

SILICON LABS Microcontrollers



This page of product is compliant.

C8051F9XX ULTRA LOW POWER TOUCH SENSE DEVELOPMENT TOOLS

MOUSER STOCK NO.	Silicon Labs Part No.	Description	Price Each
634-F990SLIDEREK	F990SliderEK	Demonstrates the system level possibilities that can be achieved when combining Silicon Labs QuickSense™ technology with the C8051F99x ultra low power capacitive sensing MCU.	29.99
634-C8051F996DK	C8051F996DK	Development Kit for the C8051F990, F991, F996 and F997 family of ultra low power capacitive sensing MCUs and the C8051F980, F981, F982, F983, F985, F986, F987, F988 and F989 family of ultra low power MCUs.	99.00

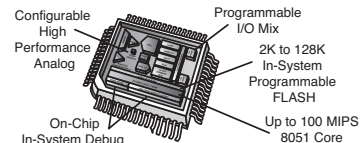
C8051FXXX PRECISION MIXED-SIGNAL MICROCONTROLLERS

Silicon Laboratories' mixed-signal microcontrollers integrate world-class analog, a high-speed pipelined 8051 CPU, ISP Flash memory and on-chip JTAG based debug in each device. Configurable high-performance analog, up to 100MIPS core and in-system programmability provide the user with complete design flexibility, improved time-to-market, superior system performance and greater end product differentiation.



RoHS Compliant

Typical Silicon Labs MCU Chip



For quantities greater than listed, call for quote.

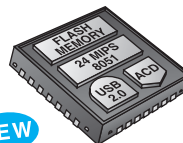
MOUSER STOCK NO.	Mfr.	Mfr. Part No.	Package	MIPS (Peak)	Flash Mem. (KB)	RAM (bytes)	Digital Port I/O Pins	Interfaces				Analog Peripherals							Price Each		
								UART	I2C	SPI	CAN	Internal Osc.	Timers	PCA Ch.	ADC	DAC	Temp Sensor	VREF	Comparators	1	25
634-C8051F000-GQ		TQFP-64	20	32	256	32	Yes	Yes	Yes	No	±20%	4 16-bit	5	12-bit	12-bit	Yes	Yes	2	13.43	12.55	10.48
634-C8051F001-GQ		TQFP-48	20	32	256	16	Yes	Yes	Yes	No	±20%	4 16-bit	5	12-bit	12-bit	Yes	Yes	2	13.22	12.36	10.31
634-C8051F002-GQ		LQFP-32	20	32	256	8	Yes	Yes	Yes	No	±20%	4 16-bit	5	12-bit	12-bit	Yes	Yes	1	13.01	12.16	10.15
634-C8051F012-GQ		LQFP-32	20	32	256	8	Yes	Yes	Yes	No	±20%	4 16-bit	5	10-bit	12-bit	Yes	Yes	1	12.01	11.22	9.37
634-C8051F019-GQ		TQFP-48	25	16	1280	16	Yes	Yes	Yes	No	±20%	4 16-bit	5	10-bit	No	Yes	Yes	2	10.59	9.90	8.26
634-C8051F005-GQ		TQFP-64	25	32	2304	32	Yes	Yes	Yes	No	±20%	4 16-bit	5	2 12-bit	No	Yes	Yes	2	14.40	13.45	11.23
634-C8051F006-GQ		TQFP-48	25	32	2304	16	Yes	Yes	Yes	No	±20%	4 16-bit	5	12-bit	12-bit	Yes	Yes	2	14.03	13.11	10.94
634-C8051F007-GQ		LQFP-32	25	32	2304	8	Yes	Yes	Yes	No	±20%	4 16-bit	5	12-bit	12-bit	Yes	Yes	1	13.70	12.80	10.68
634-C8051F015-GQ		TQFP-64	25	32	2304	32	Yes	Yes	Yes	No	±20%	4 16-bit	5	10-bit	12-bit	Yes	Yes	2	13.61	12.72	10.61
634-C8051F016-GQ		TQFP-48	25	32	2304	16	Yes	Yes	Yes	No	±20%	4 16-bit	5	10-bit	12-bit	Yes	Yes	2	13.38	12.50	10.44
634-C8051F046-GQ		TQFP-100	25	32	4352	64	2	Yes	Yes	2.0B	±2%	5 16-bit	6	10-bit	No	Yes	Yes	3	9.01	8.42	7.03
634-C8051F047-GQ		TQFP-64	25	32	4352	32	2	Yes	Yes	2.0B	±2%	5 16-bit	6	10-bit	No	Yes	Yes	3	8.43	7.88	6.57
634-C8051F020-GQ		TQFP-100	25	64	4352	64	2	Yes	Yes	No	±20%	5 16-bit	5	12/8-bit	12-bit	Yes	Yes	2	19.33	18.06	15.07
634-C8051F021-GQ		TQFP-64	25	64	4352	32	2	Yes	Yes	No	±20%	5 16-bit	5	12/8-bit	12-bit	Yes	Yes	2	18.64	17.42	14.54
634-C8051F022-GQ		TQFP-100	25	64	4352	64	2	Yes	Yes	No	±20%	5 16-bit	5	10/8-bit	12-bit	Yes	Yes	2	15.38	14.37	11.99
634-C8051F023-GQ		TQFP-64	25	64	4352	32	2	Yes	Yes	No	±20%	5 16-bit	5	10/8-bit	12-bit	Yes	Yes	2	14.28	13.34	11.13
634-C8051F040-GQ		TQFP-100	25	64	4352	64	2	Yes	Yes	2.0B	±2%	5 16-bit	6	12/8-bit	12-bit	Yes	Yes	3	13.77	12.86	10.74
634-C8051F041-GQ		TQFP-64	25	64	4352	32	2	Yes	Yes	2.0B	±2%	5 16-bit	6	12/8-bit	12-bit	Yes	Yes	3	13.24	12.37	10.32
634-C8051F042-GQ		TQFP-100	25	64	4352	64	2	Yes	Yes	2.0B	±2%	5 16-bit	6	10/8-bit	12-bit	Yes	Yes	3	11.82	11.04	9.21
634-C8051F043-GQ		TQFP-100	25	64	4352	32	2	Yes	Yes	2.0B	±2%	5 16-bit	6	10/8-bit	12-bit	Yes	Yes	3	11.33	10.59	8.84
634-C8051F044-GQ		TQFP-100	25	64	4352	64	2	Yes	Yes	2.0B	±2%	5 16-bit	6	10-bit	No	Yes	Yes	3	9.57	8.95	7.48
634-C8051F045-GQ		TQFP-64	25	64	4352	32	2	Yes	Yes	2.0B	±2%	5 16-bit	6	10-bit	No	Yes	Yes	3	9.08	8.49	7.08
634-C8051F060-GQ		TQFP-100	25	64	4352	59	2	Yes	Yes	2.0B	±2%	5 16-bit	6	2 16-bit	12-bit	Yes	Yes	3	18.94	17.70	14.77
634-C8051F061-GQ		TQFP-64	25	64	4352	24	2	Yes	Yes	2.0B	±2%	5 16-bit	6	2 16-bit	12-bit	Yes	Yes	3	17.22	16.09	13.43
634-C8051F062-GQ		TQFP-100	25	64	4352	59	2	Yes	Yes	2.0B	±2%	5 16-bit	6	2 16-bit	12-bit	Yes	Yes	3	16.10	15.00	12.56
634-C8051F063-GQ		TQFP-64	25	64	4352	24	2	Yes	Yes	2.0B	±2%	5 16-bit	6	2 16-bit	12-bit	Yes	Yes	3	15.66	14.63	12.21
634-C8051F064-GQ		TQFP-100	25	64	4352	59	2	Yes	Yes	No	±2%	5 16-bit	6	2 16-bit	No	No	Yes	3	13.63	12.73	10.62
634-C8051F065-GQ		TQFP-64	25	64	4352	24	2	Yes	Yes	No	±2%	5 16-bit	6	2 16-bit	No	No	Yes	3	13.22	12.36	10.31
634-C8051F350-GQ		LQFP-32	50	8	768	17	Yes	Yes	Yes	No	±2%	4 16-bit	3	24-bit	8-bit	Yes	Yes	1	7.40	6.91	5.77
634-C8051F351-GM		QFN-28	50	8	768	17	Yes	Yes	Yes	No	±2%	4 16-bit	3	24-bit	8-bit	Yes	Yes	1	6.08	5.68	4.74
634-C8051F352-GM		LQFP-32	50	8	768	17	Yes	Yes	Yes	No	±2%	4 16-bit	3	16-bit	8-bit	Yes	Yes	1	5.47	5.11	4.27
634-C8051F353-GM		QFN-28	50	8	768	17	Yes	Yes	Yes	No	±2%	4 16-bit	3	16-bit	8-bit	Yes	Yes	1	4.59	4.29	3.58
634-C8051F124-GQ		TQFP-100	50	128	8448	64	2	Yes	Yes	No	±2%	5 16-bit	6	12/8-bit	12-bit	Yes	Yes	2	20.77	19.40	16.20
634-C8051F125-GQ		TQFP-64	50	128	8448	32	2	Yes	Yes	No	±2%	5 16-bit	6	12/8-bit	12-bit	Yes	Yes	2	20.00	18.68	15.59
634-C8051F126-GQ		TQFP-100	50	128	8448	64	2	Yes	Yes	No	±2%	5 16-bit	6	10/8-bit	12-bit	Yes	Yes	2	19.03	17.78	14.85
634-C8051F127-GQ		TQFP-64	50	128	8448	64	2	Yes	Yes	No	±2%	5 16-bit	6	10/8-bit	12-bit	Yes	Yes	2	18.31	17.11	14.28
634-C8051F132-GQ		TQFP-100	100	64	8448	64	2	Yes	Yes	No	±2%	5 16-bit	6	10-bit	No	Yes	Yes	2	14.19	13.26	11.07
634-C8051F133-GQ		TQFP-64	100	64	8448	32	2	Yes	Yes	No	±2%	5 16-bit	6	10-bit	No	Yes	Yes	2	13.49	12.60	10.53
634-C8051F120-GQ		TQFP-100	100	128	8448	64	2	Yes	Yes	No	±2%	5 16-bit	6	12/8-bit	12-bit	Yes	Yes	2	23.68	22.13	18.47
634-C8051F121-GQ		TQFP-64	100	128	8448	32	2	Yes	Yes	No	±2%	5 16-bit	6	12/8-bit	12-bit	Yes	Yes	2	22.92	21.42	17.88
634-C8051F122-GQ		TQFP-100	100	128	8448	64	2	Yes	Yes	No	±2%	5 16-bit	6	10/8-bit	12-bit	Yes	Yes	2	21.94	20.50	17.10
634-C8051F123-GQ		TQFP-64	100	128	8448	32	2	Yes	Yes	No	±2%	5 16-bit	6	10/8-bit	12-bit	Yes	Yes	2	21.22	19.83	16.55
634-C8051F130-GQ		TQFP-100	100	128	8448	64	2	Yes	Yes	No	±2%	5 16-bit	6	10-bit	No	Yes	Yes	2	16.94	15.83	13.21
634-C8051F131-GQ		TQFP-64	100	128	8448	32	2	Yes	Yes	No	±2%	5 16-bit	6	10-bit	No	Yes	Yes	2	16.26	15.19	12.69

USB MICROCONTROLLERS

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 64 kB 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



RESISTORS



CRYSTAL



REGULATOR



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Mfr.	Mfr. Part No.	Package	MIPS (Peak)	Flash Mem. (KB)	RAM (bytes)	Digital Port I/O Pins	Interfaces				Analog Peripherals							Price Each			
								UART	I2C	SPI	SMBus	USB	Internal Osc.	Timers	PCA Ch.	ADC	DAC	Temp Sensors	VREF	Comparators	1	25
634-C8051F326-GM		QFN-28	25	16	1536	15	Yes	No	No	No	2.0	±1.5%	2 16-bit	No	No	No	No	No	No	3.66	3.42	2.85
634-C8051F327-GM		QFN-28	25	16	1536	15	Yes	No	No	No	2.0	±1.5%	2 16-bit	No	No	No	No	No	3.66	3.42	2.85	
634-C8051F320-GQ		LQFP-32	25	16	2304	25	Yes	Yes	Yes	No	2.0	±1.5%	4 16-bit	5	10-bit	No	Yes	Yes	2	6.40	5.98	5.00
634-C8051F321-GM		QFN-28	25	16	2304	21	Yes	Yes	Yes	No	2.0	±1.5%	4 16-bit	5	10-bit	No	Yes	Yes	2	5.45	5.09	4.26
634-C8051F345-GQ		TQFP-48	25	32	2304	40	2	Yes	Yes	No	2.0	±1.5%	4 16-bit	5	10-bit	No	Yes	Yes	2	7.77	7.26	6.05
634-C8051F347-GM		QFN-32	25	32	2304	25	Yes	Yes	Yes	No	2.0	±1.5%	4 16-bit	5	10-bit	No	Yes	Yes	2	7.14	6.67	5.57
634-C8051F347-GQ		LQFP-32	25	32	2304	25	Yes	Yes	Yes	No	2.0	±1.5%	4 16-bit	5	10-bit	No	Yes	Yes	2	7.14	6.67	5.57
634-C8051F348-GQ		TQFP-48	25	32	2304	40	2	Yes	Yes	No	2.0	±1.5%	4 16-bit	5	No	No	No	No	2	7.22	6.75	5.64
634-C8051F349-GM		QFN-32	25	32	2304	25	Yes	Yes	Yes	No	2.0	±1.5%	4 16-bit	5	No	No	Yes	Yes	2	6.64	6.21	5.18
634-C8051F349-GQ		LQFP-32	25	32	2304	25	Yes	Yes	Yes	No	2.0	±1.5%	4 16-bit	5	No	No	No	No	2	6.64	6.21	5.18
634-C8051F344-GQ		TQFP-48	25	64	4352	40	2	Yes	Yes	No	2.0	±1.5%	4 16-bit	5	10-bit	No	Yes	Yes	2	8.94	8.36	6.96
634-C8051F346-GM		QFN-32	25	64	4352	25	Yes	Yes	Yes	No	2.0	±1.5%	4 16-bit	5	10-bit	No	Yes	Yes	2			