

SILICON LABS Microcontrollers



This product is RoHS compliant.



MCU / MPU / DSP

ULTRA LOW POWER MCU'S



For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package	MIPS (Peak)	Flash (KB)	RAM (bytes)	Digital Port I/O Pins	Interfaces				Analog Peripherals							Price Each			
Mfr.	Mfr. Part No.						UART	I2C	SPI	EMIF	Internal Osc.	Timers	PCA Ch.	ADC	DAC	Temp Sensor	VREF	Comparators	1	25	100
634	—C8051F985-GM	QFN-20	25	2	512	16	Yes	Yes	Yes	No	±2%	4 16-bit	3	-----	No	Yes	Yes	1	2.08	2.00	1.93
634	—C8051F982-GM	QFN-20	25	4	512	16	Yes	Yes	Yes	No	±2%	4 16-bit	3	10-bit	No	Yes	Yes	1	2.40	2.31	2.20
634	—C8051F983-GM	QFN-20	25	4	512	16	Yes	Yes	Yes	No	±2%	4 16-bit	3	-----	No	Yes	Yes	1	2.18	2.10	2.01
634	—C8051F988-GM	QFN-24	25	4	512	17	Yes	Yes	Yes	No	±2%	4 16-bit	3	10-bit	No	Yes	Yes	1	2.52	2.42	2.32
634	—C8051F988-GU	QSOP-24	25	4	512	17	Yes	Yes	Yes	No	±2%	4 16-bit	3	10-bit	No	Yes	Yes	1	2.70	2.50	2.32
634	—C8051F989-GM	QFN-24	25	4	512	17	Yes	Yes	Yes	No	±2%	4 16-bit	3	-----	No	Yes	Yes	1	2.28	2.19	2.10
634	—C8051F989-GU	QSOP-24	25	4	512	17	Yes	Yes	Yes	No	±2%	4 16-bit	3	-----	No	Yes	Yes	1	2.28	2.19	2.10
634	—C8051F980-GM	QFN-20	25	8	512	16	Yes	Yes	Yes	No	±2%	4 16-bit	3	12-bit	No	Yes	Yes	1	3.10	2.87	2.46
634	—C8051F981-GM	QFN-20	25	8	512	16	Yes	Yes	Yes	No	±2%	4 16-bit	3	-----	No	Yes	Yes	1	2.33	2.24	2.16
634	—C8051F986-GM	QFN-24	25	8	512	17	Yes	Yes	Yes	No	±2%	4 16-bit	3	12-bit	No	Yes	Yes	1	2.80	2.69	2.58
634	—C8051F986-GU	QSOP-24	25	8	512	17	Yes	Yes	Yes	No	±2%	4 16-bit	3	12-bit	No	Yes	Yes	1	3.00	2.78	2.58
634	—C8051F987-GM	QFN-24	25	8	512	17	Yes	Yes	Yes	No	±2%	4 16-bit	3	-----	No	Yes	Yes	1	2.45	2.35	2.26
634	—C8051F987-GU	QSOP-24	25	8	512	17	Yes	Yes	Yes	No	±2%	4 16-bit	3	-----	No	Yes	Yes	1	2.63	2.44	2.26
634	—C8051F901-GM	QFN-24	25	8	768	16	Yes	Yes	2	No	2%	4 16-bit	6	10-bit	No	Yes	Yes	2	3.33	3.08	2.86
634	—C8051F901-GU	QSOP-24	25	8	768	16	Yes	Yes	2	No	2%	4 16-bit	6	10-bit	No	Yes	Yes	2	3.49	3.24	3.00
634	—C8051F902-GM	QFN-24	25	8	768	16	Yes	Yes	2	No	2%	4 16-bit	6	12-bit	No	Yes	Yes	2	3.63	3.36	3.12
634	—C8051F902-GU	QSOP-24	25	8	768	16	Yes	Yes	2	No	2%	4 16-bit	6	12-bit	No	Yes	Yes	2	3.81	3.53	3.27
634	—C8051F911-GM	QFN-24	25	16	768	16	Yes	Yes	2	No	2%	4 16-bit	6	10-bit	No	Yes	Yes	2	3.69	3.42	3.17
634	—C8051F911-GU	QSOP-24	25	16	768	16	Yes	Yes	2	No	2%	4 16-bit	6	12-bit	No	Yes	Yes	2	3.87	3.58	3.32
634	—C8051F912-GM	QFN-24	25	16	768	16	Yes	Yes	2	No	2%	4 16-bit	6	12-bit	No	Yes	Yes	2	4.39	3.96	3.43
634	—C8051F912-GU	QSOP-24	25	16	768	16	Yes	Yes	2	No	2%	4 16-bit	6	12-bit	No	Yes	Yes	2	4.17	3.86	3.58
634	—C8051F920-GM	QFN-32	25	32	4352	24	Yes	Yes	2	Yes	2%	4 16-bit	6	10-bit	No	Yes	Yes	2	4.89	4.53	4.20
634	—C8051F920-GQ	LQFP-32	25	32	4352	24	Yes	Yes	2	Yes	2%	4 16-bit	6	10-bit	No	Yes	Yes	2	5.78	5.35	4.96
634	—C8051F921-GM	QFN-24	25	32	4352	16	Yes	Yes	2	No	2%	4 16-bit	6	10-bit	No	Yes	Yes	2	4.42	4.09	3.79
634	—C8051F930-GM	QFN-32	25	64	4352	24	Yes	Yes	2	Yes	2%	4 16-bit	6	10-bit	No	Yes	Yes	2	5.49	5.08	4.71
634	—C8051F930-GQ	LQFP-32	25	64	4352	24	Yes	Yes	2	Yes	2%	4 16-bit	6	10-bit	No	Yes	Yes	2	6.52	6.03	5.59
634	—C8051F931-GM	QFN-24	25	64	4352	16	Yes	Yes	2	No	2%	4 16-bit	6	10-bit	No	Yes	Yes	2	4.92	4.55	4.22

SMART INTERFACE ICs

USB to UART Bridge



For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package	EEPROM (bytes)	FIFO (bytes)	Digital Port I/O Pins	Serial Buses	Analog Peripherals				Price Each		
Mfr.	Mfr. Part No.						Internal Osc.	VREG	RS485	Split VDDIO	1	25	100
634	—CP2105-F01-GM	QFN-24	296	608	---	UART, USB 2.0	Yes	Yes	Yes	Yes	3.18	2.29	2.11
634	—CP2110-F01-GM	QFN-24	343	960	10	UART, USB 2.0	Yes	Yes	Yes	Yes	3.10	2.32	2.05
634	—CP2110-F02-GM1	QFN-28	343	960	10	UART, USB 2.0	Yes	Yes	Yes	Yes	2.18	2.04	1.91
634	—CP2101-GM	QFN-28	512	1K	---	USB to UART Bridge	Yes	Yes	No	No	4.30	3.98	3.69
634	—CP2102-GM	QFN-28	1024	1K	---	USB to UART Bridge	Yes	Yes	No	No	3.41	3.16	2.93
634	—CP2103-GM	QFN-28	1024	1K	4	USB to UART Bridge	Yes	Yes	Yes	Yes	4.60	4.26	3.95
634	—CP2104-F03-GM	QFN-24	1024	1152	4	UART, USB 2.0	Yes	Yes	Yes	Yes	3.08	2.21	2.05
Evaluation Kit Description											29.00	---	---
634—CP2104EK Evaluation kit for the CP2104 USB to UART bridge. Includes a USB cable, serial cable and full documentation.											39.00	---	---
634—CP2105EK Evaluation kit for the CP2105 USB to Dual UART bridge. Includes a USB cable, two serial cables and full documentation.											39.00	---	---
634—CP2110EK Evaluation kit for the CP2110 HID USB to UART bridge. Includes a USB cable, serial cable and full documentation.											39.00	---	---

Single-Chip USB HID Touch-Screen Bridge



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Silicon Labs Part No.	Package	Flash (bytes)	RAM (bytes)	Digital Port I/O Pins	GPIO	Communications	Analog Peripherals		Price Each			
								Internal Osc.	VREG	1	25	100	
634	—CP2501-B01-GM	QFN-32	53K	3.5K	25	16	I2C, SPI, UART, USB	Yes	Yes	4	9.54	8.67	7.86
Development Kit Description										50.00	---	---	
634-CP2501DK CP2501 Dev Kit includes motherboard, daughterboard, quick-start guide, CD, AC-DC universal power adaptor and two USB cables										50.00	---	---	

SPI to I2C Expander

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Silicon Labs Part No.	Package	EEPROM (bytes)	FIFO (bytes)	Port I/O Pins	Serial Buses	Analog Peripherals		Price Each			
							Internal Osc.	VREG	1	25	100	
634	—CP2120-GM	CP2120-GM	QFN-20	---	512	9	SPI to I2C Bridge	Yes	Yes	2.74	2.53	2.35

Ethernet Controller ICs

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Silicon Labs Part No.	Package	Flash (KB)	RAM (bytes)	Port I/O Pins	Parallel Host Interface	Parallel Host Interface Speed	LEDs	Temperature Range	Price Each			
										1	25	100	
634	—CP2200-GQ	CP2200-GQ	TQFP-48	8	2K	---	8-bit non-multiplexed EMIF	30 Mbps	Separate link and activity	-40 to +85	7.26	6.72	6.23
634	—CP2201-GM	CP2201-GM	QFN-28	8	2K	---	8-bit multiplexed EMIF	30 Mbps	Combined link and activity	-40 to +85	6.15	5.70	5.28

LCD Controllers

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Silicon Labs Part No.	Package	RAM (bytes)	LCD Segments	I/O Pins	Serial Buses	Analog Peripherals		Temperature Range	Price Each			
							Internal Osc.	Timers		1	25	100	
634	—CP2400-GM	CP2400-GM	QFN-48	256	128	36	SPI	Yes	2 16-bit	-40 to +85	2.16	2.00	1.86
634	—CP2400-GQ	CP2400-GQ	QFP-48	256	128	36	SPI	Yes	2 16-bit	-40 to +85	2.16	2.00	1.86
634	—CP2401-GM	634-CP2401-GM	QFN-48	256	128	36	I2C	Yes	2 16-bit	-40 to +85	2.16	2.00	1.86
634	—CP2401-GQ	634-CP2401-GQ	QFP-48	256	128	36	I2C	Yes	2 16-bit	-40 to +85	2.16	2.00	1.86
634	—CP2402-GM	634-CP2402-GM	QFN-32	256	64	20	SPI	Yes	2 16-bit	-40 to +85	1.50	1.39	1.29
634	—CP2403-GM	634-CP2403-GM	QFN-32	256	64	20	I2C	Yes	2 16-bit	-40 to +85	1.50	1.39	1.29