC 150 mil 8/TSSOP 5/SOT-23 8/MSOP 5/SC-70 8/DFN 8/TDFN
24LC024	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	2K bits (x8)	x8	400 kHz	2.5–5.5	–40° C to +85° C	1000000	–	5	0	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/DFN 8/TDFN
24LC02B	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	2K bits (x8)	x8	400 kHz	2.5–5.5	–40° C to +125° C	1	–	5	0	8/PDIP 8/SOIC 150 mil 8/TSSOP 5/SOT-23 8/MSOP 5/SC-70 8/DFN 8/TDFN
24LC04B	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	4K bits (x8)	x8	400 kHz	2.5–5.5	–40° C to +125° C	1	–	5	0	8/PDIP 8/SOIC 150 mil 8/TSSOP 5/SOT-23 8/MSOP 8/DFN 8/TDFN
24LC08B	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	8K bits (x8)	x8	400 kHz	2.5–5.5	–40° C to +125° C	1	–	5	0	8/PDIP 8/SOIC 150 mil 8/TSSOP 5/SOT-23 8/MSOP 8/DFN 8/TDFN
24LC1025	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	1024K bits (x8)	x8	400 kHz	2.5–5.5	–40° C to +125° C	–	–	3	0	8/PDIP 8/SOIJ 8/SOIC 150 mil
24LC128	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	128K bits (x8)	x8	400 kHz	2.5–5.5	–40° C to +125° C	1	0 (Years)	5	0	8/PDIP 8/SOIJ 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/TDFN 8/DFN-S
24LC16B	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	16K bits (x8)	x8	400 kHz	2.5–5.5	–40° C to +125° C	1	–	5	0	8/PDIP 8/SOIC 150 mil 8/TSSOP 5/SOT-23 8/MSOP 8/DFN 8/TDFN
24LC256	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	256K bits (x8)	x8	400 kHz	2.5–5.5	–40° C to +125° C	1	0 (Years)	5	0	8/PDIP 8/SOIJ 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/DFN-S 8/TDFN 8/SOIC
24LC32A	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	32K bits (x8)	x8	400 kHz	2.5–5.5	–40° C to +125° C	1	–	5	1	8/PDIP 8/SOIJ 8/SOIC 150 mil 8/TSSOP 5/SOT-23 8/MSOP 8/DFN 8/TDFN
24LC512	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	512K bits (x8)	x8	400 kHz	2.5–5.5	–40° C to +125° C	1	200 (	5	1	8/PDIP 8/SOIJ 8/SOIC 150 mil 14/TSSOP 8/TSSOP 8/DFN-S
24LC64	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	64K bits (x8)	x8	400 kHz	2.5–5.5	–40° C to +125° C	1	–	5	0	8/PDIP 8/SOIJ 8/SOIC 150 mil 8/TSSOP 5/SOT-23 8/MSOP 8/DFN 8/TDFN
AT24C01C	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	1K bits	–	1 MHz	1.7–5.5	–40° C to +125° C	0	0 (Years)	5	6	8/PDIP 8/SOIC 150 mil 5/SOT-23 8/SOIC 5/TSOT 8/TSSOP 8/UDFN 8/VFBGA
AT24C02C	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	2K bits	–	1 MHz	1.7–5.5	–40° C to +125° C	0	0 (Years)	5	6	8/PDIP 8/SOIC 150 mil 5/SOT-23 8/SOIC 5/TSOT 8/TSSOP 8/UDFN 8/VFBGA
AT24C04C	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	4K bits	–	1 MHz	1.7–5.5	–40° C to +125° C	0	0 (Years)	5	6	8/PDIP 8/SOIC 150 mil 5/SOT-23 8/SOIC 5/TSOT 8/TSSOP 8/UDFN 8/VFBGA
AT24C08C	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	8K bits	–	1 MHz	1.7–5.5	–40° C to +125° C	0	0 (Years)	5	6	8/PDIP 8/SOIC 150 mil 5/SOT-23 8/SOIC 5/TSOT 8/TSSOP 8/UDFN 8/VFBGA
AT24C128C	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	128K bits	–	1 MHz	1.7–5.5	–40° C to +125° C	0	0 (Years)	5	6	8/SOIC 150 mil 8/SOIC 8/TSSOP 8/UDFN 8/VFBGA 4/WLCSP 8/XDFN
AT24C16C	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	16K bits	–	1 MHz	1.7–5.5	–40° C to +125° C	0	0 (Years)	5	6	8/PDIP 8/SOIC 150 mil 5/SOT-23 8/SOIC 5/TSOT 8/TSSOP 8/UDFN 8/VFBGA 8/XDFN

All Serial EEPROM											
Product	Description	Density	Organization	Max. Clock Freq.	Operating Voltage	Temperature Range	E/W Endurance (Minimum at 25°C)	Data Retention (Minimum)	Max. Write Speed	Max. Standby Current (@5.5V, 85°C)	Packages
AT24C256C	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	256K bits	–	1 MHz	1.7–5.5	–40° C to +125° C	0	0 (Years)	5	6	8/SOIC 150 mil 8/SOIC 8/TSSOP 8/UDFN 8/VFBGA
AT24C32D	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	32K bits	–	1 MHz	1.7–5.5	–40° C to +125° C	0	0 (Years)	5	6	8/SOIC 150 mil 8/SOIC 5/TSOT 8/TSSOP 8/UDFN 8/VFBGA 8/XDFN
AT24C64D	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	64K bits	–	1 MHz	1.7–5.5	–40° C to +125° C	0	0 (Years)	5	6	8/SOIC 150 mil 8/SOIC 8/TSSOP 8/UDFN 8/VFBGA 6/WLCSP 4/WLCSP 8/XDFN
AT24HC04B	2-Wire I ² C Serial EEPROM Family - Self-tied write cycle and page write mode.	4K bits	–	1 MHz	1.8–5.5	–40° C to +125° C	0	0 (Years)	5	18	8/PDIP 8/SOIC 150 mil 8/SOIC 8/TSSOP
93AA76A	3-wire Serial I/O	8K bits (x8)	x8	3 MHz	1.8–5.5	–40° C to +125° C	0	0 (Years)	6	0	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 6/SOT-23
93AA76B	3-wire Serial I/O	8K bits (x8)	x16	3 MHz	1.8–5.5	–40° C to +125° C	0	0 (Years)	6	0	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 6/SOT-23
93AA76C	3-wire Serial I/O	8K bits (x8)	x8, x16	3 MHz	1.8–5.5	–40° C to +125° C	0	0 (Years)	6	0	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/DFN 8/TDFN
93AA86A	3-wire Serial I/O	16K bits (x8)	x8	3 MHz	1.8–5.5	–40° C to +125° C	0	0 (Years)	6	0	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 6/SOT-23
93AA86B	3-wire Serial I/O	16K bits (x8)	x16	3 MHz	1.8–5.5	–40° C to +125° C	0	0 (Years)	6	0	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 6/SOT-23
93AA86C	3-wire Serial I/O	16K bits (x8)	x8, x16	3 MHz	1.8–5.5	–40° C to +125° C	0	0 (Years)	6	0	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/DFN 8/TDFN
93LC46A	3-wire Serial I/O	1K bits (x8)	x8	2 MHz	2.5–5.5	–40° C to +125° C	1	–	6	5	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 6/SOT-23 8/DFN 8/TDFN
93LC46B	3-wire Serial I/O	1K bits (x16)	x16	2 MHz	2.5–5.5	–40° C to +125° C	1	–	6	5	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 6/SOT-23 8/DFN 8/TDFN
93LC46C	3-wire Serial I/O	1K bits (x8 or x16)	x8, x16	3 MHz	2.5–5.5	–40° C to +125° C	1	–	6	5	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/DFN 8/TDFN
93LC56A	3-wire Serial I/O	2K bits (x8)	x8	2 MHz	2.5–5.5	–40° C to +125° C	1	–	6	5	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 6/SOT-23 8/DFN 8/TDFN
93LC56B	3-wire Serial I/O	2K bits (x16)	x16	2 MHz	2.5–5.5	–40° C to +125° C	1	–	6	5	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 6/SOT-23 8/DFN 8/TDFN
93LC76A	3-wire Serial I/O	8K bits (x8)	x8	3 MHz	2.5–5.5	–40° C to +125° C	–	–	6	0	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 6/SOT-23
93LC76B	3-wire Serial I/O	8K bits (x8)	x16	3 MHz	2.5–5.5	–40° C to +125° C	–	–	6	0	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 6/SOT-23
93LC76C	3-wire Serial I/O	8K bits (x8)	x8, x16	3 MHz	2.5–5.5	–40° C to +125° C	–	–	6	0	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/DFN 8/TDFN
93LC86A	3-wire Serial I/O	16K bits (x8)	x8	3 MHz	2.5–5.5	–40° C to +125° C	–	–	6	0	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 6/SOT-23
93LC86B	3-wire Serial I/O	16K bits (x8)	x16	3 MHz	2.5–5.5	–40° C to +125° C	–	–	6	0	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 6/SOT-23
93LC86C	3-wire Serial I/O	16K bits (x8 or x16)	x8, x16	3 MHz	2.5–5.5	–40° C to +125° C	–	–	6	0	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/DFN 8/TDFN

All Serial EEPROM

Product	Description	Density	Organization	Max. Clock Freq.	Operating Voltage	Temperature Range	E/W Endurance (Minimum at 25°C)	Data Retention (Minimum)	Max. Write Speed	Max. Standby Current (@5.5V, 85°C)	Packages
AT93C46D	3-wire Serial I/O	1K bits (x8 or x16)	x8, x16	2 MHz	1.8–5.5	–40° C to +125° C	0	0 (Years)	5	15	8/PDIP 8/SOIC 150 mil 8/SOIC 8/TSSOP 8/UDFN 8/VFBGA
AT93C56B	3-wire Serial I/O	2K bits (x8 or x16)	–	2 MHz	1.7–5.5	–40° C to +125° C	0	0 (Years)	5	15	8/SOIC 150 mil 8/SOIC 8/TSSOP 8/UDFN 8/VFBGA 8/XDFN
AT93C66B	3-wire Serial I/O	4K bits (x8 or x16)	x8 or x16	2 MHz	1.7–5.5	–40° C to +125° C	0	0 (Years)	5	15	8/SOIC 150 mil 8/SOIC 8/TSSOP 8/UDFN 8/VFBGA 8/XDFN
AT93C86A	3-wire Serial I/O	16K bits (x8 or x16)	x8 or x16	2 MHz	1.8–5.5	–40° C to +125° C	0	0 (Years)	10	15	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/UDFN
25AA010A	SPI Compatible Serial EEPROM Family	1 Kbit	x8	10 MHz	1.8–5.5	–40° C to +85° C	0	0 (Years)	5	5	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 6/SOT-23 8/DFN 8/TDFN
25AA020A	SPI Compatible Serial EEPROM Family	2 Kbit	x8	10 MHz	1.8–5.5	–40° C to +85° C	0	0 (Years)	5	5	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 6/SOT-23 8/DFN 8/TDFN
25AA040A	SPI Compatible Serial EEPROM Family	4K bits	x8	10 MHz	1.8–5.5	–40° C to +85° C	0	0 (Years)	5	5	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 6/SOT-23 8/DFN 8/TDFN
25AA080C	SPI Compatible Serial EEPROM Family	8 Kbit	–	10 MHz	1.8–5.5	–40° C to +85° C	0	0 (Years)	5	5	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/TDFN
25AA1024	SPI Compatible Serial EEPROM Family	1024 Kbit	x8	20 MHz	1.8–5.5	–40° C to +85° C	0	0 (Years)	5	12	8/PDIP 8/SOIJ 8/DFN-S
25AA128	SPI Compatible Serial EEPROM Family	128 Kbit	x8	10 MHz	1.8–5.5	–40° C to +85° C	0	0 (Years)	5	1	8/PDIP 8/SOIJ 8/SOIC 150 mil 8/TSSOP 8/DFN-S
25AA160C	SPI Compatible Serial EEPROM Family	16 Kbit	–	10 MHz	1.8–5.5	–40° C to +85° C	0	0 (Years)	5	5	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/TDFN
25AA160D	SPI Compatible Serial EEPROM Family	16 Kbit	–	10 MHz	1.8–5.5	–40° C to +125° C	0	0 (Years)	5	5	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/TDFN
25AA256	SPI Compatible Serial EEPROM Family	256 Kbit	x8	10 MHz	1.8–5.5	–40° C to +125° C	0	0 (Years)	5	5	8/PDIP 8/SOIJ 8/SOIC 150 mil 8/TSSOP 8/DFN-S 0/BMPD WFR
25AA320A	SPI Compatible Serial EEPROM Family	32 Kbit	x8	10 MHz	1.8–5.5	–40° C to +85° C	0	0 (Years)	5	1	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/TDFN
25AA512	SPI Compatible Serial EEPROM Family	512 Kbit	–	20 MHz	1.8–5.5	–40° C to +85° C	0	0 (Years)	5	5	8/PDIP 8/SOIJ 8/SOIC 150 mil 8/DFN-S
25AA640A	SPI Compatible Serial EEPROM Family	64 Kbit	x8	10 MHz	1.8–5.5	–40° C to +125° C	0	0 (Years)	5	1	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/TDFN 8/DFN-S
25LC010A	SPI Compatible Serial EEPROM Family	1 Kbit	x8	10 MHz	2.5–5.5	–40° C to +150° C	0	0 (Years)	5	5	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 6/SOT-23 8/DFN 8/TDFN
25LC020A	SPI Compatible Serial EEPROM Family	2 Kbit	x8	10 MHz	2.5–5.5	–40° C to +150° C	0	0 (Years)	5	5	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 6/SOT-23 8/DFN 8/TDFN
25LC040A	SPI Compatible Serial EEPROM Family	4K bits	x8	10 MHz	2.5–5.5	–40° C to +150° C	0	0 (Years)	5	5	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 6/SOT-23 8/DFN 8/TDFN
25LC080C	SPI Compatible Serial EEPROM Family	8 Kbit	–	10 MHz	1.8–5.5	–40° C to +150° C	0	0 (Years)	5	5	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/TDFN
25LC080D	SPI Compatible Serial EEPROM Family	8 Kbit	–	10 MHz	2.5–5.5	–40° C to +150° C	0	0 (Years)	5	5	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/TDFN
25LC1024	SPI Compatible Serial EEPROM Family	1024 Kbit	x8	20 MHz	2.5–5.5	–40° C to +125° C	0	0 (Years)	5	10	8/PDIP 8/SOIJ 8/DFN-S
25LC128	SPI Compatible Serial EEPROM Family	128 Kbit	x8	10 MHz	2.5–5.5	–40° C to +150° C	0	0 (Years)	5	5	8/PDIP 8/SOIJ 8/SOIC 150 mil 8/TSSOP 8/DFN-S
25LC160C	SPI Compatible Serial EEPROM Family	16 Kbit	–	10 MHz	2.5–5.5	–40° C to +150° C	0	0 (Years)	5	5	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/TDFN

All Serial EEPROM											
Product	Description	Density	Organization	Max. Clock Freq.	Operating Voltage	Temperature Range	E/W Endurance (Minimum at 25°C)	Data Retention (Minimum)	Max. Write Speed	Max. Standby Current (@5.5V, 85°C)	Packages
25LC160D	SPI Compatible Serial EEPROM Family	16 Kbit	–	10 MHz	2.5–5.5	–40° C to +150° C	0	0 (Years)	5	5	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/TDFN
25LC256	SPI Compatible Serial EEPROM Family	256 Kbit	x8	10 MHz	2.5–5.5	–55° C to +125° C	0	0 (Years)	5	5	8/PDIP 8/SOIJ 8/SOIC 150 mil 8/TSSOP 8/DFN-S
25LC320A	SPI Compatible Serial EEPROM Family	32 Kbit	x8	10 MHz	2.5–5.5	–40° C to +150° C	0	0 (Years)	5	1	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/TDFN
25LC512	SPI Compatible Serial EEPROM Family	512 Kbit	x8	20 MHz	2.5–5.5	–55° C to +125° C	0	0 (Years)	5	10	8/PDIP 8/SOIJ 8/SOIC 150 mil 8/DFN-S
25LC640A	SPI Compatible Serial EEPROM Family	64 Kbit	x8	10 MHz	2.5–5.5	–55° C to +125° C	0	0 (Years)	5	5	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/TDFN 8/DFN-S 8/SOIC
AT25010B	SPI Compatible Serial EEPROM Family	1 Kbit	–	20 MHz	1.8–5.5	–40° C to +125° C	0	0 (Years)	5	5	8/SOIC 8/TSSOP 8/UDFN 8/VFBGA
AT25020B	SPI Compatible Serial EEPROM Family	2 Kbit	–	20 MHz	1.8–5.5	–40° C to +125° C	0	0 (Years)	5	5	8/SOIC 8/TSSOP 8/UDFN
AT25040B	SPI Compatible Serial EEPROM Family	4K bits	–	20 MHz	1.8–5.5	–40° C to +125° C	0	0 (Years)	5	4	8/SOIC 8/TSSOP 8/UDFN 8/VFBGA
AT25080B	SPI Compatible Serial EEPROM Family	8 Kbit	–	20 MHz	1.8–5.5	–40° C to +125° C	0	0 (Years)	5	10	8/SOIC 8/TSSOP 8/UDFN 8/VFBGA 8/XDFN
AT25128B	SPI Compatible Serial EEPROM Family	128 Kbit	–	20 MHz	1.8–5.5	–40° C to +125° C	0	0 (Years)	5	5	8/SOIC 8/TSSOP 8/UDFN 8/VFBGA
AT25160B	SPI Compatible Serial EEPROM Family	16 Kbit	–	20 MHz	1.8–5.5	–40° C to +125° C	0	0 (Years)	5	10	8/SOIC 8/TSSOP 8/UDFN 8/VFBGA 8/XDFN
AT25256B	SPI Compatible Serial EEPROM Family	256 Kbit	–	20 MHz	1.8–5.5	–40° C to +125° C	0	0 (Years)	5	5	8/SOIJ 8/SOIC 8/TSSOP 8/UDFN 8/VFBGA
AT25320B	SPI Compatible Serial EEPROM Family	32 Kbit	–	20 MHz	1.8–5.5	–40° C to +125° C	0	0 (Years)	5	10	8/SOIC 8/TSSOP 8/UDFN 8/VFBGA 8/XDFN
AT25640B	SPI Compatible Serial EEPROM Family	64 Kbit	–	20 MHz	1.8–5.5	–40° C to +125° C	0	0 (Years)	5	10	8/SOIC 8/TSSOP 8/UDFN 8/VFBGA 8/XDFN
11AA010	UNI/O Serial EEPROM Family	1K bit (x8)	x8	100 kHz	1.8–5.5	–40° C to +85° C	–	–	5	1	8/PDIP 8/SOIC 150 mil 8/MSOP 3/TO-92 3/SOT-23 8/TDFN
11AA020	UNI/O Serial EEPROM Family	2K bit (x8)	x8	100 kHz	1.8–5.5	–40° C to +85° C	–	–	5	1	8/PDIP 8/SOIC 150 mil 8/MSOP 3/TO-92 3/SOT-23 8/TDFN 4/CSP
11AA040	UNI/O Serial EEPROM Family	4K bit (x8)	x8	100 kHz	1.8–5.5	–40° C to +85° C	–	–	5	1	8/PDIP 8/SOIC 150 mil 8/MSOP 3/SOT-23 8/TDFN
11AA080	UNI/O Serial EEPROM Family	8K bit (x8)	x8	100 kHz	1.8–5.5	–40° C to +85° C	–	–	5	1	8/PDIP 8/SOIC 150 mil 8/MSOP 3/TO-92 3/SOT-23 8/TDFN
11AA160	UNI/O Serial EEPROM Family	16K bit (x8)	x8	100 kHz	1.8–5.5	–40° C to +85° C	–	–	5	1	8/PDIP 8/SOIC 150 mil 8/MSOP 3/TO-92 3/SOT-23 8/TDFN 4/CSP
11AA161	UNI/O Serial EEPROM Family	16K bit (x8)	–	100 kHz	1.8–5.5	–40° C to +85° C	–	200 (Years)	5	1	8/PDIP 8/SOIC 150 mil 8/MSOP 3/TO-92 3/SOT-23 8/TDFN
11LC010	UNI/O Serial EEPROM Family	1K bit (x8)	x8	100 kHz	2.5–5.5	–40° C to +125° C	–	–	5	1	8/PDIP 8/SOIC 150 mil 8/MSOP 3/TO-92 3/SOT-23 8/TDFN
11LC020	UNI/O Serial EEPROM Family	2K bit (x8)	x8	100 kHz	2.5–5.5	–40° C to +125° C	–	–	5	1	8/PDIP 8/SOIC 150 mil 8/MSOP 3/TO-92 3/SOT-23 8/TDFN
11LC040	UNI/O Serial EEPROM Family	4K bit (x8)	x8	100 kHz	2.5–5.5	–40° C to +125° C	–	–	5	1	8/PDIP 8/SOIC 150 mil 8/MSOP 3/TO-92 3/SOT-23 8/TDFN

All Serial EEPROM

Product	Description	Density	Organization	Max. Clock Freq.	Operating Voltage	Temperature Range	E/W Endurance (Minimum at 25°C)	Data Retention (Minimum)	Max. Write Speed	Max. Standby Current (@5.5V, 85°C)	Packages
11LC080	UNI/O Serial EEPROM Family	8K bit (x8)	x8	100 kHz	2.5–5.5	–40° C to +125° C	–	–	5	1	8/PDIP 8/SOIC 150 mil 8/MSOP 3/TO-92 3/SOT-23 8/TDFN
11LC160	UNI/O Serial EEPROM Family	16K bit (x8)	x8	100 kHz	2.5–5.5	–40° C to +125° C	–	–	5	1	8/PDIP 8/SOIC 150 mil 8/MSOP 3/TO-92 3/SOT-23 8/TDFN
11LC161	UNI/O Serial EEPROM Family	16K bit (x8)	x8	100 kHz	2.5–5.5	–40° C to +125° C	–	200 (Years)	5	1	8/PDIP 8/SOIC 150 mil 8/MSOP 3/TO-92 3/SOT-23 8/DFN 8/TDFN

Serial Flash

Product	Voltage	Density	Max. Clock Freq.	Temperature Range	Packages
SST25PF040C	2.3–3.6	4 Mbit	40 MHz	–40° C to +85° C	8/SOIC 150 mil 8/TDFN-S 8/UDFN
SST25WF080B	1.65–1.95	8 Mbit	40 MHz	–40° C to +125° C	8/SOIC 8/SOIC 150 mil 8/UDFN 9/WLCSP
SST26VF016B	2.3–3.6	16 Mbit	104 MHz	See Data Sheet for Specific Temperature Range	8/SOIC 150 mil 8/SOIJ 8/TDFN-S
SST26VF032B	2.3–3.6	32 Mbit	104 MHz	See Data Sheet for Specific Temperature Range	8/SOIJ 8/TDFN-S 24/TBGA
SST26VF032BA	2.7–3.6	32 Mbit	104 MHz	–40° C to +85° C	8/SOIJ 8/TDFN-S
SST26VF064B	2.3–3.6	64 Mbit	104 MHz	See Data Sheet for Specific Temperature Range	8/SOIJ 8/TDFN 8/TDFN-S 16/SOIC 300 mil 24/TBGA
SST26VF064BA	2.7–3.6	64 Mbit	104 MHz	–40° C to +85° C	8/SOIJ 8/TDFN-S 16/SOIC 300 mil

SST Parallel Flash

Product	Description	Density	Operating Voltage	Temp. Range	Max. Standby Current (µA)	Packages
SST38VF6401B	SST Parallel Flash Family	64 Mbit	2.7–3.6	–40° C to +85° C	30	48/TSOP 48/TFBGA
SST38VF6402B	SST Parallel Flash Family	64 Mbit	2.7–3.6	–40° C to +85° C	30	48/TSOP 48/TFBGA
SST38VF6403B	SST Parallel Flash Family	64 Mbit	2.7–3.6	–40° C to +85° C	30	48/TSOP 48/TFBGA
SST38VF6404B	SST Parallel Flash Family	64 Mbit	2.7–3.6	–40° C to +85° C	30	48/TSOP 48/TFBGA
SST39LF400A	SST Parallel Flash Family	4 Mbit	3–3.6	0° C to +70° C	20	48/TSOP 48/TFBGA 48/WFBGA
SST39LF800A	SST Parallel Flash Family	8 Mbit	3–3.6	0° C to +70° C	20	48/TSOP 48/TFBGA 48/WFBGA
SST39VF1601	SST Parallel Flash Family	16 Mbit	2.7–3.6	–40° C to +85° C	20	48/TSOP 48/TFBGA
SST39VF1602	SST Parallel Flash Family	16 Mbit	2.7–3.6	–40° C to +85° C	20	48/TSOP 48/TFBGA
SST39VF1681	SST Parallel Flash Family	16 Mbit	2.7–3.6	–40° C to +85° C	20	48/TSOP 48/TFBGA
SST39VF1682	SST Parallel Flash Family	16 Mbit	2.7–3.6	–40° C to +85° C	20	48/TSOP 48/TFBGA
SST39VF3201	SST Parallel Flash Family	32 Mbit	2.7–3.6	–40° C to +85° C	20	48/TSOP 48/TFBGA
SST39VF3201C	SST Parallel Flash Family	32 Mbit	2.7–3.6	–40° C to +85° C	50	48/TSOP 48/TFBGA
SST39VF3202	SST Parallel Flash Family	32 Mbit	2.7–3.6	–40° C to +85° C	20	48/TSOP 48/TFBGA
SST39VF3202C	SST Parallel Flash Family	32 Mbit	2.7–3.6	–40° C to +85° C	50	48/TSOP 48/TFBGA
SST39VF400A	SST Parallel Flash Family	4 Mbit	2.7–3.6	–40° C to +85° C	20	48/TSOP 48/TFBGA 48/WFBGA 48/XFLGA
SST39VF6401B	SST Parallel Flash Family	64 Mbit	2.7–3.6	–40° C to +85° C	20	48/TSOP 48/TFBGA
SST39VF6402B	SST Parallel Flash Family	64 Mbit	2.7–3.6	–40° C to +85° C	20	48/TSOP 48/TFBGA

SST Parallel Flash						
Product	Description	Density	Operating Voltage	Temp. Range	Max. Standby Current (μA)	Packages
SST39VF800A	SST Parallel Flash Family	8 Mbit	2.7–3.6	–40° C to +125° C	20	48/TSOP 48/TFBGA 48/WFBGA
SST39WF1601	SST Parallel Flash Family	16 Mbit	1.65 - 1.95	–40° C to +85° C	40	48/TFBGA 48/WFBGA
SST39WF1602	SST Parallel Flash Family	16 Mbit	1.65 - 1.95	–40° C to +85° C	40	48/TFBGA 48/WFBGA
SST39WF400B	SST Parallel Flash Family	4 Mbit	1.65 - 1.95	–40° C to +85° C	40	48/TFBGA 48/WFBGA
SST39WF800B	SST Parallel Flash Family	8 Mbit	1.65 - 1.95	–40° C to +85° C	40	48/TFBGA 48/WFBGA 48/XFLGA

Serial SRAM Family								
Product	Description	Density	Page Size (Bytes)	Max. Clock Freq.	Operating Voltage	Temp. Range	Max. Standby Current (μA)	Packages
23A1024	Serial SRAM Family	1024K bits	32	20 MHz	1.7–2.2	–40° C to +125° C	4	8/PDIP 8/SOIC 8/TSSOP
23A256	Serial SRAM Family	256K bit	16	16 MHz	2.7–3.6	–40° C to +125° C	40	8/PDIP 8/SOIC 150 mil 8/TSSOP
23A512	Serial SRAM Family	512K bits	32	20 MHz	1.7–2.2	–40° C to +125° C	4	8/PDIP 8/SOIC 8/TSSOP
23A640	Serial SRAM Family	64K bits	32	16 MHz	1.5–1.95	–40° C to +85° C	4	8/PDIP 8/SOIC 150 mil 8/TSSOP
23K256	Serial SRAM Family	256K bits	32	20 MHz	2.7–3.6	–40° C to +125° C	4	8/PDIP 8/SOIC 150 mil 8/TSSOP
23K640	Serial SRAM Family	64K bits	32	20 MHz	2.7–3.6	–40° C to +125° C	4	8/PDIP 8/SOIC 150 mil 8/TSSOP
23LC1024	Serial SRAM Family	1024K bits	32	20 MHz	2.5–5.5	–40° C to +125° C	4	8/PDIP 8/SOIC 8/TSSOP
23LC512	Serial SRAM Family	512K bits	32	20 MHz	2.5–5.5	–40° C to +125° C	4	8/PDIP 8/SOIC 8/TSSOP

RTCC																		
Product	Pin Count	Interface	Max Interface Speed	Vcc Range (V)	Vbat Range (V)	Ibat Current (nA)	Power-Fail Timestamp	User SRAM (Bytes)	EEPROM (Kbits)	Unique ID (MAC Address)	Unique_ID (Bits)	Alarms	Outputs	Minimum Clock_Count	Digital Trimming	Temperature Range	Packages	
MCP79400	8	I ² C	400 KHz	1.8–5.5	1.3–5.5	700	Vcc Fail and Vcc Restore	64	0	Blank ID	64	2 Alarms (1 sec)	IRQ/CLK	1 sec	–127 to +127 ppm (1 ppm steps)	–40 to +85	8/SOIC 150 mil 8/TSSOP 8/MSOP 8/TDFN	
MCP79401	8	I ² C	400 KHz	1.8–5.5	1.3–5.5	700	Vcc Fail and Vcc Restore	64	0	EUI-48	64	2 Alarms (1 sec)	IRQ/CLK	1 sec	–127 to +127 ppm (1 ppm steps)	–40 to +85	8/SOIC 150 mil 8/TSSOP 8/MSOP 8/TDFN	
MCP79402	8	I ² C	400 KHz	1.8–5.5	1.3–5.5	700	Vcc Fail and Vcc Restore	64	0	EUI-64	64	2 Alarms (1 sec)	IRQ/CLK	1 sec	–127 to +127 ppm (1 ppm steps)	–40 to +85	8/SOIC 150 mil 8/TSSOP 8/MSOP 8/TDFN	
MCP7940M	8	I ² C	400 KHz	1.8–5.5	–	–	–	64	0	None	–	2 Alarms (1 sec)	IRQ/CLK	1 sec	–127 to +127 ppm (1 ppm steps)	–40 to +85	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/TDFN	
MCP7940N	8	I ² C	400 kHz	1.8–5.5	1.3–5.5	700	Vcc Fail and Vcc Restore	64	0	None	–	2 Alarms (1 sec)	IRQ/CLK	1 sec	–127 to +127 ppm (1 ppm steps)	–40 to +125	8/PDIP 8/SOIC 150 mil 8/TSSOP 8/MSOP 8/TDFN	
MCP79410	8	I ² C	400 KHz	1.8–5.5	1.3–5.5	700	Vcc Fail and Vcc Restore	64	1	Blank ID	64	2 Alarms (1 sec)	IRQ/CLK	1 sec	–127 to +127 ppm (1 ppm steps)	–40 to +85	8/SOIC 150 mil 8/TSSOP 8/MSOP 8/TDFN	
MCP79411	8	I ² C	400 KHz	1.8–5.5	1.3–5.5	700	Vcc Fail and Vcc Restore	64	1	EUI-48	64	2 Alarms (1 sec)	IRQ/CLK	1 sec	–127 to +127 ppm (1 ppm steps)	–40 to +85	8/SOIC 150 mil 8/TSSOP 8/MSOP 8/TDFN	
MCP79412	8	I ² C	400 KHz	1.8–5.5	1.3–5.5	700	Vcc Fail and Vcc Restore	64	1	EUI-64	64	2 Alarms (1 sec)	IRQ/CLK	1 sec	–127 to +127 ppm (1 ppm steps)	–40 to +85	8/SOIC 150 mil 8/TSSOP 8/MSOP 8/TDFN	
MCP79510	10	SPI	10 MHz	1.8–3.6	1.3–3.6	700	Vcc Fail and Vcc Restore	64	1	Blank	128	2 Alarms (0.01sec)	IRQ/CLK	0.01 sec	–255 to +255 ppm (1 ppm steps)	–40 to +85	10/MSOP 10/TDFN	
MCP79511	10	SPI	10 MHz	1.8–3.6	1.3–3.6	700	Vcc Fail and Vcc Restore	64	1	EUI-48	128	2 Alarms (0.01sec)	IRQ/CLK	0.01 sec	–255 to +255 ppm (1 ppm steps)	–40 to +85	10/MSOP 10/TDFN	
MCP79512	10	SPI	10 MHz	1.8–3.6	1.3–3.6	700	Vcc Fail and Vcc Restore	64	1	EUI-64	128	2 Alarms (0.01sec)	IRQ/CLK	0.01 sec	–255 to +255 ppm (1 ppm steps)	–40 to +85	10/MSOP 10/TDFN	
MCP79520	10	SPI	10 MHz	1.8–3.6	1.3–3.6	700	Vcc Fail and Vcc Restore	64	2	Blank	128	2 Alarms (0.01sec)	IRQ/CLK	0.01 sec	–255 to +255 ppm (1 ppm steps)	–40 to +85	10/MSOP 10/TDFN	
MCP79521	10	SPI	10 MHz	1.8–3.6	1.3–3.6	700	Vcc Fail and Vcc Restore	64	2	EUI-48	128	2 Alarms (0.01sec)	IRQ/CLK	0.01 sec	–255 to +255 ppm (1 ppm steps)	–40 to +85	10/MSOP 10/TDFN	
MCP79522	10	SPI	10 MHz	1.8–3.6	1.3–3.6	700	Vcc Fail and Vcc Restore	64	2	EUI-64	128	2 Alarms (0.01sec)	IRQ/CLK	0.01 sec	–255 to +255 ppm (1 ppm steps)	–40 to +85	10/MSOP 10/TDFN	
MCP795W10	14	SPI	10 MHz	1.8–3.6	1.3–3.6	700	Vcc Fail and Vcc Restore	64	1	Blank	128	2 Alarms (0.01sec)	IRQ WDO CLKOUT	0.01 sec	–255 to +255 ppm (1 ppm steps)	–40 to +85	14/TSSOP 14/SOIC 150 mil	

RTCC																	
Product	Pin Count	Interface	Max Interface Speed	Vcc Range (V)	Vbat Range (V)	Ibat Current (nA)	Power-Fail Timestamp	User SRAM (Bytes)	EEPROM (Kbits)	Unique ID (MAC Address)	Unique ID (Bits)	Alarms	Outputs	Minimum Clock Count	Digital Trimming	Temperature Range	Packages
MCP795W11	14	SPI	10 MHz	1.8–3.6	1.3–3.6	700	Vcc Fail and Vcc Restore	64	1	EUI-48	128	2 Alarms (0.01sec)	IRQ WDO CLKOUT	0.01 sec	–255 to +255 ppm (1 ppm steps)	–40 to +85	14/TSSOP 14/SOIC 150 mil
MCP795W12	14	SPI	10 MHz	1.8–3.6	1.3–3.6	700	Vcc Fail and Vcc Restore	64	1	EUI-64	128	2 Alarms (0.01sec)	IRQ WDO CLKOUT	0.01 sec	–255 to +255 ppm (1 ppm steps)	–40 to +85	14/TSSOP 14/SOIC 150 mil
MCP795W20	14	SPI	10 MHz	1.8–3.6	1.3–3.6	700	Vcc Fail and Vcc Restore	64	2	Blank	128	2 Alarms (0.01sec)	IRQ WDO CLKOUT	0.01 sec	–255 to +255 ppm (1 ppm steps)	–40 to +85	14/TSSOP 14/SOIC 150 mil
MCP795W21	14	SPI	10 MHz	1.8–3.6	1.3–3.6	700	Vcc Fail and Vcc Restore	64	2	EUI-48	128	2 Alarms (0.01sec)	IRQ WDO CLKOUT	0.01 sec	–255 to +255 ppm (1 ppm steps)	–40 to +85	14/TSSOP 14/SOIC 150 mil
MCP795W22	14	SPI	10 MHz	1.8–3.6	1.3–3.6	700	Vcc Fail and Vcc Restore	64	2	EUI-64	128	2 Alarms (0.01sec)	IRQ WDO CLKOUT	0.01 sec	–255 to +255 ppm (1 ppm steps)	–40 to +85	14/TSSOP 14/SOIC 150 mil

LIN Transceiver											
Product	Operating Voltage VS Max (V)	Operating Temperature Max (°C)	Sleep Mode Current Max (μA)	Silent Mode Current Max (μA)	Wake Pin	Reset Pin	INH Pin	TXD Dominant Time Out	LIN Voltage Max (V)	Packages	
ATA663211	28	125	18	0	Yes	No	Yes	Yes	40	8/SOIC 8/VDFN	
ATA6662C	27	125	20	0	Yes	No	Yes	Yes	40	8/SOIC	
ATA6663	28	125	20	0	Yes	No	Yes	Yes	40	8/SOIC 8/VDFN	
ATA6664	28	125	20	0	Yes	No	Yes	No	40	8/SOIC	
ATA6670	28	125	40	0	Yes	No	Yes	Yes	40	14/VDFN	
MCP2003	30	125	15	120	Yes	No	Yes	Yes	40	8/DFN 8/SOIC 8/PDIP	
MCP2003A	30	125	15	120	Yes	No	Yes	No	40	8/DFN 8/SOIC 8/PDIP	
MCP2003B	30	150	15	120	Yes	No	Yes	Yes	60	8/SOIC 150 mil 8/DFN 8/SOIC	
MCP2004	27	125	15	120	Yes	No	Yes	Yes	40	8/DFN 8/SOIC 8/PDIP	
MCP2004A	30	125	15	120	Yes	No	Yes	Yes	40	8/PDIP 8/DFN 8/SOIC	

LIN Transceiver with V _{REG}													
Product	Operating Voltage VS Max (V)	Operating Temperature Max (°C)	Sleep Mode Current Max (μA)	Silent Mode Current Max (μA)	V _{REG} Output Voltage (V)	V _{REG} Output Current (mA)	V _{REG} Accuracy (%)	Wake Pin	KL_15 Pin	Reset Pin	INH Pin	LIN Voltage Max (V)	Packages
ATA6623C	27	125	16	76	3.3	85	2	No	No	Yes	No	40	8/SOIC
ATA6625	28	125	15	64	5	85	2	No	No	Yes	No	40	8/SOIC 8/VDFN
ATA6629	27	125	14	50	3.3	85	2	No	No	Yes	No	40	8/SOIC
ATA6631	27	125	14	50	5	85	2	No	No	Yes	No	40	8/SOIC
ATA663201	28	125	0	0	3.3	85	2	No	No	Yes	No	0	8/VDFN
ATA663203	28	125	0	0	5	85	2	No	No	Yes	No	0	8/VDFN
ATA663231	28	125	15	64	3.3	85	2	No	No	Yes	No	40	8/VDFN
ATA663232	28	125	15	64	3.3	85	2	Yes	No	No	No	40	8/VDFN
ATA663254	28	125	15	64	5	85	2	No	No	Yes	No	40	8/SOIC 8/VDFN
ATA663255	28	125	15	64	5	85	2	Yes	No	No	No	40	8/VDFN
MCP2021	18	125	26	190	0	50	33	Yes	No	No	No	30	8/DFN 8/DFN-S 8/PDIP, 8/SOIC 8/SOIC 150 mil
MCP2021A	18	125	8	100	0	70	3	Yes	No	No	No	40	8/DFN 8/PDIP 8/SOIC
MCP2022	18	125	8	100	0	50	3	Yes	No	Yes	No	40	14/PDIP 14/SOIC 150 mil 14/TSSOP
MCP2022A	18	125	8	100	0	70	3	Yes	No	Yes	No	40	14/PDIP 14/SOIC 14/SOIC 150 mil 14/TSSOP
MCP2025	18	125	8	100	0	70	3	Yes	No	Yes	No	40	8/DFN 8/PDIP 8/SOIC

LIN Transceiver with V _{REG} and Watchdog																
Product	Operating Voltage VS Max (V)	Operating Temperature Max (°C)	Sleep Mode Current Max (μA)	Silent Mode Current Max (μA)	V _{REG} Output Voltage (V)	V _{REG} Output Current (mA)	V _{REG} Accuracy (%)	Wake Pin	KL_15 Pin	Reset Pin	Limp Home Pin	INH Pin	Low-Side Driver/Relay Driver	High-Side Driver	LIN Voltage Max (V)	Packages
ATA6622C	27	125	16	76	3.3	85	2	Yes	Yes	Yes	No	No	No	No	40	20/VQFN
ATA6624C	27	125	16	76	5	85	2	Yes	Yes	Yes	No	No	No	No	40	20/VQFN
ATA6626C	27	125	16	76	5	85	2	Yes	Yes	Yes	No	No	No	No	40	20/VQFN
ATA6628	27	125	14	50	3.3	85	2	Yes	Yes	Yes	No	Yes	No	No	40	20/VQFN
ATA6630	27	125	14	50	5	85	2	Yes	Yes	Yes	No	Yes	No	No	40	20/VQFN
ATA663431	28	125	18	64	3.3	85	2	Yes	Yes	Yes	Yes	No	No	Yes	40	16/VDFN
ATA663454	28	125	18	64	5	85	2	Yes	Yes	Yes	Yes	No	No	Yes	40	16/VDFN
ATA664151	28	125	18	55	5	85	2	No	Yes	Yes	No	No	Yes	Yes	40	32/VQFN
MCP2050	18	125	8	100	0	70	3	Yes	No	Yes	No	No	No	No	40	14/SOIC 150 mil 20/QFN 14/SOIC 14/PDIP

LIN Transceiver with V _{REG} and Relay Drive																
Product	Operating Voltage VS Max (V)	Operating Temperature Max (°C)	Sleep Mode Current Max (μA)	Silent Mode Current Max (μA)	V _{REG} Output Voltage (V)	V _{REG} Output Current (mA)	V _{REG} Accuracy (%)	Wake Pin	KL_15 Pin	Reset Pin	INH Pin	Low-Side Driver /Relay Driver	High-Side Driver	LIN Voltage Max (V)	Packages	
ATA663331	28	125	18	64	3.3	85	2	Yes	No	Yes	No	Yes	Yes	40	16/VDFN	
ATA663354	28	125	18	64	5	85	2	Yes	No	Yes	No	Yes	Yes	40	16/VDFN	

LIN System-in-Package (SiP)

Product	Operating Voltage VS Max (V)	Operating Temperature Max (°C)	Sleep Mode Current Max (µA)	Silent Mode Current Max (µA)	VREG Output Voltage (V)	VREG Output Current (mA)	VREG Accuracy (%)	Wake Pin	KL_15 Pin	Reset Pin	Limp Home Pin	INH Pin	Low-Side Driver / Relay Driver	High-Side Driver	Max I/O Pins	Flash (kB)	SPI	I ² C	U(S)ART	SRAM (kB)	EEPROM (kB)	Hardware Touch Peripheral	LIN Voltage Max (V)	Packages
ATA6612C	27	125	16	76	5	85	2	Yes	Yes	Yes	No	Yes	No	No	23	8	1	1	1	1	0.5	None	40	48/VQFN
ATA6613C	27	125	16	76	5	85	2	Yes	Yes	Yes	No	Yes	No	No	23	16	1	1	1	1	0.5	None	40	48/VQFN
ATA6614Q	27	125	14	50	5	85	2	Yes	Yes	Yes	No	Yes	No	No	23	32	1	1	1	2	1	None	40	48/VQFN
ATA6616C	27	125	16	76	5	85	2	Yes	Yes	Yes	No	Yes	No	No	16	8	1	1	1	0.5	0.5	None	40	38/VQFN
ATA6617C	27	125	16	76	5	85	2	Yes	Yes	Yes	No	Yes	No	No	13	16	1	1	1	0.5	0.5	None	40	8/VQFN
ATSAMHA0E14A-B	28	105	15	64	3.3	85	2	No	No	Yes	No	No	No	No	19	16	4	4	4	4	0.5	None	40	Please call for package information
ATSAMHA0E15A-B	28	105	15	64	3.3	85	2	No	No	Yes	No	No	No	No	19	32	4	4	4	4	1	None	40	Please call for package information
ATSAMHA0E16A-B	28	105	15	64	3.3	85	2	No	No	Yes	No	No	No	No	19	64	4	4	4	8	2	None	40	Please call for package information
ATSAMHA0G14A-B	28	105	15	64	3.3	85	2	No	No	Yes	No	No	No	No	32	16	6	6	6	4	0.5	None	40	Please call for package information
ATSAMHA0G15A-B	28	105	15	64	3.3	85	2	No	No	Yes	No	No	No	No	32	32	6	6	6	4	1	None	40	Please call for package information
ATSAMHA0G16A-B	28	105	15	64	3.3	85	2	No	No	Yes	No	No	No	No	32	64	6	6	6	8	2	None	40	Please call for package information
ATSAMHA1E14A-B	28	105	15	64	3.3	85	2	No	No	Yes	No	No	No	No	19	16	4	4	4	4	0.5	PTC	40	Please call for package information
ATSAMHA1E15A-B	28	105	15	64	3.3	85	2	No	No	Yes	No	No	No	No	19	32	4	4	4	4	1	PTC	40	Please call for package information
ATSAMHA1E16A-B	28	105	15	64	3.3	85	2	No	No	Yes	No	No	No	No	19	64	4	4	4	8	2	PTC	40	Please call for package information
ATSAMHA1G14A-B	28	105	16	64	3.3	85	2	No	No	Yes	No	No	No	No	32	16	6	6	6	4	0.5	PTC	40	Please call for package information
ATSAMHA1G15A-B	28	105	15	64	3.3	85	2	No	No	Yes	No	No	No	No	32	32	6	6	6	4	1	PTC	40	Please call for package information
ATSAMHA1G16A-B	28	105	15	64	3.3	85	2	No	No	Yes	No	No	No	No	32	64	6	6	6	8	2	PTC	40	Please call for package information

CAN Transceiver

Product	CAN FD	Operating Voltage Max (V)	Operating Temperature Max (C)	Bitrate Max (MBit/s)	Short Circuit	Wake-Up Pattern (WUP)	Silent Mode	Standby Mode	Bus Time out detection	Packages
ATA6560	Yes	5.5	125	5	-27 to +42	No	Yes	Yes	Yes	8/SOIC 8/VDFN
ATA6561	Yes	5.5	125	5	-27 to +42	No	No	Yes	Yes	8/SOIC 8/VDFN
ATA6562	Yes	5.5	150	5	-27 to +42	Yes	Yes	Yes	Yes	8/SOIC 8/VDFN
ATA6563	Yes	5.5	150	5	-27 to +42	Yes	No	Yes	Yes	8/SOIC 8/VDFN
ATA6564	Yes	5.5	150	5	-27 to +42	No	Yes	No	Yes	8/SOIC 8/VDFN
ATA6565	Yes	5.5	150	5	-27 to +42	Yes	No	Yes	Yes	14/VDFN
ATA6566	Yes	5.5	150	2	-27 to +42	Yes	No	Yes	Yes	8/SOIC 8/VDFN
MCP2542FD	Yes	5.5	150	8	-58 to +58	No	No	Yes	Yes	8/DFN 8/SOIC 8/SOIC 150 mil 8/TDFN
MCP2544FD	Yes	5.5	150	8	-58 to +58	No	No	Yes	Yes	8/DFN 8/SOIC 8/TDFN
MCP2551	No	5.5	125	1	-40 to +40	No	No	Yes	No	8/PDIP 8/SOIC 8/SOIC 150 mil
MCP2557FD	Yes	5.5	150	8	-58 to +58	No	Yes	No	Yes	8/DFN 8/SOIC 8/TDFN
MCP2558FD	Yes	5.5	150	8	-58 to +58	No	Yes	No	Yes	8/DFN 8/SOIC 8/TDFN
MCP2561	No	5.5	150	1	-58 to +58	No	No	Yes	Yes	8/DFN 8/PDIP 8/SOIC
MCP25612FD	Yes	5.5	150	8	-58 to +58	No	No	Yes	Yes	14/SOIC 14/SOIC 150 mil
MCP2561FD	Yes	5.5	150	8	-58 to +58	No	No	Yes	Yes	8/DFN 8/PDIP 8/SOIC
MCP2562	No	5.5	150	1	-58 to +58	No	No	Yes	Yes	8/DFN 8/PDIP 8/SOIC
MCP2562FD	No	5.5	150	8	-58 to +58	No	No	Yes	Yes	8/DFN 8/PDIP 8/SOIC

CAN PN Transceiver													
Product	CAN FD	Operating Voltage Max (V)	Operating Temperature Max (C)	Bitrate Max (MBit/s)	Short Circuit	Wake-Up Frame (WUF)	Silent Mode	Bus Time Out Detection	Wake Up Filter Time tFilter (us)	Watchdog	VIO Pin	Wake Pin	Packages
ATA6570	Yes	28	150	5	−27 to +42	Yes	Yes	Yes	0.5 to 1.8	Yes	Yes	Yes	14/SOIC
CAN External Controllers													
Product	Operating Voltage (V)	Temp. Range (°C)	Tx Buffers	Rx Buffers	Filters	Masks	Interrupt Output	Packages					
MCP2515	2.7–5.5	−40 to +125	3	2	6	2	1	18/PDIP 18/SOIC 300mil 20/QFN 20/TSSOP 20/VQFN					
MCP2517FD	2.7–5.5	−40 to +150	0	0	32	32	3	14/SOIC 150 mil 14/VDFN					
MCP2518FD	2.7–5.5	−40 to +150	0	0	32	32	–	Please call for package information					
CAN Controller with Integrated Transceiver													
Product	CAN FD	Operating Voltage Max (V)	Operating Temperature Max (C)	Serial Bus	Serial Bus Speed (MHz)	Tx Buffers	Rx Buffers	Digital I/O	TxD Dominant Detector	Standby Mode	Packages		
MCP25625	No	5.5	125	Yes	10	3	2	5	Yes	Yes	28/QFN 28/SSOP 208 mil		
Ethernet Controller													
Product	Ethernet Bandwidth	Interface	MAC	PHY	TX/RX RAM Buffer(Bytes)	WOL	EEE	LEDs	Cable Diag	VDD I/O (V)	Temp Range Max. (°C)	Packages	
KSZ8851	10/100Mbps	8-/16-/32-bit or SPI	Yes	Yes	12 KB (RX) 6 KB (TX)	Yes	No	2	Yes	1.8/2.5/3.3	85	32/VQFN 48/LQFP 128/PQFP	
LAN89218	10/100Mbps	32-bit Host Bus	Yes	Yes	16K	No	No	3	No	3.3	85	100/LQFP	
LAN89730	10/100Mbps	HSIC	Yes	Yes	28K	Yes	No	3	No	3.3	85	56/VQFN	
Ethernet PHY													
Product	Ethernet Bandwidth	Interface	Ethercat	Fiber Support	LEDs	Internal Regular	MAC I/O Voltage	WOL	Temp Range Max. (°C)	Packages			
KSZ8041	10/100Mbps/FX	MII/RMII/SMII	Yes	Yes	2	Yes	3.3	No	85	32/VQFN 48/LQFP 48/TQFP			
KSZ8051	10/100Mbps	MII/RMII	Yes	No	2	Yes	1.8/2.5/3.3	No	105	32/VQFN			
KSZ8061	10/100Mbps	MII/RMII	Yes	No	2	No	1.8/2.5/3.3	No	105	32/VQFN 48/VQFN			
KSZ9031	10/100/1000Mbps	MII/RGMII/GMII	No	No	2	Yes	1.8/2.5/3.3	Yes	105	48/VQFN 64/VQFN			
LAN88730	10/100Mbps	MII/RMII	–	–	2	–	–	Yes	105	32/VQFN			

Ethernet Switch												
Product	Ethernet Bandwidth	# Ethernet Ports	Interface	Fiber Support	EEE	IEEE 1588	LEDs	Op. Voltage (V)	V _{DD} I/O (V)	WOL	Temp Range Max.(° C)	Packages
KSZ8563	10/100 Mbps	3	MII/RMII/RGMII	No	Yes	Yes	4	3.3	1.8/2.5/3.3	Yes	85	64/VQFN
KSZ8565	10/100 Mbps	5	MII/RMII/RGMII	No	Yes	Yes	8	3.3	1.8/2.5/3.3	Yes	105	128/TQFP
KSZ8567	10/100 Mbps	7	MII/RMII/RGMII/SGMII	SGMII	Yes	Yes	10	3.3	1.8/2.5/3.3	Yes	105	128/TQFP
KSZ8842	10/100 Mbps	3	Host Bus/PCI	No	No	No	6	3.3	3.3/5.0	No	85	100/LFBGA 128/LQFP 128/PQFP
KSZ8864	10/100 Mbps	4	MII(2)/RMII(2)	No	No	No	4	3.3	1.8/2.5/3.3	No	85	64/VQFN
KSZ8873	10/100 Mbps	3	MII/RMII/MII(2)	100FX (2)	No	No	4	3.3	1.8/2.5/3.3	No	85	64/LQFP
KSZ8893	10/100 Mbps	3	MII/RMII	100FX,FL,SX	No	No	8	3.3	2.5/3.3	No	85	100/LFBGA 128/PQFP
KSZ8895	10/100 Mbps	5	MII/RMII	100FX (2)	No	No	15	3.3	1.8/2.5/3.3	No	85	128/LQFP 128/PQFP
KSZ9563	10/100/1000 Mbps	3	MII/RMII/RGMII	No	Yes	Yes	4	3.3	1.8/2.5/3.3	Yes	85	64/VQFN
KSZ9893	10/100/1000 Mbps	3	MII/RMII/RGMII	No	Yes	No	4	3.3	1.8/2.5/3.3	Yes	85	64/VQFN

MOST INIC							
Product	MOST Speed Grade	PHY Type	Interfaces	Content Protection Support	Operating Voltage (V)	Temp Range Max.(°C)	Packages
OS8104A	25 Mbps	Optical	I ² C, I ² S, S/PDIF, Parallel	No	3.3	95	QFP44, ETQFP44
OS81050	25 Mbps	Optical	I ² C, I ² S, MediaLB	With companion IC	3.3/2.5	105	TQFP44, ETQFP44
OS81060	25 Mbps	Optical	I ² C, I ² S, MediaLB	With companion IC	3.3/1.8	105	QFN40
OS81092	50 Mbps	UTP	I ² C, I ² S, MediaLB	With companion IC	3.3/1.8	105	QFN48
OS81110	150 Mbps	Optical, coax*	I ² C, I ² S, MediaLB,SPI, TSI	With companion IC	3.3/1.8	105	QFN48
OS81118	150 Mbps	Optical, coax (integrated)*	I ² C, Streaming Port, MediaLB,SPI, USB	With companion IC	3.3/1.8/1.2	125	QFN72
OS81119	150 Mbps	Dual Port: optical, coax (integrated)	I ² C, I ² S, MediaLB,SPI, USB	With companion IC	3.3/1.8/1.2	125	QFN88
OS81210	50 Mbps	Unshielded Twisted Pair (UTP)	I ² C, I ² S/TDM/PDM, MediaLB,SPI, USB	With companion IC	3.3/1.8/1.2	125	QFN64
OS81212	50 Mbps	Unshielded Twisted Pair (UTP)	I ² C, I ² S/TDM/PDM, MediaLB,SPI, USB	With companion IC	3.3/1.8	125	QFN56
OS81214	50 Mbps	Unshielded Twisted Pair (UTP)	I ² C, I ² S/TDM/PDM,SPI	With companion IC	3.3/1.8	125	QFN48
OS82150	150 Mbps	Coax	Interface to MOST150 INIC	–	3.3	105	16-pin, 4 mm QFN

MOST Multimedia Companion							
Product	MOST Speed Grade	Interfaces	Content Protection Support	Min. Operating Voltage (V)	Max Operating Voltage (V)	Temp Range Max.(°C)	Packages
MPM85000	25 Mbps, 50 Mbps, 150 Mbps	I ² C, LIN	No	5.5	32	105	QFN24
OS85621	25 Mbps, 50 Mbps, 150 Mbps	I ² C, Video Port, Streaming Port, MediaLB, TSI	DTCP	1.2	3.3	105	BGA 196
OS85623	25 Mbps, 50 Mbps, 150 Mbps	I ² C, Video Port, Streaming Port, MediaLB, TSI	No	1.2	3.3	105	BGA 196
OS85650	25 Mbps, 50 Mbps, 150 Mbps	I ² C, Streaming Port, MediaLB, HBI,SPI, TSI	DTCP	1.8	3.3	105	ETQFP128
OS85652	25 Mbps, 50 Mbps, 150 Mbps	I ² C, Streaming Port, MediaLB, HBI,SPI, TSI	No	1.8	3.3	105	ETQFP128
OS85654	25 Mbps, 50 Mbps, 150 Mbps	I ² C, Streaming Port, MediaLB,SPI, TSI	DTCP	1.8	3.3	105	QFN48
OS85656	25 Mbps, 50 Mbps, 150 Mbps	I ² C, Streaming Port, MediaLB,SPI, TSI	No	1.8	3.3	105	QFN48

USB Hubs									
Product	Upstream Port	USB Speed	Downstream Ports	MGMT I/F	ROM I/F	Op Voltage (V)	Charging Emulation	Temp Range Max.(°C)	Packages
USB4715	USB 2.0	High Speed	4	I ² C	SPI, I ² C for OTP	3.3	BC1.2, Apple	85	48/VQFN
USB4914	USB 2.0	High Speed	3	I ² C	SPI, I ² C for OTP	3.3	BC1.2, Apple, China	85	48/VQFN
USB4916	USB 2.0	High Speed	5	I ² C	SPI, I ² C for OTP	3.3	BC1.2, Apple, China	85	64/VQFN
USB4925	USB 2.0	High Speed	3	I ² C	SPI, I ² C for OTP	3.3	BC1.2, Apple, China	85	48/VQFN
USB4927	USB 2.0	High Speed	5	I ² C	SPI, I ² C for OTP	3.3	BC1.2, Apple, China	85	64/VQFN
USB7002	USB 3.1 Gen1	USB 3.1 Gen1	4	I ² C	SPI	3.3	BC1.2, Apple, China	85	100/VQFN
USB82512	USB 2.0	High Speed	2	No	I ² C	3.3	No	85	36/VQFN
USB82513	USB 2.0	High Speed	3	No	I ² C	3.3	No	85	36/VQFN
USB82514	USB 2.0	High Speed	4	No	I ² C	3.3	No	85	36/VQFN
USB82640	USB 2.0	High Speed	2	No	I ² C,SPI	3.3	No	85	48/VQFN
USB82642	USB 2.0	High Speed	2	No	I ² C,SPI	3.3	No	85	48/VQFN
USB84602	USB 2.0 or HSIC	High Speed	2	I ² C	SPI, I ² C for OTP	3.3	BC1.2, Apple	85	48/VQFN
USB84604	USB 2.0 or HSIC	High Speed	4	I ² C	SPI, I ² C for OTP	3.3	BC1.2, Apple	85	48/VQFN

USB Port Power Control						
Product	Description	USB Port Power Switch	Hi-Speed USB 2.0 Switch	8 Resistor Set Current Limits	Interface	Packages
UCS81001	Automotive USB Port Power Controller with Charger Emulation	1	1	Up to 2.5A	I ² C /SMBus	28/VQFN
UCS81002	Automotive USB Port Power Controller with Charger Emulation	1	1	Up to 2.5A	I ² C /SMBus	28/VQFN
UCS81003	Automotive USB Port Power Controller with Charger Emulation	1	1	Up to 2.7A	I ² C /SMBus	28/VQFN

USB Transceivers									
Product	Upstream Port	USB Speed	Downstream Ports	I/O Voltage (V)	OTG	Reference Clock Freq.	Battery Charger Detection	Temp Range Max.(°C)	Packages
USB83340	ULPI	High Speed	USB	1.8–3.3	No	Multi	Yes	105	32/VQFN

USB to Ethernet

Product	Ethernet Bandwidth	MAC	PHY	LEDs	Op. Voltage (V)	# Downstream Ethernet/USB Ports	Interface	Wake-on-LAN	EEE	Temp Range Max. (°C)	Packages
LAN7431	10/100/1000Mbps	Yes	No	4	3.3	RGMII x1	PCIe 3.1 at 2.5GT/s	No	–	105	72/VQFN
LAN7801	10/100/1000Mbps	Yes	No	4	3.3	RGMII x1	USB 3.1 Gen 1	Yes	–	105	64/VQFN
LAN89530	10/100Mbps	Yes	Yes	3	3.3	Ethernet x1	USB 2.0	No	No	85	56/VQFN
LAN89730	10Base-T/100Base-TX	Yes	Yes	3	3.3	Ethernet x1	USB 2.0 (HSIC), MII	No	No	85	56/VQFN

Automotive Timing Solutions

Product	Output Frequency Min. (MHz)	Output Frequency Max. (MHz)	Output	Frequency Stability (ppm)	Temperature Range (°C)	Supply Voltage	Current (mA)	Period Jitter (pk-pk, ps RMS)	Control Pin Function	Output Drive Strength (pF)	Dimensions	Packages
DSA1001	1	150	LVC MOS	±20, ±25, ±50	–40 to +105	1.7–3.6	5	6	Standby	15	5.0 × 3.2 mm, 3.2 × 2.5 mm, 2.5 × 2.0 mm 4-pin	4/VDFN
DSA1101	2.3	170	LVC MOS	±20, ±25, ±50	–40 to +125	2.25–3.6	21	3	Standby	15	5.0 × 3.2 mm, 3.2 × 2.5 mm, 2.5 × 2.0 mm 4-pin	6/VDFN
DSA1105	2.3	170	LVC MOS	±20, ±25, ±50	–40 to +125	2.25–3.6	20	3	Standby	5	5.0 × 3.2 mm, 3.2 × 2.5 mm, 2.5 × 2.0 mm 4-pin	6/VDFN
DSA1121	2.3	170	LVC MOS	±20, ±25, ±50	–40 to +125	2.25–3.6	25	3	OE	15	5.0 × 3.2 mm, 3.2 × 2.5 mm, 2.5 × 2.0 mm 4-pin	6/VDFN
DSA1125	2.3	170	LVC MOS	±20, ±25, ±50	–40 to +125	2.25–3.6	20	3	OE	5	5.0 × 3.2 mm, 3.2 × 2.5 mm, 2.5 × 2.0 mm 4-pin	6/VDFN
DSA2311	0	0	–	–	–	–	–	–	–	–	–	6/VDFN
DSA2311	2.3	170	LVC MOS x 2	±20, ±25, ±50	–40 to +125	2.25 × 3.63	23	3	OE	15	2.5 × 2.0 mm 6-pin	6/VDFN

Automotive Car Access

Product	Temperature Range (°C)	Crypto Engine	Operating Voltage (Vcc)	Embedded µc	Flash Size	Packages
ATA5021	–40 to +125	–	4.5V to 5V	–	–	8/SOIC
ATA5279C	–	–	–	–	–	48/VQFN
ATA5291	–	–	–	–	–	48/VQFN
ATA5700	–40 to +85	–	2.0 to 4.2	–	–	38/VQFN
ATA5702	–40 to +85	–	2.0 to 4.2	–	–	38/VQFN
ATA5723C	–40 to +105	–	4.5 to 5.5	–	–	Please call for package information
ATA5724C	–40 to +105	–	4.5 to 5.5	–	–	Please call for package information
ATA5728C	–40 to +105	–	4.5 to 5.5	–	–	Please call for package information
ATA5745C	–40 to +105	–	2.7 to 3.3 or 4.5 to 5.5	–	–	24/VQFN
ATA5746C	–40 to +105	–	2.7 to 3.3 or 4.5 to 5.5	–	–	24/VQFN
ATA5749C	–	–	–	–	–	10/MSOP
ATA5756	–	–	–	–	–	Please call for package information
ATA5757	–	–	–	–	–	Please call for package information
ATA5771C	–	–	–	–	–	24/VQFN
ATA5773C	–	–	–	–	–	24/VQFN
ATA5774C	–	–	–	–	–	24/VQFN

Automotive Car Access						
Product	Temperature Range (°C)	Crypto Engine	Operating Voltage (Vcc)	Embedded μ c	Flash Size	Packages
ATA5780N	–	–	–	Yes	–	32/VQFN
ATA5782	–	–	–	Yes	20 KByte	32/VQFN
ATA5795C	–40 to +85	AES	–	Yes	8 KByte	32/VQFN
ATA5823	–40 to +105	–	2.15 to 3.6 or 4.4 to 5.25	–	–	Please call for package information
ATA5824	–40 to +105	–	2.15 to 3.6 or 4.4 to 5.25	–	–	Please call for package information
ATA5830	–	–	–	Yes	6 KByte	32/VQFN
ATA5830N	–	–	–	Yes	6 KByte	32/VQFN
ATA5831	–	–	–	Yes	20 KByte	32/VQFN
ATA5833	–	–	–	Yes	–	32/VQFN
ATR4251C	–40 to +105	–	–	–	–	20/TSSOP 24/VQFN
ATR4252C	–40 to +105	–	7–11	–	–	28/VQFN
ATR4253C	–40 to +105	–	–	–	–	16/VQFN
T5750C	–40 to +125	–	2.0 to 4.0	–	–	8/MSOP
T5753C	–	–	–	–	–	8/MSOP
T5754C	–	–	–	–	–	8/MSOP

Touch Solutions Touchscreen Controllers							
Product	Interface Type	Max. Screen	Operating Voltage Range (Vcc)	Automotive Qualified	Temperature Range (°C)	Nodes	Packages
ATMXT1067TD-A	I ² C	10.5	3.14 to 3.47	Yes	–40 to +105	1066	128/TQFP
ATMXT1189T-A	I ² C and SPI	13	3.14 to 3.47	Yes	–40 to +105	1188	144/LQFP
ATMXT1665T-A	I ² C and SPI	15	3.14 to 3.47	Yes	–40 to +105	1664	144/LQFP
ATMXT2113TD-A	I ² C and SPI	15	3.14 to 3.47	Yes	–40 to +105	2112	144/LQFP
ATMXT224S-A	I ² C	4.3	2.57 to 3.47	Yes	–40 to +85	224	64/TQFP
ATMXT225T-A	I ² C and SPI	5	3.14 to 3.47	Yes	–40 to +105	224	100/TQFP
ATMXT225TD-A	I ² C and SPI	5	3.14 to 3.47	Yes	–40 to +105	224	100/TQFP
ATMXT2912TD-A	I ² C and SPI	20	3.14 to 3.47	Yes	–40 to +105	2911	176/LQFP
ATMXT336S-A	I ² C	7	2.57 to 3.47	Yes	–40 to +85	336	64/TQFP
ATMXT449T-A	I ² C and SPI	8	3.14 to 3.47	Yes	–40 to +105	448	100/TQFP
ATMXT449TD-A	I ² C and SPI	8	3.14 to 3.47	Yes	–40 to +105	448	100/TQFP
ATMXT641T-A	I ² C and SPI	9	3.14 to 3.47	Yes	–40 to +105	640	100/TQFP
ATMXT641TD-A	I ² C and SPI	9	3.14 to 3.47	Yes	–40 to +105	640	100/TQFP
ATMXT799T-A	I ² C and SPI	11	3.14 to 3.47	Yes	–40 to +105	798	144/LQFP

3D Tracking and Gesture										
Product	Input Channels	Proximity Detection	Output Channels	Report Rate (pps)	Power Modes	Interface	I/O, LED Drivers	Voltage Min. (V)	Voltage Max. (V)	Packages
MGC3140	5	Yes	5	200	3	I ² C	5	3.14	3.47	48/UQFN

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