



# SILICON LABS Development Kits and Microcontrollers

## MICROCONTROLLER DEVELOPMENT KITS

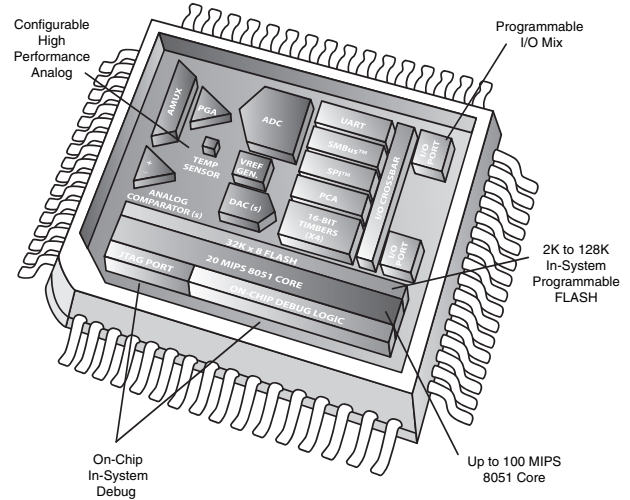
Silicon Labs development kits provide a comprehensive integrated development environment for unobtrusive real-time debug IN YOUR TARGET SYSTEM. Common debugging features such as breakpoints, read/write memory, run, halt, and single-stepping are all supported. There is no need to purchase expensive emulator-based HW. These kits are complete with all hardware, software, cables and power supply. The user needs only to provide a PC running Windows (95/98/NT/2000/XP) with a free COM port.



MOUSER STOCK NO.	Silicon Labs Part No.	Description	Price Each
634-C8051F005DK	C8051F005DK-U	Development Kit for C8051F000, F001, F002, F005, F006, F010, F011, F012, F015, F016, F017, F018 and F019 MCUs	99.00
634-C8051F020DK	C8051F020DK-U	Development Kit for C8051F020, F021, F022, and F023 MCUs	129.00
634-C8051F040DK	C8051F040DK-U	Development Kit for C8051F040, F041, F042, and F043 MCUs	459.00
634-C8051F060DK	C8051F060DK-U	Development Kit for C8051F060, F061, F062, and F063 MCUs	299.00
634-C8051F120DK	C8051F120DK-U	Development Kit for C8051F120, F121, F122, F123, F124, F125, F126, and F127 MCUs	149.00
634-C8051F206DK	C8051F206DK-U	Development Kit for C8051F206 MCUs	99.00
634-C8051F226DK	C8051F226DK-U	Development Kit for C8051F220, F221, F226, F230, F231, and F236 MCUs	99.00
634-C8051F300DK	C8051F300DK-U	Development Kit for C8051F300, F301, F302, F303, F304, and F305 MCUs	99.00
634-C8051F310DK	C8051F310DK-U	Development Kit for C8051F310 and F311 MCUs	99.00
634-C8051F320DK	C8051F320DK-U	Development Kit for C8051F320 and F321 MCUs	229.00
634-C8051F330DK	C8051F330DK-U	Development Kit for C8051F330 and F331 MCUs	99.00
634-C8051F350DK	C8051F350DK-U	Development Kit for C8051F350, F351, F352, and F353 MCUs	129.00

## HIGH-SPEED MIXED-SIGNAL FLASH MCUS

The C8051Fxxx is a family of in-system programmable, mixed signal System-on-Chip microcontroller products. They integrate world-class analog, a high-speed (up to 50MIPS) pipelined 8051 CPU, ISP Flash Memory, and on-chip JTAG based debug, in each device. C8051Fxxx products range from devices in the tiny Micro Leadframe Package, to larger scale devices in the 100-TQFP package.



### C8051F0XX Family

This family features up to a 25MIPS 8051 code-compatible CPU, in-system programming/debugging, plus precision analog data converters and a rich complement of digital peripherals. There is up to 32K bytes of in-system programmable FLASH memory and up to 2304 bytes of SRAM. Built-in debug support and IEEE 1149.1 Boundary Scan circuitry enables low-cost, in-system debugging via JTAG interface (see Development Kit). On-board hardware digital peripherals include UART, SMBus™/I2C™, SPI™ serial interfaces; four 16-Bit timers, and a five-channel, Programmable Counter Array (PCA) useful for PWM and general purpose timing applications. The multi-channel 100kps 10-Bit or 12-Bit SAR-type ADCs can be operated in either single-ended or differential input modes. All family members have two 12-Bit DACs, programmable voltage comparator(s), temperature sensor and voltage reference.

MOUSER STOCK NO.	Development Kit Part No.	MIPS (Peak)	Flash Mem. (KB)	RAM (bytes)	Digital Port I/O Pins	Serial Buses	Internal Osc	Analog Peripherals	Package	Price Each		
										1	25	100
634-C8051F000	634-C8051F005DK	20	32	256	32	UART, SMBus, SPI	+/-20%	12-bit ADC, 12-bit DACs	TQ64	22.17	15.95	12.66
634-C8051F001	634-C8051F005DK	20	32	256	16	UART, SMBus, SPI	+/-20%	12-bit ADC, 12-bit DACs	LQ32	21.81	15.69	12.45
634-C8051F002	634-C8051F005DK	20	32	256	8	UART, SMBus, SPI	+/-20%	12-bit ADC, 12-bit DACs	TQ64	21.48	15.46	12.27
634-C8051F005	634-C8051F005DK	25	32	2304	32	UART, SMBus, SPI	+/-20%	10-bit ADC, 12-bit DACs	TQ64	23.76	17.10	13.57
634-C8051F006	634-C8051F005DK	25	32	2304	16	UART, SMBus, SPI	+/-20%	10-bit ADC, 12-bit DACs	TQ48	23.13	16.64	13.21
634-C8051F007	634-C8051F005DK	25	32	2304	8	UART, SMBus, SPI	+/-20%	10-bit ADC, 12-bit DACs	LQ32	22.59	16.25	12.90
634-C8051F010	634-C8051F005DK	20	32	256	32	UART, SMBus, SPI	+/-20%	12-bit ADC, 12-bit DACs	TQ64	20.76	12.94	11.110
634-C8051F011	634-C8051F005DK	20	32	256	16	UART, SMBus, SPI	+/-20%	12-bit ADC, 12-bit DACs	TQ48	20.37	14.66	11.63
634-C8051F012	634-C8051F005DK	20	32	256	8	UART, SMBus, SPI	+/-20%	12-bit ADC, 12-bit DACs	LQ32	19.83	14.27	11.32
634-C8051F015	634-C8051F005DK	25	32	2304	32	UART, SMBus, SPI	+/-20%	10-bit ADC, 12-bit DACs	TQ64	22.44	16.15	12.81
634-C8051F016	634-C8051F005DK	25	32	2304	16	UART, SMBus, SPI	+/-20%	10-bit ADC, 12-bit DACs	TQ48	22.08	15.89	12.61
634-C8051F017	634-C8051F005DK	25	32	2304	8	UART, SMBus, SPI	+/-20%	10-bit ADC, 12-bit DACs	LQ32	21.84	15.71	12.47
634-C8051F018	634-C8051F005DK	25	16	1280	32	UART, SMBus, SPI	+/-20%	10-bit ADC	TQ64	18.12	13.04	10.35
634-C8051F019	634-C8051F005DK	25	16	1280	16	UART, SMBus, SPI	+/-20%	10-bit ADC	TQ48	17.46	12.56	9.97

### C8051FX2X Family

These full featured MCU's feature up to a 50MIPS 8051 code-compatible CPU as well as in-system programming/debugging. It is available in a 100-pin TQFP with 64 Digital I/O, has a fully parallel External Memory Interface (EMIF) for data storage, two UART's, an SMBus/I2C, and a SPI bus. There are two independent ADC's, one 12-bit 100kps and the other 8-bit 500kps. Each device also has two 12-bit DAC's, a voltage reference, and a temperature sensor. The Fx20 family members have up to 128K bytes of in-system programmable FLASH memory and up to 8448 bytes of SRAM. C8051Fx20 family is perfect for compute intensive, mixed-signal embedded applications.

634-C8051F020	634-C8051F020DK	25	64	4352	64	2 UARTs, SMBus, SPI	±20%	12-bit ADC, 12-bit DACs	TQ100	31.35	22.56	17.90
634-C8051F021	634-C8051F020DK	25	64	4352	32	2 UARTs, SMBus, SPI	±20%	12-bit ADC, 12-bit DACs	TQ64	30.23	21.75	17.26
634-C8051F022	634-C8051F020DK	25	64	4352	64	2 UARTs, SMBus, SPI	±20%	10-bit ADC, 12-bit DACs	TQ100	24.93	17.94	14.24
634-C8051F023	634-C8051F020DK	25	64	4352	32	2 UARTs, SMBus, SPI	±20%	10-bit ADC, 12-bit DACs	TQ64	23.16	16.67	13.23
634-C8051F120	634-C8051F120DK	100	128	8448	64	2 UARTs, SMBus, SPI	±2%	12-bit ADC, 12-bit DACs	TQ100	36.70	27.18	21.92
634-C8051F121	634-C8051F120DK	100	128	8448	32	2 UARTs, SMBus, SPI	±2%	12-bit ADC, 12-bit DACs	TQ64	35.54	26.33	21.23
634-C8051F122	634-C8051F120DK	100	128	8448	64	2 UARTs, SMBus, SPI	±2%	10-bit ADC, 12-bit DACs	TQ100	34.01	25.20	20.32
634-C8051F123	634-C8051F120DK	100	128	8448	32	2 UARTs, SMBus, SPI	±2%	10-bit ADC, 12-bit DACs	TQ64	32.88	24.36	19.64
634-C8051F124	634-C8051F124DK	50	128	8448	64	2 UARTs, SMBus, SPI	±2%	12-bit ADC, 12-bit DACs	TQ100	32.19	23.89	19.23
634-C8051F125	634-C8051F124DK	50	128	8448	32	2 UARTs, SMBus, SPI	±2%	12-bit ADC, 12-bit DACs	TQ64	30.99	22.95	18.51
634-C8051F126	634-C8051F124DK	50	128	8448	64	2 UARTs, SMBus, SPI	±2%	10-bit ADC, 12-bit DACs	TQ100	29.51	21.86	17.63
634-C8051F127	634-C8051F124DK	50	128	8448	64	2 UARTs, SMBus, SPI	±2%	10-bit ADC, 12-bit DACs	TQ64	28.38	21.02	16.95



MCU / MPU

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