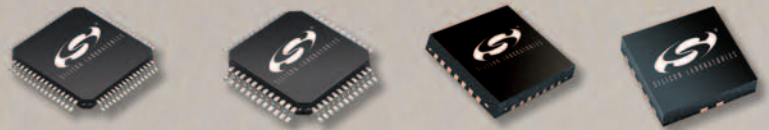
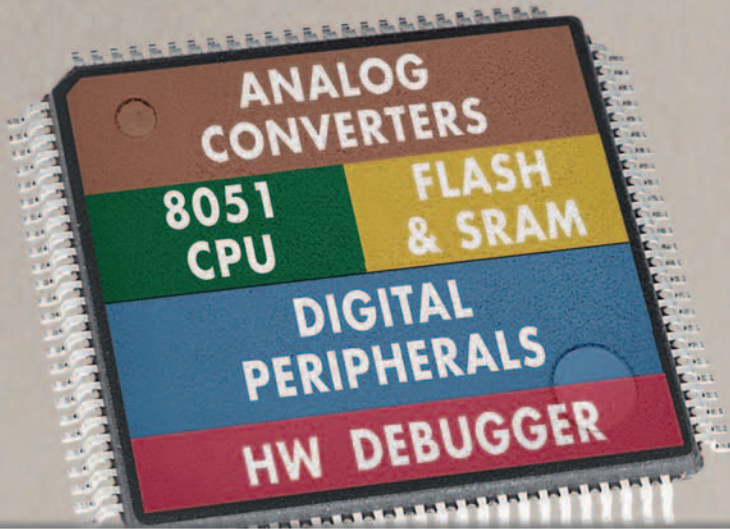


Silicon Laboratories

Mixed-Signal MCU Selector Guide



www.silabs.com

High-Performance 8051 Mixed-Signal Microcontrollers

- Highest Performance Integrated Analog
 - Up to 24-bit ADCs
 - Up to 1 Msps ADCs
- World's Fastest 8-bit MCU
 - Up to 100 MIPS
- Smallest MCU Footprint
 - 3 x 3 mm
- Comprehensive, Low Cost Development Tools



Precision Mixed-Signal MCUs

Part Number	MIPS (peak)	Flash (bytes)	RAM (bytes)	Ext Mem I/F	Digital Port I/O Pins	Serial Buses	Timers (16-bit)	PCA Chnls	Internal Osc	ADC1	ADC2	DAC	Temp Sensor	VREF	Comparators	Other	Package	Dev Kit
C8051F120	100	128 kB	8448	Y	64	2 UARTs, SMBus, SPI	5	6	±2%	12-bit, 8-ch., 100 ksp/s	8-bit, 8-ch., 500 ksp/s	12-bit, 2-ch.	Y	Y	2	16x16 MAC	TQFP100	C8051F120DK
C8051F121	100	128 kB	8448	Y	32	2 UARTs, SMBus, SPI	5	6	±2%	12-bit, 8-ch., 100 ksp/s	8-bit, 8-ch., 500 ksp/s	12-bit, 2-ch.	Y	Y	2	16x16 MAC	TQFP64	C8051F120DK
C8051F122	100	128 kB	8448	Y	64	2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 8-ch., 100 ksp/s	8-bit, 8-ch., 500 ksp/s	12-bit, 2-ch.	Y	Y	2	16x16 MAC	TQFP100	C8051F120DK
C8051F123	100	128 kB	8448	Y	32	2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 8-ch., 100 ksp/s	8-bit, 8-ch., 500 ksp/s	12-bit, 2-ch.	Y	Y	2	16x16 MAC	TQFP64	C8051F120DK
C8051F130	100	128 kB	8448	Y	64	2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 8-ch., 100 ksp/s	-	-	Y	Y	2	16x16 MAC	TQFP100	C8051F120DK
C8051F131	100	128 kB	8448	Y	32	2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 8-ch., 100 ksp/s	-	-	Y	Y	2	16x16 MAC	TQFP64	C8051F120DK
C8051F132	100	64 kB	8448	Y	64	2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 8-ch., 100 ksp/s	-	-	Y	Y	2	16x16 MAC	TQFP100	C8051F120DK
C8051F133	100	64 kB	8448	Y	32	2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 8-ch., 100 ksp/s	-	-	Y	Y	2	16x16 MAC	TQFP64	C8051F120DK
C8051F124	50	128 kB	8448	Y	64	2 UARTs, SMBus, SPI	5	6	±2%	12-bit, 8-ch., 100 ksp/s	8-bit, 8-ch., 500 ksp/s	12-bit, 2-ch.	Y	Y	2	-	TQFP100	C8051F120DK
C8051F125	50	128 kB	8448	Y	32	2 UARTs, SMBus, SPI	5	6	±2%	12-bit, 8-ch., 100 ksp/s	8-bit, 8-ch., 500 ksp/s	12-bit, 2-ch.	Y	Y	2	-	TQFP64	C8051F120DK
C8051F126	50	128 kB	8448	Y	64	2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 8-ch., 100 ksp/s	8-bit, 8-ch., 500 ksp/s	12-bit, 2-ch.	Y	Y	2	-	TQFP100	C8051F120DK
C8051F127	50	128 kB	8448	Y	32	2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 8-ch., 100 ksp/s	8-bit, 8-ch., 500 ksp/s	12-bit, 2-ch.	Y	Y	2	-	TQFP64	C8051F120DK
C8051F020	25	64 kB	4352	Y	64	2 UARTs, SMBus, SPI	5	5	±20%	12-bit, 8-ch., 100 ksp/s	8-bit, 8-ch., 500 ksp/s	12-bit, 2-ch.	Y	Y	2	-	TQFP100	C8051F020DK
C8051F021	25	64 kB	4352	Y	32	2 UARTs, SMBus, SPI	5	5	±20%	12-bit, 8-ch., 100 ksp/s	8-bit, 8-ch., 500 ksp/s	12-bit, 2-ch.	Y	Y	2	-	TQFP64	C8051F020DK
C8051F022	25	64 kB	4352	Y	64	2 UARTs, SMBus, SPI	5	5	±20%	10-bit, 8-ch., 100 ksp/s	8-bit, 8-ch., 500 ksp/s	12-bit, 2-ch.	Y	Y	2	-	TQFP100	C8051F020DK
C8051F023	25	64 kB	4352	Y	32	2 UARTs, SMBus, SPI	5	5	±20%	10-bit, 8-ch., 100 ksp/s	8-bit, 8-ch., 500 ksp/s	12-bit, 2-ch.	Y	Y	2	-	TQFP64	C8051F020DK
C8051F064	25	64 kB	4352	Y	59	2 UARTs, SMBus, SPI	5	6	±2%	16-bit, 1-ch., 1 Msps	16-bit, 1-ch., 1 Msps	-	-	Y	3	DMA	TQFP100	C8051F060DK
C8051F065	25	64 kB	4352	-	24	2 UARTs, SMBus, SPI	5	6	±2%	16-bit, 1-ch., 1 Msps	16-bit, 1-ch., 1 Msps	-	-	Y	3	DMA	TQFP64	C8051F060DK
C8051F066	25	32 kB	4352	Y	59	2 UARTs, SMBus, SPI	5	6	±2%	16-bit, 1-ch., 1 Msps	16-bit, 1-ch., 1 Msps	-	-	Y	3	DMA	TQFP100	C8051F060DK
C8051F067	25	32 kB	4352	-	24	2 UARTs, SMBus, SPI	5	6	±2%	16-bit, 1-ch., 1 Msps	16-bit, 1-ch., 1 Msps	-	-	Y	3	DMA	TQFP64	C8051F060DK
C8051F000	20	32 kB	256	-	32	UART, SMBus, SPI	4	5	±20%	12-bit, 8-ch., 100 ksp/s	-	12-bit, 2-ch.	Y	Y	2	-	TQFP64	C8051F005DK
C8051F001	20	32 kB	256	-	16	UART, SMBus, SPI	4	5	±20%	12-bit, 8-ch., 100 ksp/s	-	12-bit, 2-ch.	Y	Y	2	-	TQFP48	C8051F005DK
C8051F002	20	32 kB	256	-	8	UART, SMBus, SPI	4	5	±20%	12-bit, 4-ch., 100 ksp/s	-	12-bit, 2-ch.	Y	Y	1	-	LQFP32	C8051F005DK
C8051F005	25	32 kB	2304	-	32	UART, SMBus, SPI	4	5	±20%	12-bit, 8-ch., 100 ksp/s	-	12-bit, 2-ch.	Y	Y	2	-	TQFP64	C8051F005DK
C8051F006	25	32 kB	2304	-	16	UART, SMBus, SPI	4	5	±20%	12-bit, 8-ch., 100 ksp/s	-	12-bit, 2-ch.	Y	Y	2	-	TQFP48	C8051F005DK
C8051F007	25	32 kB	2304	-	8	UART, SMBus, SPI	4	5	±20%	12-bit, 4-ch., 100 ksp/s	-	12-bit, 2-ch.	Y	Y	1	-	LQFP32	C8051F005DK
C8051F010	20	32 kB	256	-	32	UART, SMBus, SPI	4	5	±20%	10-bit, 8-ch., 100 ksp/s	-	12-bit, 2-ch.	Y	Y	2	-	TQFP64	C8051F005DK
C8051F011	20	32 kB	256	-	16	UART, SMBus, SPI	4	5	±20%	10-bit, 8-ch., 100 ksp/s	-	12-bit, 2-ch.	Y	Y	2	-	TQFP48	C8051F005DK
C8051F012	20	32 kB	256	-	8	UART, SMBus, SPI	4	5	±20%	10-bit, 4-ch., 100 ksp/s	-	12-bit, 2-ch.	Y	Y	1	-	LQFP32	C8051F005DK
C8051F015	25	32 kB	2304	-	32	UART, SMBus, SPI	4	5	±20%	10-bit, 8-ch., 100 ksp/s	-	12-bit, 2-ch.	Y	Y	2	-	TQFP64	C8051F005DK
C8051F016	25	32 kB	2304	-	16	UART, SMBus, SPI	4	5	±20%	10-bit, 8-ch., 100 ksp/s	-	12-bit, 2-ch.	Y	Y	2	-	TQFP48	C8051F005DK
C8051F017	25	32 kB	2304	-	8	UART, SMBus, SPI	4	5	±20%	10-bit, 4-ch., 100 ksp/s	-	12-bit, 2-ch.	Y	Y	1	-	LQFP32	C8051F005DK
C8051F018	25	16 kB	1280	-	32	UART, SMBus, SPI	4	5	±20%	10-bit, 8-ch., 100 ksp/s	-	-	Y	Y	2	-	TQFP64	C8051F005DK
C8051F019	25	16 kB	1280	-	16	UART, SMBus, SPI	4	5	±20%	10-bit, 8-ch., 100 ksp/s	-	-	Y	Y	2	-	TQFP48	C8051F005DK
C8051F350	50	8 kB	768	-	17	UART, SMBus, SPI	4	3	±2%	24-bit, 8-ch., 1 ksp/s	-	8-bit, 2-ch.	Y	Y	1	-	LQFP32	C8051F350DK
C8051F351	50	8 kB	768	-	17	UART, SMBus, SPI	4	3	±2%	24-bit, 8-ch., 1 ksp/s	-	8-bit, 2-ch.	Y	Y	1	-	QFN28	C8051F350DK
C8051F352	50	8 kB	768	-	17	UART, SMBus, SPI	4	3	±2%	16-bit, 8-ch., 1 ksp/s	-	8-bit, 2-ch.	Y	Y	1	-	LQFP32	C8051F350DK
C8051F353	50	8 kB	768	-	17	UART, SMBus, SPI	4	3	±2%	16-bit, 8-ch., 1 ksp/s	-	8-bit, 2-ch.	Y	Y	1	-	QFN28	C8051F350DK

C8051F064 Low Cost Evaluation Kit

The C8051F064 Evaluation Kit includes the following:

- Evaluation software for the C8051F064's dual 16-bit 1 Msps ADCs
- C8051F064 based evaluation board, USB cable, software CD and full documentation
- Silicon Laboratories standard IDE development tools with up to 2 kB C-compiler

Buy online at www.silabs.com/DevKits

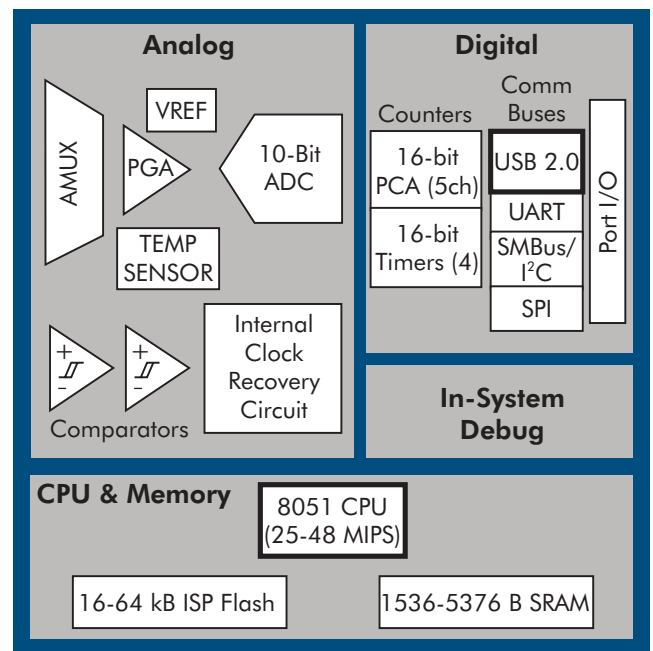
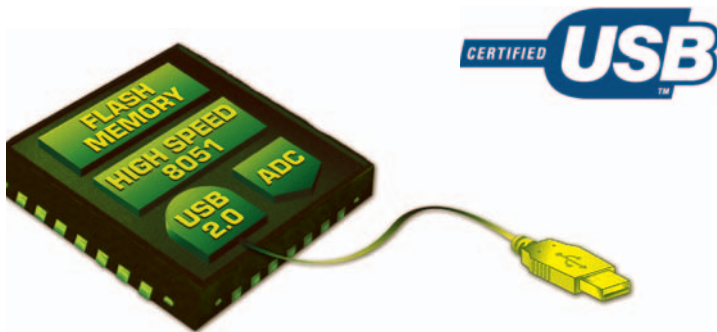


USB Mixed-Signal MCUs

Part Number	MIPS (peak)	Flash Memory (bytes)	RAM (bytes)	Ext Mem I/F	Digital Port I/O Pins	Serial Buses	Timers (16-bit)	PCA Chnls	Internal Osc	ADC1	Temp Sensor	VREF	Comparators	Other	Package	Dev Kit
C8051F340	48	64 kB	5376	Y	40	USB 2.0, 2 x UART, SMBus, SPI	4	5	±1.5%	10-bit, 17-ch., 200 ksp/s	Y	Y	2	-	TQFP48	C8051F340DK
C8051F342	48	64 kB	5376	-	25	USB 2.0, UART, SMBus, SPI	4	5	±1.5%	10-bit, 17-ch., 200 ksp/s	Y	Y	2	-	LQFP32	C8051F340DK
C8051F341	48	32 kB	3328	Y	40	USB 2.0, 2 x UART, SMBus, SPI	4	5	±1.5%	10-bit, 17-ch., 200 ksp/s	Y	Y	2	-	TQFP48	C8051F340DK
C8051F343	48	32 kB	3328	-	25	USB 2.0, UART, SMBus, SPI	4	5	±1.5%	10-bit, 17-ch., 200 ksp/s	Y	Y	2	-	LQFP32	C8051F340DK
C8051F344	25	64 kB	5376	Y	40	USB 2.0, 2 x UART, SMBus, SPI	4	5	±1.5%	10-bit, 17-ch., 200 ksp/s	Y	Y	2	-	TQFP48	C8051F340DK
C8051F346	25	64 kB	5376	-	25	USB 2.0, UART, SMBus, SPI	4	5	±1.5%	10-bit, 17-ch., 200 ksp/s	Y	Y	2	-	LQFP32	C8051F340DK
C8051F345	25	32 kB	3328	Y	40	USB 2.0, 2 x UART, SMBus, SPI	4	5	±1.5%	10-bit, 17-ch., 200 ksp/s	Y	Y	2	-	TQFP48	C8051F340DK
C8051F347	25	32 kB	3328	-	25	USB 2.0, UART, SMBus, SPI	4	5	±1.5%	10-bit, 17-ch., 200 ksp/s	Y	Y	2	-	LQFP32	C8051F340DK
C8051F320	25	16 kB	2304	-	25	USB 2.0, UART, SMBus, SPI	4	5	±1.5%	10-bit, 17-ch., 200 ksp/s	Y	Y	2	-	LQFP32	C8051F320DK
C8051F321	25	16 kB	2304	-	21	USB 2.0, UART, SMBus, SPI	4	5	±1.5%	10-bit, 13-ch., 200 ksp/s	Y	Y	2	-	QFN28	C8051F320DK
C8051F326	25	16 kB	1536	-	15	USB 2.0, UART,	2	-	±1.5%	-	-	-	-	Separate I/O Supply Pin	QFN28	C8051F326DK
C8051F327	25	16 kB	1536	-	15	USB 2.0, UART,	2	-	±1.5%	-	-	-	-	Fixed I/O Supply	QFN28	C8051F326DK

Embedded USB Made Easy

- Full range of single-chip USB MCUs
- Device and host drivers
- Extensive hardware and software reference designs



USB to UART Bridge

Part Number	MIPS (peak)	EEPROM (bytes)	RAM (bytes)	Ext Mem I/F	Digital Port I/O Pins	Serial Buses	Timers (16-bit)	PCA Chnls	Internal Osc	ADC1	ADC2	DAC	Temp Sensor	VREF	Comparators	Other	Package	Eval Kit
CP2103	-	1024	1 kB	-	4	UART to USB Bridge	-	-	Y	-	-	-	-	-	-	Volt Reg, RS485, Split V _{DDIO}	QFN28	CP2103EK
CP2102	-	1024	1 kB	-	-	UART to USB Bridge	-	-	Y	-	-	-	-	-	-	Volt Reg, host I/O	QFN28	CP2102EK
CP2101	-	512	1 kB	-	-	UART to USB Bridge	-	-	Y	-	-	-	-	-	-	Volt Reg	QFN28	CP2101EK

Single-Chip USB to UART Solution



Easily update legacy RS-232 and RS-485 designs to USB. The CP210x single-chip solution provides a full-speed USB-to-UART bridge in a 5x5 mm package with no crystal, voltage regulator, EEPROM, or other external components required. System development is simplified by the Evaluation Kit, which includes a complete evaluation board and royalty-free device drivers.

Buy online at www.silabs.com/USB

802.15.4/ZigBee™ Development Kits

Silicon Labs offers 802.15.4 and ZigBee development kits that allow customers to focus on application development rather than hardware selection. These comprehensive kits include all the hardware and software needed to immediately begin developing 802.15.4 or ZigBee network solutions.

- Demonstration GUI
 - Graphical representation of 13 ZigBee topologies
 - Three demo applications to monitor data from any of the networked devices: temperature, received signal strength indicator (RSSI) and thumbwheel (analog)
- 802.15.4 MAC-level application development
- ZigBee application development
- Silicon Labs Integrated Development Environment (IDE)



ZigBee-2.4-DK

Buy online at www.silabs.com/ZigBee

Ethernet

Part Number	Flash	Parallel Host Interface	Parallel Host Interface Speed	Auto-Negotiation	Pre-Programmed MAC address	RAM size	LEDs	Temp Range	Transceiver	Package	Eval Kit	Dev Kit
CP2200	8 kB	8-bit non-multiplexed EMIF	30 Mbps	Y	Y	2 kB TX and 4 kB RX buffer	Separate link and activity	-40 to +85	Included	TQFP48	CP2201EK	ETHERNETDK
CP2201	8 kB	8-bit multiplexed EMIF	25 Mbps	Y	Y	2 kB TX and 4 kB RX buffer	Combined link and activity	-40 to +85	Included	QFN28	CP2201EK	ETHERNETDK



CP2201EK

CP2201 Evaluation Kit

Demonstrates embedded Ethernet connectivity.

- Remote temperature and light sensing from web browser
- Sensor data transmission via email
- Automatic network configuration using net finder utility

Buy online at www.silabs.com/Ethernet

CAN Mixed-Signal MCUs

Part Number	MIPS (peak)	Flash (bytes)	RAM (bytes)	Ext Mem I/F	Digital Port I/O Pins	Serial Buses	Timers (16-bit)	PCA Chnls	Internal Osc	ADC1	ADC2	DAC	Temp Sensor	VREF	Comparators	Other	Package	Dev Kit
C8051F040	25	64 kB	4352	Y	64	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	12-bit, 13-ch., 100 ksp/s	8-bit, 8-ch., 500 ksp/s	12-bit, 2-ch.	Y	Y	3	±60 V PGA	TQFP100	C8051F040DK
C8051F041	25	64 kB	4352	Y	32	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	12-bit, 13-ch., 100 ksp/s	8-bit, 8-ch., 500 ksp/s	12-bit, 2-ch.	Y	Y	3	±60 V PGA	TQFP64	C8051F040DK
C8051F042	25	64 kB	4352	Y	64	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 13-ch., 100 ksp/s	8-bit, 8-ch., 500 ksp/s	12-bit, 2-ch.	Y	Y	3	±60 V PGA	TQFP100	C8051F040DK
C8051F043	25	64 kB	4352	Y	32	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 13-ch., 100 ksp/s	8-bit, 8-ch., 500 ksp/s	12-bit, 2-ch.	Y	Y	3	±60 V PGA	TQFP64	C8051F040DK
C8051F044	25	64 kB	4352	Y	64	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 13-ch., 100 ksp/s	-	-	Y	Y	3	±60 V PGA	TQFP100	C8051F040DK
C8051F045	25	64 kB	4352	Y	32	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 13-ch., 100 ksp/s	-	-	Y	Y	3	±60 V PGA	TQFP64	C8051F040DK
C8051F060	25	64 kB	4352	Y	59	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	16-bit, 1-ch., 1 Msps	16-bit, 1-ch., 1 Msps	12-bit, 2-ch.	Y	Y	3	10-bit, 8-ch., 200 ksp/s	TQFP100	C8051F060DK
C8051F061	25	64 kB	4352	-	24	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	16-bit, 1-ch., 1 Msps	16-bit, 1-ch., 1 Msps	12-bit, 2-ch.	Y	Y	3	10-bit, 8-ch., 200 ksp/s	TQFP64	C8051F060DK
C8051F062	25	64 kB	4352	Y	59	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	16-bit, 1-ch., 1 Msps	16-bit, 1-ch., 1 Msps	12-bit, 2-ch.	Y	Y	3	10-bit, 8-ch., 200 ksp/s	TQFP100	C8051F060DK
C8051F063	25	64 kB	4352	-	24	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	16-bit, 1-ch., 1 Msps	16-bit, 1-ch., 1 Msps	12-bit, 2-ch.	Y	Y	3	10-bit, 8-ch., 200 ksp/s	TQFP64	C8051F060DK
C8051F046	25	32 kB	4352	Y	64	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 13-ch., 100 ksp/s	-	-	Y	Y	3	±60 V PGA	TQFP100	C8051F040DK
C8051F047	25	32 kB	4352	Y	32	CAN2.0B, 2 UARTs, SMBus, SPI	5	6	±2%	10-bit, 13-ch., 100 ksp/s	-	-	Y	Y	3	±60 V PGA	TQFP64	C8051F040DK

Small Form Factor Mixed-Signal MCUs

Part Number	MIPS (peak)	Flash (bytes)	RAM (bytes)	Ext Mem I/F	Digital Port I/O Pins	Serial Buses	Timers (16-bit)	PCA Chnls	Internal Osc	ADC1	ADC2	DAC	Temp Sensor	VREF	Comparators	Other	Package	Dev Kit
C8051F410	50	32 kB	2304	-	24	UART, SMBus, SPI	4	6	±2%	12-bit, 24-ch., 200 ksp/s	-	12-bit, 2-ch.	Y	Y	2	VREG, smartClock	LQFP32	C8051F410DK
C8051F411	50	32 kB	2304	-	20	UART, SMBus, SPI	4	6	±2%	12-bit, 20-ch., 200 ksp/s	-	12-bit, 2-ch.	Y	Y	2	VREG, smartClock	QFN28	C8051F410DK
C8051F412	50	16 kB	1280	-	24	UART, SMBus, SPI	4	6	±2%	12-bit, 24-ch., 200 ksp/s	-	12-bit, 2-ch.	Y	Y	2	VREG, smartClock	LQFP32	C8051F410DK
C8051F413	50	16 kB	1280	-	20	UART, SMBus, SPI	4	6	±2%	12-bit, 20-ch., 200 ksp/s	-	12-bit, 2-ch.	Y	Y	2	VREG, smartClock	QFN28	C8051F410DK
C8051F310	25	16 kB	1280	-	29	UART, SMBus, SPI	4	5	±2%	10-bit, 21-ch., 200 ksp/s	-	-	Y	-	2	-	LQFP32	C8051F310DK
C8051F311	25	16 kB	1280	-	25	UART, SMBus, SPI	4	5	±2%	10-bit, 17-ch., 200 ksp/s	-	-	Y	-	2	-	QFN28	C8051F310DK
C8051F316	25	16 kB	1280	-	32	UART, SMBus, SPI	4	5	±2%	10-bit, 16-ch., 200 ksp/s	-	-	Y	-	2	-	QFN24	C8051F310DK
C8051F317	25	16 kB	1280	-	21	UART, SMBus, SPI	4	5	±2%	-	-	-	Y	-	2	-	QFN24	C8051F310DK
C8051F312	25	8 kB	1280	-	29	UART, SMBus, SPI	4	5	±2%	10-bit, 21-ch., 200 ksp/s	-	-	Y	-	2	-	LQFP32	C8051F310DK
C8051F313	25	8 kB	1280	-	25	UART, SMBus, SPI	4	5	±2%	10-bit, 17-ch., 200 ksp/s	-	-	Y	-	2	-	QFN28	C8051F310DK
C8051F314	25	8 kB	1280	-	29	UART, SMBus, SPI	4	5	±2%	-	-	-	Y	-	2	-	LQFP32	C8051F310DK
C8051F315	25	8 kB	1280	-	25	UART, SMBus, SPI	4	5	±2%	-	-	-	Y	-	2	-	QFN28	C8051F310DK
C8051F330	25	8 kB	768	-	17	UART, SMBus, SPI	4	3	±2%	10-bit, 16-ch., 200 ksp/s	-	10-bit, 1-ch.	Y	Y	1	-	QFN20	C8051F330DK
C8051F330D	25	8 kB	768	-	17	UART, SMBus, SPI	4	3	±2%	10-bit, 16-ch., 200 ksp/s	-	10-bit, 1-ch.	Y	Y	1	-	PDIP20	C8051F330DK
C8051F331	25	8 kB	768	-	17	UART, SMBus, SPI	4	3	±2%	-	-	-	-	-	1	-	QFN20	C8051F330DK
C8051F221	25	8 kB	256	-	22	UART, SPI	3	-	±20%	8-bit, 32-ch., 100 ksp/s	-	-	-	-	2	-	LQFP32	C8051F226DK
C8051F231	25	8 kB	256	-	22	UART, SPI	3	-	±20%	-	-	-	-	-	2	-	LQFP32	C8051F226DK
C8051F300	25	8 kB	256	-	8	UART, SMBus	3	3	±2%	8-bit, 8-ch., 500 ksp/s	-	-	Y	-	1	-	QFN11	C8051F300DK
C8051F301	25	8 kB	256	-	8	UART, SMBus	3	3	±2%	-	-	-	-	-	1	-	QFN11	C8051F300DK
C8051F302	25	8 kB	256	-	8	UART, SMBus	3	3	±20%	8-bit, 8-ch., 500 ksp/s	-	-	Y	-	1	-	QFN11	C8051F300DK
C8051F303	25	8 kB	256	-	8	UART, SMBus	3	3	±20%	-	-	-	-	-	1	-	QFN11	C8051F300DK
C8051F332	25	4 kB	768	-	17	UART, SMBus, SPI	4	3	±2%	10-bit, 16-ch., 200 ksp/s	-	-	Y	Y	1	-	QFN20	C8051F330DK
C8051F333	25	4 kB	768	-	17	UART, SMBus, SPI	4	3	±2%	-	-	-	-	-	1	-	QFN20	C8051F330DK
C8051F304	25	4 kB	256	-	8	UART, SMBus	3	3	±20%	-	-	-	-	-	1	-	QFN11	C8051F300DK
C8051F334	25	2 kB	768	-	17	UART, SMBus, SPI	4	3	±2%	10-bit, 16-ch., 200 ksp/s	-	-	Y	Y	1	-	QFN20	C8051F330DK
C8051F335	25	2 kB	768	-	17	UART, SMBus, SPI	4	3	±2%	-	-	-	-	-	1	-	QFN20	C8051F330DK
C8051F305	25	2 kB	256	-	8	UART, SMBus	3	3	±20%	-	-	-	Y	-	1	-	QFN11	C8051F300DK

ToolStick: "Plug 'n Debug"

Fully Contained Evaluation System in a USB Stick

The ToolStick evaluation platform is a fully contained evaluation system in a USB stick that demonstrates Silicon Laboratories' easy-to-use development tools. The ToolStick is based on Silicon Laboratories' industry leading C8051F300 small form factor MCU which interfaces with the PC via the integrated Silicon Laboratories USB debug adapter that uses the C8051F321 USB MCU. Connected via the USB port on the PC, the ToolStick acts as a human interface device so drivers are unnecessary to communicate with the MCU on board.



Buy online at www.silabs.com/ToolStick

Microcontroller Development Tools

Development Kits

Complete development/prototyping system includes the following:

- Prototyping/demonstration board
- USB adapter for in-system programming and debugging
- Silicon Laboratories IDE
- MCU configuration wizard

Buy online at www.silabs.com/DevKits

IDE

4 kB C compiler included

Source code editor

Project manager

Keil 8051 macro assembler and linker

Flash programmer

Supports full-speed, non-intrusive, in-circuit debug logic

Source-level debug

Variable watch window

Real-time breakpoints

Conditional memory watchpoints

Memory and register inspect/modify

Supports third-party development tools

Single-step and animated execution modes



Third Party Tool Support

A broad range of third-party compilers and development tools are available, including a free Small Device C Compiler (SDCC) supported by App Note 198, "Integrating SDCC 8051 Tools into the Silicon Labs IDE." Flash programming and source-level debug of OMF-51 object files is fully supported.

Design Support at www.silabs.com/MCU

Silicon Laboratories' Reference Designs, Application Notes and source code examples address a wide range of applications and markets. Visit our website at www.silabs.com/MCU for complete access to all of our design resources.

Product Support at www.silabs.com/support

💡 MCU Knowledge Base: answers to common technical questions about the MCU product line and product use.

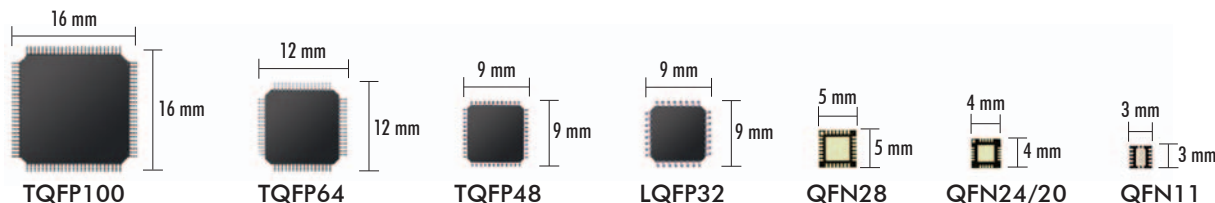
MCU User's Forum: where C8051F MCU users can share experiences and technical questions with other users.

Microcontroller support email:

Americas: mcuapps@silabs.com

Europe and Asia: eumcuapps@silabs.com

Development Kit or IDE support email: mcutools@silabs.com



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