

SILICON LABS Microcontrollers



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MCU / MPU / DSP
Silicon Labs

USB MICROCONTROLLERS (CONT.)

USB MCUs feature an on-board USB 2.0 function controller with an integrated transceiver and on-chip clock recovery. No external resistors, crystal, voltage regulator, EEPROM or other components are required. On-chip resources include a high-speed 8051 CPU with up to 64KB Flash, UARTs, SMBus, SPI, timers, counters and PWM generators. On-chip analog features include a multi-channel 10-bit ADC, voltage reference, internal oscillator, comparators and a temperature sensor. Available in 28-pin QFN, 32-pin LQFP or 48-pin TQFP packages, these devices provide a single-chip solution for embedded USB applications.



RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.		Package	MIPS (Peak)	Flash Mem. (KB)	RAM (bytes)	Digital Port I/O Pins	Interfaces					Analog Peripherals							Price Each			
Mfr.	Mfr. Part No.						UART	I2C	SPI	SMBus	USB	Internal Osc.	Timers	PCA Ch.	ADC	DAC	Temp Sensor	VREF	Comparators	1	25	100
634	C8051F342-GM	QFN-32	48	64	4352	25	Yes	Yes	Yes	No	2.0	±1.5%	4 16-bit	5	10-bit	No	Yes	Yes	2	8.94	8.36	6.96
634	C8051F342-GQ	LQFP-32	48	64	4352	25	Yes	Yes	Yes	No	2.0	±1.5%	4 16-bit	5	10-bit	No	Yes	Yes	2	8.94	8.36	6.96
634	C8051F34A-GM	QFN-32	48	64	4352	25	2	Yes	Yes	No	2.0	±1.5%	4 16-bit	5	10-bit	No	Yes	Yes	2	9.12	8.52	7.11
634	C8051F34A-GQ	LQFP-32	48	64	4352	25	2	Yes	Yes	No	2.0	±1.5%	4 16-bit	5	10-bit	No	Yes	Yes	2	9.12	8.52	7.11
634	C8051F380-GQ	TQFP-48	48	64	4352	40	2	2	Yes	No	2.0	±1.5%	6 16-bit	5	10-bit	No	Yes	Yes	2	5.42	5.06	4.32
634	C8051F381-GM	QFN-32	48	64	4352	25	2	2	Yes	No	2.0	±1.5%	6 16-bit	5	10-bit	No	Yes	Yes	2	5.24	4.90	3.54
634	C8051F381-GQ	LQFP-32	48	64	4352	25	2	2	Yes	No	2.0	±0.5%	6 16-bit	5	10-bit	No	Yes	Yes	2	5.29	4.95	3.59
634	C8051F384-GQ	TQFP-48	48	64	4352	40	2	2	Yes	No	2.0	±1.5%	6 16-bit	5	No	No	No	No	2	5.00	4.67	3.38
634	C8051F385-GM	QFN-32	48	64	4352	25	2	2	Yes	No	2.0	±1.5%	6 16-bit	5	No	No	No	No	2	4.82	4.50	3.26
634	C8051F385-GQ	LQFP-32	48	64	4352	25	2	2	Yes	No	2.0	±1.5%	6 16-bit	5	No	No	No	No	2	4.89	4.57	3.31
634	C8051F34C-GQ	TQFP-48	48	64	5376	40	2	2	No	Yes	Yes	±1.5%	4 16-bit	5	No	No	No	No	2	8.47	7.91	6.60
634	C8051F34D-GQ	LQFP-32	48	64	5376	25	Yes	No	Yes	Yes	2.0	±1.5%	4 16-bit	5	No	No	No	No	2	8.22	7.68	6.41

OTP - USB MICROCONTROLLERS



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Mfr.	Mfr. Part No.						UART	I2C	SPI	SMBus	USB	Internal Osc.	Timers	PCA Ch.	ADC	DAC	Temp Sensor	VREF	Comparators	1	25	100
634	C8051T320-GQ	LQFP-32	48	16	1280	25	2	Yes	Yes	No	2.0	±1.5%	4 16-bit	5	10-bit	No	Yes	Yes	2	3.19	2.98	2.16
634	C8051T321-GM	QFN-28	48	16	1280	21	2	Yes	Yes	No	2.0	±1.5%	4 16-bit	5	10-bit	No	Yes	Yes	2	3.07	2.86	2.07
634	C8051T326-GM	QFN-28	48	16	1280	15	2	Yes	Yes	No	2.0	±1.5%	4 16-bit	5	No	No	No	No	-----	2.08	1.95	1.41
634	C8051T327-GM	QFN-28	48	16	1280	15	2	Yes	Yes	No	2.0	±1.5%	4 16-bit	5	No	No	No	No	-----	2.01	1.88	1.36
634	C8051T620-GM	QFN-32	48	16	1280	24	2	Yes	Yes	No	2.0	±1.5%	4 16-bit	5	10-bit	No	Yes	Yes	2	3.12	2.91	2.11
634	C8051T621-GM	QFN-32	48	16	1280	24	2	Yes	Yes	No	2.0	±1.5%	4 16-bit	5	10-bit	No	No	No	2	2.89	2.70	1.95
634	C8051T626-B-GM	QFN-32	48	32	3328	24	2	Yes	Yes	Yes	Yes	Yes	4 16-bit	5	Yes	No	Yes	Yes	2	2.53	2.44	2.34
634	C8051T627-B-GM	QFN-32	48	64	3328	24	2	Yes	Yes	Yes	Yes	Yes	4 16-bit	5	Yes	No	Yes	Yes	2	2.46	2.37	2.28

SMALL FORM FACTOR MICROCONTROLLERS

The Small Form Factor family of microcontrollers combines a high-speed 8051 CPU, Flash memory and high-performance analog circuits in remarkably small packages allowing system designers to reduce component count while improving system performance. These highly-integrated devices are optimized for space-constrained, low-power, low-cost applications in consumer, industrial, communications and automotive markets. Development is quick and easy due to low-cost, professional development tools and in-system debug. High integration, small size, high CPU throughput and best-in-class analog peripherals make the Small Form Factor family ideal for a wide range of applications.



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MOUSER STOCK NO.		Package	MIPS (Peak)	Flash Mem. (KB)	RAM (bytes)	Digital Port I/O Pins	Interfaces					Analog Peripherals							Price Each		
Mfr.	Mfr. Part No.						UART	I2C	SPI	SMBus	USB	Internal Osc.	Timers	PCA Ch.	ADC	DAC	Temp Sensor	VREF	Comparators	1	25
634	C8051F305-GM	QFN-11	25	2	256	8	Yes	Yes	No	±20%	3 16-bit	3	No	No	No	No	No	1	2.14	2.00	1.67
634	C8051F334-GM	QFN-20	25	2	768	17	Yes	Yes	Yes	±2%	4 16-bit	3	10-bit	No	Yes	No	1	2.49	2.32	1.93	
634	C8051F335-GM	QFN-20	25	2	768	17	Yes	Yes	Yes	±2%	4 16-bit	3	No	No	No	No	1	2.22	2.08	1.72	
634	C8051F304-GM	QFN-11	25	4	256	8	Yes	Yes	No	±20%	3 16-bit	3	No	No	No	No	1	2.21	2.06	1.71	
634	C8051F332-GM	QFN-20	25	4	768	17	Yes	Yes	Yes	±2%	4 16-bit	3	10-bit	No	Yes	No	1	2.92	2.73	2.27	
634	C8051F220-GQ	TQFP-48	25	8	256	32	Yes	No	Yes	±20%	3 16-bit	No	8-bit	No	No	No	2	4.01	3.75	3.14	
634	C8051F221-GQ	TQFP-32	25	8	256	22	Yes	No	Yes	±20%	3 16-bit	No	8-bit	No	No	No	2	3.57	3.34	2.79	
634	C8051F300-GM	QFN-11	25	8	256	8	Yes	Yes	No	±2%	3 16-bit	3	8-bit	No	Yes	No	1	2.75	2.57	2.14	
634	C8051F301-GM	QFN-11	25	8	256	8	Yes	Yes	No	±2%	3 16-bit	3	No	No	No	No	1	2.61	2.44	2.04	
634	C8051F302-GM	QFN-11	25	8	256	8	Yes	Yes	No	±20%	3 16-bit	3	8-bit	No	Yes	No	1	2.56	2.39	1.99	
634	C8051F330-GM	QFN-20	25	8	768	17	Yes	Yes	Yes	±2%	4 16-bit	3	10-bit	10-bit	Yes	No	1	3.91	3.65	3.05	
634	C8051F331-GM	QFN-20	25	8	768	17	Yes	Yes	Yes	±2%	4 16-bit	3	No	No	No	No	1	3.50	3.27	2.73	
634	C8051F206-GQ	TQFP-48	25	8	1280	32	Yes	No	Yes	±20%	3 16-bit	No	8-bit	No	No	No	2	4.87	4.55	3.80	
634	C8051F226-GQ	TQFP-48	25	8	1280	32	Yes	No	Yes	±20%	3 16-bit	No	8-bit	No	No	No	2	4.24	3.96	3.31	
634	C8051F236-GQ	TQFP-48	25	8	1280	32	Yes	No	Yes	±20%	3 16-bit	No	No	No	No	No	2	3.96	3.70	3.07	
634	C8051F312-GQ	LQFP-32	25	8	1280	29	Yes	Yes	Yes	±2%	4 16-bit	5	10-bit	No	Yes	No	2	4.10	3.83	3.19	
634	C8051F313-GM	QFN-28	25	8	1280	25	Yes	Yes	Yes	±2%	4 16-bit	5	10-bit	No	Yes	No	2	3.80	3.55	2.97	
634	C8051F314-GQ	LQFP-32	25	8	1280	29	Yes	Yes	Yes	±2%	4 16-bit	5	No	No	No	No	2	3.45	3.22	2.68	
634	C8051F315-GM	QFN-28	25	8	1280	25	Yes	Yes	Yes	±2%	4 16-bit	5	No	No	No	No	2	3.21	3.00	2.50	
634	C8051F336-GM	QFN-20	25	16	768	17	Yes	Yes	Yes	±2%	4 16-bit	3	10-bit	10-bit	No	No	1	4.29	4.01	3.35	
634	C8051F338-GM	QFN-24	25	16	768	21	Yes	Yes	Yes	±2%	4 16-bit	3	10-bit	10-bit	No	No	1	4.38	4.09	3.41	
634	C8051F310-GQ	LQFP-32	25	16	1280	29	Yes	Yes	Yes	±2%	4 16-bit	5	10-bit	No	Yes	No	2	5.26	4.91	4.10	
634	C8051F311-GM	QFN-28	25	16	1280	25	Yes	Yes	Yes	±2%	4 16-bit	5	10-bit	No	Yes	No	2	4.70	4.39	3.67	
634	C8051F316-GM	QFN-24	25	16	1280	21	Yes	Yes	Yes	±2%	4 16-bit	5	10-bit	No	Yes	No	2	4.24	3.96	3.31	
634	C8051F317-GM	QFN-24	25	16	1280	21	Yes	Yes	Yes	±2%	4 16-bit	5	No	No	No	No	2	3.75	3.50	2.93	
634	C8051F398-A-GM	QFN-20	50	4	1024	17	Yes	2	Yes	±2%	6 16-bit	3	10-bit	2 10-bit	Yes	Yes	Yes	Yes	1.99	1.91	1.84
634	C8051F399-A-GM	QFN-20	50	4	1024	17	Yes	2	Yes	±2%	6 16-bit	3	10-bit	2 10-bit	Yes	Yes	Yes	Yes	1.81	1.74	1.67
634	C8051F374-A-GM	QFN-24	50	8	512	21	Yes	2	Yes	±2%	6 16-bit	3	10-bit	2 10-bit	Yes	Yes	Yes	Yes	2.98	2.87	2.76
634	C8051F375-A-GM	QFN-24	50	8	512	21	Yes	2	Yes	±2%	6 16-bit	3	10-bit	2 10-bit	Yes	Yes	Yes	Yes	2.71	2.61	2.51
634	C8051F394-A-GM	QFN-24	50	8	1024	21	Yes	2	Yes	±2%	6 16-bit	3	10-bit	2 10-bit	Yes	Yes	Yes	Yes	2.70	2.60	2.50
634	C8051F395-A-GM	QFN-24	50	8	1024	21	Yes	2	Yes	±2%	6 16-bit	3	10-bit	2 10-bit	Yes	Yes	Yes	Yes	2.43	2.34	2.25
634	C8051F396-A-GM	QFN-20	50	8	1024	17	Yes	2	Yes	±2%	6 16-bit	3	10-bit	2 10-bit	Yes	Yes	Yes	Yes	2.64	2.55	2.45
634	C8051F397-A-GM	QFN-20	50	8	1024	17	Yes	2	Yes	±2%	6 16-bit	3	10-bit	2 10-bit	Yes	Yes	Yes	Yes	2.38	2.29	2.20
634	C8051F370-A-GM	QFN-24	50	16	512	21	Yes	2	Yes	±2%	6 16-bit	3	10-bit	2 10-bit	Yes	Yes	Yes	Yes	3.25	3.13	3.01
634	C8051F371-A-GM	QFN-24	50	16	512	21	Yes	2	Yes	±2%	6 16-bit	3	10-bit	2 10-bit	Yes	Yes	Yes	Yes	2.79	2.69	2.58
634	C8051F390-A-GM	QFN-24	50	16	1024	21	Yes	2	Yes	±2%	6 16-bit	3	10-bit	2 10-bit	Yes	Yes	Yes	Yes	2.97	2.86	2.75
634	C8051F391-A-GM	QFN-24	50	16	1024	21	Yes	2	Yes	±2%	6 16-bit	3	10-bit	2 10-bit	Yes	Yes	Yes	Yes	2.51	2.42	2.32
634	C8051F392-A-GM	QFN-24	50	16	1024	17	Yes	2	Yes	±2%	6 16-bit	3	10-bit	2 10-bit	Yes	Yes	Yes	Yes	2.91	2.80	2.70
634	C8051F393-A-GM	QFN-24	50	16	1024	17	Yes	2	Yes	±2%	6 16-bit	3	10-bit	2 10-bit	Yes	Yes	Yes	Yes	2.46	2.37	2.28
634	C8051F369-GM	QFN-28	50	16	1280	25	Yes	Yes	Yes	±2%	4 16-bit	6	10-bit	10-bit	Yes	Yes	2	5.14	4.80	4.01	
634	C8051F412-GQ	LQFP-32	50	16																	