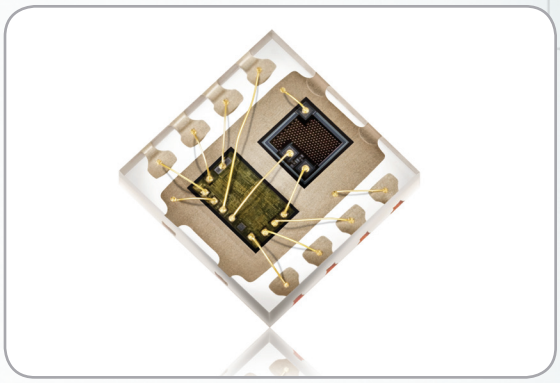
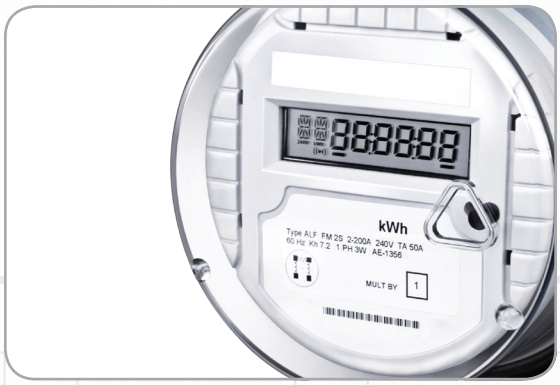
PRODUCT SELECTOR GUIDE





SPRING 2011

High-Performance, Analog-Intensive, Mixed-Signal ICs

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Product Selector Tables

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Audio/Video

FIND MORE INFORMATION AT www.silabs.com/broadcast

AM/FM Solutions

Highly-integrated, single-chip 100% CMOS solutions only require up to two external components
Best-in-class performance; easy-to-implement, layout-compatible multi-band solutions

PART NUMBER	DESCRIPTION	RDS SUPPORT	DIG I/O
Si4702/03	FM radio receivers with RDS	Si4703	
Si4704/05[1]	FM radio receiver with RDS, no external antenna required	Si4705	Si4705
Si4706	Enhanced FM RDS/TMC radio receiver with RDS, no external antenna required	Si4706	Si4706
Si4707	Weather band radio receiver with SAME decoder		
Si4708/09	World's smallest FM tuner with RDS	Si4709	
Si4710/11	FM radio transmitter with RDS and digital audio compression	Si4711	Si4711
Si4712/13	FM radio transmitter with RDS, RPS[3] and digital audio compression	Si4713	Si4713
Si4720/21	FM radio transceivers with RDS, RPS and digital audio compression	Si4721	Si4721
Si4730/31	AM/FM radio receivers with RDS	Si4731	Si4731
Si4734/35[1]	AM/FM/shortwave/longwave radio receivers with RDS	Si4735	Si4735
Si4736/37	AM/FM/weather band radio receivers with RDS	Si4737	Si4737[2]
Si4738/39	FM/weather band radio receivers with RDS	Si4739	Si4739[2]
Si4740/1/2/3/4/5	Multi-band receivers with RDS, automotive qualified AEC-Q100	Si4741/43/45	Si4740/1/2/3/4/5
Si4749	Enhanced FM RDS/TMC radio receiver, automotive qualitifed AEC-Q100	Si4749	
Si4750/1/2/3/4/5/6/7	Multi-band primary audio receivers, automotive qualitifed AEC-Q100	Si4751/53/55/57	
Si4831/35	Mechanical tuning AM/FM/SW radio receiver		

[1]Extended FM tuning range 64-108 MHz; [2]AM/FM only; [3]Receive Power Scan

Class D Audio Drivers

High-side/low-side isolated drivers for high power audio applications

PART NUMBER	INPUT TYPE	ISOLATION RATING	OUTPUT	DRIVE STRENGTH	UVLO VOLTAGE	PACKAGE
Si8241BB-B-1S1	PWM	2.5 kV rms	High-Side/Low-Side	0.5 A	8 V	NB SOIC16
Si8241CB-B-1S1	PWM		High-Side/Low-Side		10 V	NB SOIC16
Si8244BB-C-1S1	PWM		High-Side/Low-Side	4 A	8 V	NB SOIC16
Si8244CB-C-1S1	PWM		High-Side/Low-Side		10 V	NB SOIC16

*NB = Narrow-Body

Hybrid TV Tuners

Eliminates hundreds of external components while exceeding discrete tuner performance

PART NUMBER	DESCRIPTION	PACKAGE
Si2170	Worldwide hybrid TV tuner with ATV demod for NTSC, PAL/SECAM, ATSC/QAM, DVB-T/C, ISDB-T/C	QFN48
Si2171	Hybrid TV tuner with ATV demod for PAL/SECAM, DVB-T/C	QFN48
Si2172	Hybrid TV tuner with ATV demod for NTSC, ATSC/QAM, ISDB-T/C	QFN48

Digital TV Demodulators

Most compact, smallest BOM, lowest power and high performance combo demodulators for DVB-T, DVB-T/C, DVB-S and DVB-S2

PART NUMBER	DESCRIPTION	PACKAGE
Si2161	DVB-T demodulator	QFN36
Si2165	Multi-standard DVB-T and DVB-C demodulator	QFN36
Si2167	Multimedia DVB-T/C/S/S2 digital TV demodulator	QFN48

Isolation and Power

REQUEST SAMPLES AND DOWNLOAD DOCUMENTATION AT www.silabs.com/isolation

Multi-Channel Unidirectional Digital Isolators (1.0 kVrms)

PART NUMBER	FORWARD CHANNELS	REVERSE CHANNELS	MAXIMUM DATA RATE (MBPS)	ENABLE OUTPUT	ISOLATION RATING	VOLTAGE RANGE (V)	TEMPERATURE RANGE	PACKAGE
								NB SOIC16
Si8440AA-D-IS1	4	0	1	•	1.0 kVrms	2.7 - 5.5	-40 to +125 °C	•
Si8440BA-D-IS1	4	0	150	•				•
Si8441AA-D-IS1	3	1	1	•				•
Si8441BA-D-IS1	3	1	150	•				•
Si8442AA-D-IS1	2	2	1	•				•
Si8442BA-D-IS1	2	2	150	•				•
Si8445BA-D-IS1	4	0	150					•
Si8450AA-B-IS1	5	0	1	•	1.0 kVrms	2.7 - 5.5	-40 to +125 °C	•
Si8450BA-B-IS1	5	0	150	•				•
Si8451AA-B-IS1	4	1	1	•				•
Si8451BA-B-IS1	4	1	150	•				•
Si8452AA-B-IS1	3	2	1	•				•
Si8452BA-B-IS1	3	2	150	•				•
Si8455BA-B-IS1	5	0	150					•
Si8460AA-B-IS1	6	0	1	•	1.0 kVrms	2.7 - 5.5	-40 to +125 °C	•
Si8460BA-B-IS1	6	0	150	•				•
Si8461AA-B-IS1	5	1	1	•				•
Si8461BA-B-IS1	5	1	150	•				•
Si8462AA-B-IS1	4	2	1	•				•
Si8462BA-B-IS1	4	2	150	•				•
Si8463AA-B-IS1	3	3	1	•				•
Si8463BA-B-IS1	3	3	150	•				•

*NB = Narrow-Body, WB = Wide Body

Multi-Channel Unidirectional Digital Isolators (2.5 kVrms)

PART NUMBER	FORWARD CHANNELS	REVERSE CHANNELS	MAXIMUM DATA RATE (MBPS)	ENABLE OUTPUT	ISOLATION RATING	VOLTAGE RANGE (V)	TEMPERATURE RANGE	PACKAGE(S)		
								NB SOIC8	WB SOIC16	NB SOIC16
Si8410AB-D-IS	1	0	1		2.5 kVrms	2.7 - 5.5	-40 to +125 °C	•		
Si8410BB-D-IS	1	0	150					•		
Si8420AB-D-IS	2	0	1		2.5 kVrms	2.7 - 5.5	-40 to +125 °C	•		
Si8420BB-D-IS	2	0	150					•		
Si8421AB-D-IS	1	1	1					•		
Si8421BB-D-IS	1	1	150					•		
Si8422AB-B-IS	1	1	1		2.5 kVrms	2.7 - 5.5	-40 to +125 °C	•		
Si8422BB-B-IS	1	1	150					•		
Si8423AB-B-IS	2	0	1					•		
Si8423BB-B-IS	2	0	150					•		
Si8430AB-D-IS(1)	3	0	1	•	2.5 kVrms	2.7 - 5.5	-40 to +125 °C		•	•
Si8430BB-D-IS(1)	3	0	150	•					•	•
Si8431AB-D-IS(1)	2	1	1	•					•	•
Si8431BB-D-IS(1)	2	1	150	•					•	•
Si8435BB-D-IS(1)	3	0	150						•	•
Si8440AB-D-IS(1)	4	0	1	•	2.5 kVrms	2.7 - 5.5	-40 to +125 °C		•	•
Si8440BB-D-IS(1)	4	0	150	•					•	•
Si8441AB-D-IS(1)	3	1	1	•					•	•
Si8441BB-D-IS(1)	3	1	150	•					•	•
Si8442AB-D-IS(1)	2	2	1	•					•	•
Si8442BB-D-IS(1)	2	2	150	•					•	•
Si8445BB-D-IS(1)	4	0	150						•	•
Si8450AB-B-IS1	5	0	1	•	2.5 kVrms	2.7 - 5.5	-40 to +125 °C			•
Si8450BB-B-IS1	5	0	150	•						•
Si8451AB-B-IS1	4	1	1	•						•
Si8451BB-B-IS1	4	1	150	•						•
Si8452AB-B-IS1	3	2	1	•						•
Si8452BB-B-IS1	3	2	150	•						•
Si8455BB-B-IS1	5	0	150							•
Si8460AB-B-IS1	6	0	1	•	2.5 kVrms	2.7 - 5.5	-40 to +125 °C			•
Si8460BB-B-IS1	6	0	150	•						•
Si8461AB-B-IS1	5	1	1	•						•
Si8461BB-B-IS1	5	1	150	•						•
Si8462AB-B-IS1	4	2	1	•						•
Si8462BB-B-IS1	4	2	150	•						•
Si8463AB-B-IS1	3	3	1	•						•
Si8463BB-B-IS1	3	3	150	•						•

Multi-Channel Unidirectional Digital Isolators (5 kVrms)

PART NUMBER	FORWARD CHANNELS	REVERSE CHANNELS	MAXIMUM DATA RATE (MBPS)	ENABLE OUTPUT	ISOLATION RATING	VOLTAGE RANGE (V)	TEMPERATURE RANGE	PACKAGE(S)		
								NB SOIC8	WB SOIC16	NB SOIC16
Si8410AD-A-IS (2)	1	0	1		5 kVrms	2.7 - 5.5	-40 to +125 °C		•	
Si8410BD-A-IS (2)	1	0	150						•	
Si8420AD-A-IS (2)	2	0	1						•	
Si8420BD-A-IS (2)	2	0	150						•	
Si8421AD-B-IS (2)	1	1	1						•	
Si8421BD-B-IS (2)	1	1	150						•	
Si8422AD-B-IS	1	1	1						•	
Si8422BD-B-IS	1	1	150						•	
Si8423AD-B-IS	2	0	1						•	
Si8423BD-B-IS	2	0	150						•	

Bidirectional Digital Isolators (2.5 kV and 1.0 kV)

PART NUMBER	SERIAL DATA	SERIAL CLOCK	UNIDIRECTIONAL CHANNELS	MAX. I²C CLOCK RATE	ISOLATION RATING	PACKAGE(S)	
						NB SOIC8	NB SOIC16
Si8400AA-B-IS	•	•	0	1.7 MHz	1.0 kVrms	•	
Si8400AB-B-IS	•	•	0	1.7 MHz	2.5 kVrms	•	
Si8401AA-B-IS	•		Clock	1.7 MHz	1.0 kVrms	•	
Si8401AA-B-IS	•		Clock	1.7 MHz	2.5 kVrms	•	
Si8405AB-B-IS1	•	•	1 forward and 1 reverse	1.7 MHz	1.0 kVrms		•
Si8405AB-B-IS1	•	•	1 forward and 1 reverse	1.7 MHz	2.5 kVrms		•

Isolated Gate Drivers

PART NUMBER	INPUTS	CONFIGURATION	OVERLAP PROTECTION	PROGRAMMABLE DEAD TIME	PK IOUT	PACKAGE(S)			
						SOIC8	NB SOIC16	WB SOIC16	LGA14
Si8220	Opto (Passive)	Single Driver			2.5 A	SO • IC16		•	
Si8221	Opto (Passive)	Single Driver			0.5 A	•		•	
Si8230	VIA/ VIB	High-Side/Low-Side	•	•	0.5 A		•	•	
Si8231	PWM	High-Side/Low-Side	•	•	0.5 A		•	•	
Si8232	VIA/ VIB	Dual Channel Driver			0.5 A		•	•	
Si8233	VIA/ VIB	High-Side/Low-Side	•	•	4.0 A		•	•	•
Si8234	PWM	High-Side/Low-Side	•	•	4.0 A		•	•	•
Si8235	VIA/ VIB	Dual Channel Driver			4.0 A		•	•	•
Si8236	VIA/ VIB	Dual Channel Driver with Thermal Pad			4.0 A				•

Isolated Current Sensors

PART NUMBER	FULL SCALE CURRENT (A)	INITIAL ACCURACY %	TEMP RANGE	OUTPUT MODE	ISOLATION RATING	PIN 7 FUNCTION	PACKAGE(S)	
							QFN12	SOIC20
Si8501	5	± 5%	-40 to 125 °C	Single	1 or 5 kV rms[1]	Integrator Reset Time Programming Input	•	•
Si8502	10	± 5%	-40 to 125 °C	Single	1 or 5 kV rms[1]	Integrator Reset Time Programming Input	•	•
Si8503	20	± 5%	-40 to 125 °C	Single	1 or 5 kV rms[1]	Integrator Reset Time Programming Input	•	•
Si8511	5	± 5%	-40 to 125 °C	Ping-Pong	1 or 5 kV rms[1]	Integrator Reset Time Programming Input	•	•
Si8512	10	± 5%	-40 to 125 °C	Ping-Pong	1 or 5 kV rms[1]	Integrator Reset Time Programming Input	•	•
Si8513	20	± 5%	-40 to 125 °C	Ping-Pong	1 or 5 kV rms[1]	Integrator Reset Time Programming Input	•	•
Si8517	5	± 5%	-40 to 125 °C	Ping-Pong with FAULT output	1 or 5 kV rms[1]	Fault Output	•	•
Si8518	10	± 5%	-40 to 125 °C	Ping-Pong with FAULT output	1 or 5 kV rms[1]	Fault Output	•	•
Si8519	20	± 5%	-40 to 125 °C	Ping-Pong with FAULT output	1 or 5 kV rms[1]	Fault Output	•	•
Si8540	Programmable	± 2%	-40 to 85 °C	Programmable			5 or 8-pin SOIC	

[1]5 kV isolation available in 20-pin SOIC package

Power over Ethernet Controllers

PART NUMBER	PART DESCRIPTION	TEMPERATURE RANGE	MAX. OUTPUT POWER	PACKAGE(S)
Si3402	Powered device I/F with PWM controller and low-EMI	-40 to 85 °C	17 W	5 x 5 mm 20-pin QFN
Si3452A-B01-GM	Quad PoE+ PSE controller; Alt:A; PoE; Auto dV/dt	-40 to 85 °C	40 W	6 x 6 mm 40-pin QFN
Si3452-B01-GM	Quad PoE+ PSE controller; Alt:A; PoE; Shutdown; dV/dt	-40to 85 °C	40 W	6 x 6 mm 40-pin QFN
Si3452B-B01-GM	Quad PoE+ PSE controller; Alt:B; PoE; Auto; dV/dt	-40 to 85 °C	40 W	6 x 6 mm 40-pin QFN
Si3452C-B01-GM	Quad PoE+ PSE controller, Alt:A, PoE+; Auto dV/dt	-40 to 85 °C	40 W	6 x 6 mm 40-pin QFN
Si3452D-B01-GM	Quad PoE+ PSE controller, Alt:B, PoE+; Auto dV/dt	-40 to 85 °C	40 W	6 x 6 mm 40-pin QFN
Si3460-D01-GM	Single port PSE with dc-dc controller	-40 to 85 °C	15.4 W	3 x 3 mm 11-pin QFN
Si3461-E01-GM	Single port PoE+ controller	-40 to 85 °C	30 W	3 x 3 mm 11-pin QFN
Si3480-A01-GM	8-port power management controller	-40 to 85 °C	30 W	4 x 4 mm 24-pin QFN
Si3482-A01-GM	48-port power management controller	-40 to 85 °C	30 W	4 x 4 mm 24-pin QFN
Si3500-A-GM	High voltage dc-dc controller (-42 to -57 V input range)	-40 to 85 °C	17 W	5 x 5 mm 20-pin QFN

Clocks and Oscillators

REQUEST SAMPLES AND DOWNLOAD DOCUMENTATION AT www.silabs.com/clocks

Clock Generators: www.silabs.com/clock-generators

Integrated Clock + VCXO Solutions

PART NUMBER	CONTROL	CLOCK INPUT/ OUTPUTS	INPUT FREQUENCY (MHz)	OUTPUT FREQUENCY (MHz)	PERIOD JITTER (PP)	VDD	VDDO	OUTPUT	PACKAGE
SL38000	Pin/I²C	1/12	3-166 (Clock), 8-48 (Xtal)	3-200 MHz	—	1.8, 2.5, 3.3 V	1.8, 2.5, 3.3 V	LVCMOS	28TSSOP
SL38000ZI-15H	Pin	1/5	25	12 MHz, 25 MHz, 50 MHz, 125 MHz, 133 MHz,	—	3.3 V	3.3 V	LVCMOS	28TSSOP
SL38160	Pin/I²C	1/8	3-166 (Clock), 8-48 (Xtal)	3-200 MHz	—	1.8, 2.5, 3.3 V	1.8, 2.5, 3.3 V	LVCMOS	16TSSOP
SL38160-17AH	I²C	1/4	27	27 MHz, 8.19 MHz-49.15 MHz, 13.5 MHz-148.5 MHz	—	3.3 V	3.3 V	LVCMOS	16TSSOP
SL38160-18AH	Pin/I²C	2/2	27	27 MHz, 25 MHz-202 MHz	—	3.3 V	3.3 V	LVCMOS	16TSSOP
Si5350B	Pin	1/3 or 1/8	25/27 (Xtal)	8 kHz-133 MHz	100 ps	2.5, 3.3 V	2.5, 3.3 V	LVCMOS	10MSOP/24QSOP/20QFN
Si5351B	I²C	1/3 or 1/8	25/27 (Xtal)	8 kHz-133 MHz	100 ps	2.5, 3.3 V	2.5, 3.3 V	LVCMOS	10MSOP/24QSOP/20QFN

LVCMOS Clock Generators (1-4 Outputs)

PART NUMBER	CONTROL	CLOCK INPUT/ OUTPUTS	INPUT FREQUENCY (MHZ)	OUTPUT FREQUENCY (MHZ)	PERIOD JITTER (PP)	VDD	VDDO	OUTPUT	PACKAGE
SL15100	Pin	1/2	3 to 166 (Clock), 8 to 48 (Xtal)	3-200 MHz	—	2.5, 3.3 V	—	LVCMOS	8TSSOP
SL15300	Pin	1/4	3 to 166 (Clock), 8 to 48 (Xtal)	3-200 MHz	—	1.8, 2.5, 3.3 V	—	LVCMOS	8TSSOP
SL15303	Pin	1/3	3 to 166 (Clock), 8 to 48 (Xtal)	3-200 MHz	—	1.8, 2.5, 3.3 V	—	LVCMOS	8TSSOP
SL16010DC	Pin/I²C	1/2	27 (Xtal)	27 MHz, 100 MHz	—	3.3 V	—	LVCMOS	10TDFN
SL16020DC	Pin/I²C	1/2	27 (Xtal)	27 MHz, 100 MHz	—	3.3 V	—	LVCMOS	10TDFN
Si5350A-A-GT	Pin	1/3	25/27 (Xtal)	8 kHz-133 MHz	100 ps	2.5, 3.3 V	2.5, 3.3 V	LVCMOS	10MSOP
Si5350C-A-GT	Pin	1/3	25/27 (Xtal)	8 kHz-133 MHz	100 ps	2.5, 3.3 V	2.5, 3.3 V	LVCMOS	10MSOP
Si5351A-A-GT	I²C	1/3	25/27 (Xtal)	8 kHz-133 MHz	100 ps	2.5, 3.3 V	2.5, 3.3 V	LVCMOS	10MSOP

LVCMOS Clock Generators (5+ Outputs)

PART NUMBER	CONTROL	CLOCK INPUT/ OUTPUTS	INPUT FREQUENCY (MHz)	OUTPUT FREQUENCY (MHz)	PERIOD JITTER (PP)	VDD	VDDO	OUTPUT	PACKAGE
SL38000	Pin/I²C	1/12	3-166 (Clock), 8-48 (Xtal)	3-200 MHz	—	1.8, 2.5, 3.3 V	1.8, 2.5, 3.3 V	LVCMOS	28TSSOP
SL38000ZI-15H	Pin	1/5	25	12 MHz, 25 MHz, 50 MHz, 125 MHz, 133 MHz,	—	3.3 V	3.3 V	LVCMOS	28TSSOP
SL38160	Pin/I²C	1/8	3-166 (Clock), 8-48 (Xtal)	3-200 MHz	—	1.8, 2.5, 3.3 V	1.8, 2.5, 3.3 V	LVCMOS	16TSSOP
SL38160-17AH	I²C	1/4	27	27 MHz, 8.19 MHz-49.15 MHz, 13.5 MHz-148.5 MHz	—	3.3 V	3.3 V	LVCMOS	16TSSOP
SL38160-18AH	Pin/I²C	2/2	27	27 MHz, 25 MHz-202 MHz	—	3.3 V	3.3 V	LVCMOS	16TSSOP
Si5350A	Pin	1/8	25/27 (Xtal)	8 kHz-133 MHz	100 ps	2.5, 3.3 V	2.5, 3.3 V	LVCMOS	20QFN/24QSOP
Si5350C	Pin	1/8	25/27 (Xtal)	8 kHz-133 MHz	100 ps	2.5, 3.3 V	2.5, 3.3 V	LVCMOS	20QFN/24QSOP
Si5351A	I²C	1/8	25/27 (Xtal)	8 kHz-133 MHz	100 ps	2.5, 3.3 V	2.5, 3.3 V	LVCMOS	20QFN/24QSOP
Si5351C	I²C	1/8	25/27 (Xtal)	8 kHz-133 MHz	100 ps	2.5, 3.3 V	2.5, 3.3 V	LVCMOS	20QFN/24QSOP
Si5355	Pin	1/8	25/27 (Xtal)	1-200 MHz	50 ps	1.8, 2.5, 3.3 V	1.8, 2.5, 3.3 V	LVCMOS	24QFN

PCI Express Clocks

PART NUMBER	CONTROL	CLOCK INPUT/ OUTPUTS	INPUT FREQUENCY (MHz)	OUTPUT FREQUENCY (MHz)	PHASE JITTER (RMS)	VDD	VDDO	OUTPUT	PACKAGE
SL28PCIe25	Pin/I²C	1/4	25 MHz	100 MHz, 25 MHz	3.1 ps	3.3 V	3.3 V	LVCMOS, HCSL	32QFN
SL28PCIe26	Pin/I²C	1/4	25 MHz	100 MHz	3.1 ps	3.3 V	3.3 V	HCSL	32QFN
SL28PCIe16	Pin/I²C	1/6	10 MHz -45 MHZ	100 MHz	1 ps	3.3 V	3.3 V	HCSL	32QFN
CY28400	Pin/I²C	1/4	100 MHz	100 MHz	—	3.3 V	3.3 V	HCSL	28SSOP
CY28400-2	Pin/I²C	1/4	100 MHz	100 MHz	—	3.3 V	3.3 V	HCSL	28SSOP/ 28TSSOP
CY28401	Pin/I²C	1/8	100 MHz	100 MHz	—	3.3 V	3.3 V	HCSL	48SSOP
CY28800	Pin/I²C	1/8	100 MHz	100 MHz	—	3.3 V	3.3 V	HCSL	48SSOP
SL28DB200	Pin	1/2	100 MHz	100 MHz	—	3.3 V	3.3 V	HCSL	16TSSOP
SL28PCIe14	Pin/I²C	2/4	25 MHz/100 MHz	100 MHz	1 ps	3.3 V	3.3 V	HCSL	32QFN
SL28SRC01	Pin	1/1	14.318 MHz	100 MHz	1 ps	3.3 V	3.3 V	HCSL	16TSSOP
SL28SRC02	Pin	1/2	14.318 MHz	100 MHz	1 ps	3.3 V	3.3 V	HCSL	20TSSOP
SL28SRC04	Pin	1/4	14.318 MHz	100 MHz	1 ps	3.3 V	3.3 V	HCSL	24TSSOP
Si5356	I²C	1/8	25/27 (Xtal)	1-200 MHz	2.0 ps	1.8, 2.5, 3.3 V	1.8, 2.5, 3.3 V	LVCMOS	24QFN
Si5334K	Pin	1/4	8-30 (Xtal) or 5-710 MHz	0.16-710 MHz	1.0 ps	1.8, 2.5, 3.3 V	1.8, 2.5, 3.3 V	LVPECL, LVDS, LVCMOS, HCSL, SSTL, HSTL	24QFN
Si5334L	Pin	1/4	8-30 (Xtal) or 5-710 MHz	0.16-350 MHz	1.0 ps	1.8, 2.5, 3.3 V	1.8, 2.5, 3.3 V	LVPECL, LVDS, LVCMOS, HCSL, SSTL, HSTL	24QFN
Si5334M	Pin	1/4	8-30 (Xtal) or 5-710 MHz	0.16-200 MHz	1.0 ps	1.8, 2.5, 3.3 V	1.8, 2.5, 3.3 V	LVPECL, LVDS, LVCMOS, HCSL, SSTL, HSTL	24QFN
Si5338	I²C	1/4	8-30 (Xtal) or 5-710 (Clock)	0.16-710 MHz	1.0 ps	1.8, 2.5, 3.3 V	1.8, 2.5, 3.3 V	LVPECL, LVDS, LVCMOS, HCSL, SSTL, HSTL	24QFN

Embedded/Intel x86 Clocks

PART NUMBER	CONTROL	CLOCK INPUT/ OUTPUTS	INPUT FREQUENCY (MHz)	OUTPUT FREQUENCY (MHz)	VDD	VDDO	OUTPUT	PACKAGE
CY28317-2	Pin/I²C	1/20	14.318 MHz	14.318 MHz, 24 MHz, 31 MHz-39.3 MHz, 48 MHz, 66.8 MHz-200 MHz,	3.3 V	3.3 V	LVCMOS, HCSL	48SSOP/48TSSOP
CY28323	Pin/I²C	1/21	14.318 MHz	14.318 MHz, 24 MHz, 31.5 MHz-41 MHz, 48 MHz, 63 MHz-82 MHz, 66.8 MHz-200.4 MHz,	3.3 V	3.3 V	LVCMOS, HCSL	48SSOP
CY28329	Pin/I²C	1/22	14.318 MHz	14.318 MHz, 33 MHz, 48 MHz, 66 MHz, 100-133 MHz	3.3 V	3.3 V	LVCMOS, HCSL	56SSOP/56TSSOP
CY28346	Pin/I²C	1/20	14.318 MHz	14.31818 MHz, 33 MHz, 48 MHz, 66 MHz, 66 MHz-200 MHz	3.3 V	3.3 V	LVCMOS, HCSL	56SSOP/56TSSOP
CY28346-2	Pin/I²C	1/20	14.31818 MHz	14.31818 MHz, 33 MHz, 48 MHz, 66 MHz, 66 MHz-200 MHz	3.3 V	3.3 V	LVCMOS, HCSL	56TSSOP
CY28353-2	I²C	2/7	60-170 MHz	60 -170 MHz	2.5 V	2.5 V	HCSL	28SSOP

Embedded Intel 86x Clocks (cont.)

PART NUMBER	CONTROL	CLOCK INPUT/ OUTPUTS	INPUT FREQUENCY (MHz)	OUTPUT FREQUENCY (MHz)	VDD	VDDO	OUTPUT	PACKAGE
CY28354-400	I²C	2/12	60-210 MHz	60-170 MHz	2.5 V	2.5 V	HCSL	48SSOP
CY28378	Pin/I²C	1/21	14.318 MHz	14.318 MHz, 24 MHz, 31.4 MHz-41 MHz, 48 MHz, 66.6 MHz-82 MHz, 100 MHz-200.4 MHz	3.3 V	3.3 V	LVCMOS, HCSL	48SSOP
CY28409	Pin/I²C	1/23	14.318 MHz	14.318 MHz, 33 MHz, 48 MHz, 66 MHz, 100 MHz - 200 MHz	3.3 V	3.3 V	LVCMOS, HCSL	56SSOP/56TSSOP
CY28409A	Pin/I²C	1/23	14.318 MHz	14.3 MHz, 33 MHz, 48 MHz, 66 MHz, 100 MHz-200 MHz, 133 MHz-400 MHz	3.3 V	3.3 V	LVCMOS, HCSL	56SSOP/56TSSOP
CY28410	Pin/I²C	1/19	14.318 MHz	14.3 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz, 100 MHz-266 MHz	3.3 V	3.3 V	LVCMOS, HCSL	56SSOP/56TSSOP
CY28410-2	Pin/I²C	1/21	14.31818 MHz	14.3 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz, 100 MHz-266 MHz	3.3 V	3.3 V	LVCMOS, HCSL	56SSOP/56TSSOP
CY284108	Pin/I²C	1/19	14.318 MHz	14.3 MHz, 33 MHz, 48 MHz, 100 MHz, 100 MHz-400 MHz,	3.3 V	3.3 V	LVCMOS, HCSL	56SSOP/56TSSOP
CY28411	Pin/I²C	1/19	14.318 MHz	14.3 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz, 100 MHz-33 MHz,	3.3 V	3.3 V	LVCMOS, HCSL	56SSOP/56TSSOP
CY28419	Pin/I²C	1/24	14.318 MHz	14.3 MHz, 33 MHz, 48 MHz, 66 MHz, 100 MHz-333 MHz,	3.3 V	3.3 V	LVCMOS, HCSL	56SSOP
CY28442-2	Pin/I²C	1/20	14.318 MHz	14.3 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz, 100 MHz-200 MHz	3.3 V	3.3 V	LVCMOS, HCSL	56TSSOP
CY28443	Pin/I²C	1/20-21	14.31818 MHz	14.3 MHz, 27 MHz, 33 MHz, 48 MHz, 100 MHz, 133 MHz, 166 MHz, 200 MHz	3.3 V	3.3 V	LVCMOS, HCSL	56SSOP/56TSSOP
CY28443-2	Pin/I²C	1/19-20	14.31818 MHz	14.3 MHz, 24 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz, 100 MHz-200 MHz	3.3 V	3.3 V	LVDS, LVCMOS, HCSL	56SSOP/56TSSOP
CY28445-5	Pin/I²C	1/1-16	14.318 MHz	14.3 MHz, 24 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz, 100 MHz-200 MHz	3.3 V	3.3 V	LVCMOS, HCSL	68QFN
CY28446	Pin/I²C	1/20	14.318 MHz	14.3 MHz, 24 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz, 100 MHz-200 MHz	3.3 V	3.3 V	LVCMOS, HCSL	68QFN
CY28447	Pin/I²C	1/22-23	14.318 MHz	14.3 MHz, 24 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz, 100 MHz-200 MHz	3.3 V	3.3 V	LVCMOS, HCSL	72QFN
CY28508	Pin/I²C	1/4	14.31818 MHz	14.3 MHz, Programmable Diff	3.3 V	3.3 V	LVCMOS, HCSL	28SSOP
CY28547	Pin/I²C	1/23	14.31818 MHz	14.3 MHz, 24 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz-167 MHz, 100 MHz-400.65 MHz	3.3 V	3.3 V	LVCMOS, HCSL	72QFN
CY28551	Pin/I²C	1/23	14.31818 MHz	14.3 MHz, 24 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz-167 MHz, 100 MHz-400.65 MHz	3.3 V	3.3 V	LVCMOS, HCSL	64QFN
CY28551-3	Pin/I²C	1/20	14.31818 MHz	14.3 MHz, 24 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz-167 MHz, 100 MHz-400.65 MHz	3.3 V	3.3 V	LVCMOS, HCSL	56QFN
CY28RS480	Pin/I²C	1/16	14.31818 MHz	14.3 MHz, 33 MHz, 48 MHz, 66 MHz,100 MHz, 200 MHz	3.3 V	3.3 V	LVCMOS, HCSL	56SSOP/56TSSOP
CY2SSTV850	I²C	2/11	170 MHz	20 MHz-170 MHz	2.5 V	2.5 V	SSTL2	48SSOP/48TSSOP
CY2SSTV855	Pin	2/5	170 MHz	20 MHz-170 MHz	2.5 V	2.5 V	SSTL2	28TSSOP
CY2SSTV857-27	Pin	2/11	200 MHz	20 MHz-200 MHz	2.5 V	2.5 V	SSTL2	48TSSOP
CY2SSTV857-32	Pin	2/11	230 MHz	20 MHz-230 MHz	2.6 V	2.6 V	SSTL2	48TSSOP/40QFN
CY505YC64DT	Pin/I²C	1/25	14.31818 MHz	14.3 MHz, 24 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz-167 MHz, 100 MHz-400.65 MHz	3.3 V	0.8 V	LVCMOS, HCSL	64TSSOP
CYI9530	Pin/I²C	1/11	25 MHz-33 MHz	25 MHz-133 MHz	3.3 V	3.3 V	LVCMOS	48SSOP/48TSSOP
CYI9531	Pin/I²C	1/6	25 MHz-33 MHz	25 MHz-133 MHz	3.3 V	3.3 V	LVCMOS	28SSOP/28TSSOP
W150	Pin/I²C	1/32	14.31818 MHz - 150 MHz	14.3 MHz, 24 MHz, 31 MHz-44.43 MHz, 48 MHz, 66 MHz-133 MHz, 75 MHz-150 MHz, 100 MHz	3.3 V	3.3 V	LVCMOS, HCSL	56SSOP
W173	Pin/I²C	1/4	26.5625 MHz	6.6 MHz, 13.2 MHz, 10 MHz, 50 MHz	3.3 V or 5.0 V	3.3 V or 5.0 V	TTL	16SOIC
W255	Pin/I²C	1/13-19	200 MHz	200 MHz	2.5 V/ 3.3 V	2.5 V/ 3.3 V	SSTL2, LVCMOS	44SSOP
W256	Pin/I²C	1/12	66 MHz-180 MHz	66 MHz-180 MHz	2.5 V/3.3 V	2.5 V/3.3 V	SSTL2, LVCMOS	28SSOP
W305B	Pin/I²C	1/27	14.31818 MHz	14.318 MHz, 24 MHz, 33 MHz, 48 MHz, 66 MHz, 66 MHz-200 MHz	3.3 V	3.3 V	LVCMOS	48SSOP

Embedded Intel 86x Clocks (cont.)

PART NUMBER	CONTROL	CLOCK INPUT/ OUTPUTS	INPUT FREQUENCY (MHz)	OUTPUT FREQUENCY (MHz)	VDD	VDDO	OUTPUT	PACKAGE
W311	Pin/I²C	1/19	14.318 MHz	14.318 MHz, 24 MHz, 33 MHz, 48 MHz, 66 MHz, 66 MHz-200 MHz	3.3 V	3.3 V	LVCMOS	48SSOP
W320-3	Pin/I²C	1/22	14.318 MHz	14.318 MHz, 33 MHz, 48 MHz, 66 MHz, 66 MHz-200 MHz	3.3 V	3.3 V	LVCMOS	56SSOP/56TSSOP
W320-4	Pin/I²C	1/22	14.318 MHz	14.318 MHz, 33 MHz, 48 MHz, 66 MHz, 66 MHz-200 MHz	3.3 V	3.3 V	LVCMOS	56SSOP/56TSSOP
SL28442-2	Pin/I²C	1/20	14.318 MHz	14.318 MHz, 33 MHz, 48 MHz 66.6 MHz, 71.4 MHz, 83.3 MHz 96 MHz, 100 MHz	3.3 V	3.3 V	LVCMOS, HCSL	56TSSOP
SL28504	Pin/I²C	1/20-23	14.318 MHz	14.318 MHz, 24.576 MHz, 25 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz	3.3 V	3.3 V-1.05 V	LVCMOS, HCSL	64TSSOP
SL28504-1	Pin/I²C	1/19-20	14.318 MHz	14.318 MHz, 24.576 MHz, 25 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz	3.3 V	3.3 V-1.05 V	LVCMOS, HCSL	56TSSOP
SL28504-2	Pin/I²C	1/20-21	14.318 MHz	14.318 MHz, 24.576 MHz, 25 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz	3.3 V	3.3 V-1.05 V	LVCMOS, HCSL	56TSSOP
SL28506	Pin/I²C	1/20-23	14.318 MHz	14.318 MHz, 25 MHz, 27 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz, 100 MHz-400 MHz	3.3 V	3.3 V-1.05 V	LVCMOS, HCSL	64TSSOP
SL28506-2	Pin/I²C	1/19-20	14.318 MHz	14.318 MHz, 25 MHz, 27 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz, 100 MHz-400 MHz	3.3 V	3.3 V-1.05 V	LVCMOS, HCSL	56TSSOP
SL28540	Pin/I²C	1/17	14.318 MHz	14.3 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz, 133 MHz, 166 MHz, 200 MHz	3.3 V	3.3 V-1.05 V	LVCMOS, HCSL	56QFN
SL28541	Pin/I²C	1/20-23	14.318 MHz	14.318 MHz, 25 MHz, 27 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz, 100 MHz-400 MHz	3.3 V	3.3 V-1.05 V	LVCMOS, HCSL	64TSSOP
SL28541-2	Pin/I²C	1/18-19	14.318 MHz	14.3 MHz, 27 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz, 133 MHz, 166 MHz, 200 MHz, 266 MHz, 333 MHz, 400 MHz	3.3 V	3.3 V-1.05 V	LVCMOS, HCSL	56TSSOP
SL28610	Pin/I²C	1/9	14.318 MHz	14.318 MHz, 96 MHz, 100 MHz, 100 MHz-200 MHz	1.5 V	3.3 V-1.05 V	LVCMOS, HCSL	48QFN
SL28647	Pin/I²C	1/22	14.318 MHz	14.3 MHz, 27 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz, 133 MHz, 166 MHz, 200 MHz, 266 MHz, 333 MHz, 400 MHz	3.3 V	3.3 V	LVCMOS, HCSL	72QFN
SL28748	Pin/I²C	1/8	14.318 MHz	14.3 MHz, 27 MHz, 96 MHz, 100 MHz, 133 MHz	3.3 V	3.3 V-1.05 V	LVCMOS, HCSL	32QFN
SL28770	Pin/I²C	1/9	14.318 MHz	14.318 MHz, 27 MHz, 48 MHz, 96 MHz, 100 MHz, 133 MHz	3.3 V	3.3 V-1.05 V	LVCMOS, HCSL	32QFN
SL28773	Pin/I²C	1/9	14.318 MHz	14.318 MHz, 27 MHz, 48 MHz, 96 MHz, 100 MHz, 133 MHz	3.3 V	3.3 V-1.05 V	LVCMOS, HCSL	32QFN
SL28774	Pin/I²C	1/9	14.318 MHz	14.318 MHz, 27 MHz, 48 MHz, 96 MHz, 100 MHz, 133 MHz	3.3 V	3.3 V-1.05 V	LVCMOS, HCSL	32QFN
SL28779	Pin/I²C	1/9	14.318 MHz	14.318 MHz, 27 MHz, 48 MHz, 96 MHz, 100 MHz, 133 MHz	3.3 V	3.3 V-1.05 V	LVCMOS, HCSL	32QFN
SL28EB717	Pin/I²C	1/13	25 MHz	12 MHz, 14.318 MHz, 25 MHz, 27 MHz, 33 MHz, 48 MHz, 75 MHz, 96 MHz, 83.33 MHz-166 MHz, 100 MHz	3.3 V	3.3 V	LVCMOS, HCSL	48QFN
SL28EB719	Pin/I²C	1/13	25 MHz	12 MHz, 14.318 MHz, 25 MHz, 27 MHz, 33 MHz, 48 MHz, 75 MHz, 96 MHz, 83.33 MHz-166 MHz, 100 MHz	3.3 V	3.3 V	LVCMOS, HCSL	48TSSOP
SL28EB740	Pin/I²C	1/16	25 MHz	12 MHz, 14.318 MHz, 25 MHz, 33 MHz, 48 MHz, 75 MHz, 96 MHz, 83.33 MHz-166 MHz, 100 MHz	3.3 V	3.3 V	LVCMOS, HCSL	56TSSOP
SPL505YC256B	Pin/I²C	1/22	14.318 MHz	14.318 MHz, 24.576 MHz, 25 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz, 133.33 MHz, 166.67 MHz, 200 MHz, 266 MHz, 333 MHz, 400 MHz	3.3 V	3.3 V-1.05 V	LVCMOS	56TSSOP
SPL505YC264BT	Pin/I²C	1/22	14.318 MHz	14.318 MHz, 24.576 MHz, 25 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz, 133.33 MHz, 166.67 MHz, 200 MHz, 266 MHz, 333 MHz, 400 MHz	3.3 V	3.3 V-1.05 V	LVCMOS	64TSSOP
W134	Pin	1/1	25 MHz-100 MHz	25 MHz-400 MHz	3.3 V	3.3 V	RSL	24QSOP
W158	Pin	1/24	14.318 MHz	14.318 MHz, 16.67 MHz, 33.33 MHz, 48 MHz, 66 MHz, 100 MHz, 133 MHz	3.3 V	3.3 V	LVCMOS	56SSOP
W320-04	Pin	1/23	14.318 MHz	14.318 MHz, 33.33 MHz, 48 MHz, 66 MHz, 100 MHz, 133 MHz, 200 MHz	3.3 V	3.3 V	LVCMOS	56TSSOP/56SSOP
CY28548	Pin/I²C	1/22	14.318 MHz	14.318 MHz, 24.576 MHz, 25 MHz, 33 MHz, 48 MHz, 96 MHz, 100 MHz, 133.33 MHz, 166.67 MHz, 200 MHz, 266 MHz, 333 MHz, 400 MHz	3.3 V	3.3 V-1.05 V	LVCMOS	64TSSOP

Differential + LVCMOS Clock Generators

PART NUMBER	CONTROL	CLOCK INPUT/ OUTPUTS	INPUT FREQUENCY (MHZ)	OUTPUT FREQUENCY (MHZ)	PHASE JITTER (RMS)	VDD	VDDO	OUTPUT	PACKAGE
Si5338	I²C	4/4	8-30 (Xtal) or 5-710 (Clock)	0.16-710 MHz 0.16-350 MHz 0.16-200 MHz	1.0 ps	1.8, 2.5, 3.3 V	1.8, 2.5, 3.3 V	LVCMOS, LVDS, LVPECL, HCSL, SSTL, HSTL	24QFN
Si5334	Pin	1/4			1.0 ps	1.8, 2.5, 3.3 V	1.8, 2.5, 3.3 V		24QFN
SL28PCIe10	Pin/I²C	1/8	10-45 MHz	100 MHz, 25 MHz, 27 MHz, Programmable SE	3.1 ps	3.3 V	3.3-1.05 V	LVCMOS, HCSL	32QFN
SL28PCIe30	Pin/I²C	1/9	10-45 MHz	25MHz, 100MHz, Programmable SE	3.1 ps	3.3 V	3.3 V		32QFN
SL28PCIe50	Pin/I²C	1/10	10-45 MHz	25MHz, 100MHz, Programmable SE	3.1 ps	3.3 V	3.3-1.05 V		48QFN

EMI Reduction Clocks

PART NUMBER	CONTROL	CLOCK INPUT/ OUTPUTS	INPUT FREQUENCY (MHz)	OUTPUT FREQUENCY (MHz)	PHASE JITTER (RMS)	VDD	VDDO	OUTPUT	PACKAGE
SL28SRC01	Pin	1/1	14.318 MHz	100 MHz	—	3.3 V	3.3 V	HCSL	16TSSOP
SL28SRC02	Pin	1/2	14.318 MHz	100 MHz	—	3.3 V	3.3 V	HCSL	20TSSOP
SL28SRC04	Pin	1/4	14.318 MHz	100 MHz	—	3.3 V	3.3 V	HCSL	24TSSOP
SL15100	Pin	1/2	3 to 166 (Clock), 8 to 48 (Xtal)	3-200 MHz	—	2.5, 3.3 V	—	LVCMOS	8TSSOP
SL15300	Pin	1/4	3 to 166 (Clock), 8 to 48 (Xtal)	3-200 MHz	—	1.8, 2.5, 3.3 V	—	LVCMOS	8TSSOP
SL15303	Pin	1/3	3 to 166 (Clock), 8 to 48 (Xtal)	3-200 MHz	—	1.8, 2.5, 3.3 V	—	LVCMOS	8TSSOP
SL16010DC	Pin/I²C	1/2	27 (Xtal)	27 MHz, 100 MHz	—	3.3 V	—	LVCMOS	10TDFN
SL16020DC	Pin/I²C	1/2	27 (Xtal)	27 MHz, 100 MHz	—	3.3 V	—	LVCMOS	10TDFN
Si5350	Pin	1/8	25/27 (Xtal)	8 kHz-133 MHz	100 ps	2.5, 3.3 V	2.5, 3.3 V	LVCMOS	20QFN/24QSOP/10MSOP
Si5351	I²C	1/8	25/27 (Xtal)	8 kHz-133 MHz	100 ps	2.5, 3.3 V	2.5, 3.3 V	LVCMOS	20QFN/24QSOP
Si5356	I²C	1/8	25/27 (Xtal) or 5-200 MHz	1-200 MHz	2.0 ps	1.8, 2.5, 3.3 V	1.8, 2.5, 3.3 V	LVCMOS	24QFN
Si5338	I²C	1/4	8-30 (Xtal) or 5-710 (Clock)	0.16-710 MHz 0.16-350 MHz 0.16-200 MHz	1.0 ps	1.8, 2.5, 3.3 V	1.8, 2.5, 3.3 V	LVCMOS, LVPECL, SSTL, HSTL, LVDS, HCSL,	24QFN

Clock Buffers: www.silabs.com/clock-buffers

Zero Delay Buffers

PART NUMBER	CONTROL	CLOCK INPUT/ OUTPUTS	INPUT FREQUENCY (MHz)	OUTPUT FREQUENCY (MHz)	PHASE JITTER (RMS)	VDD	VDDO	OUTPUT	PACKAGE
SL2305	Pin	1/5	1-140 MHz	1-140 MHz	—	3.3 V	—	LVCMOS	8TSSOP/8SOIC
SL2309	Pin	1/9	10-140 MHz	10-140 MHz	—	3.3 V	—	LVCMOS	16TSSOP/16SOIC
SL23EP04	Pin	1/4	10-220 MHz	10-220 MHz	—	2.5 V/3.3 V	—	LVCMOS	8SOIC
SL23EP05	Pin	1/5	10-220 MHz	10-220 MHz	—	2.5 V/3.3 V	—	LVCMOS	8TSSOP/8SOIC
SL23EP08	Pin	1/8	10-220 MHz	10-220 MHz	—	2.5 V/3.3 V	—	LVCMOS	16TSSOP/16SOIC
SL23EP09	Pin	1/9	10-220 MHz	10-220 MHz	—	2.5 V/3.3 V	—	LVCMOS	16TSSOP/16SOIC
Si5338	Pin	1/4	8-30 (Xtal) or 5-710 (Clock)	0.16-710 MHz 0.16-350 MHz 0.16-200 MHz	1.0 ps	1.8, 2.5, 3.3 V	1.8, 2.5, 3.3 V	CMOS, LVPECL, LVDS, HCSL, SSTL, HSTL	24QFN

Fanout Buffers (non-PLL)

PART NUMBER	CONTROL	CLOCK INPUT/ OUTPUTS	INPUT FREQUENCY (MHz)	OUTPUT FREQUENCY (MHz)	PHASE JITTER (RMS)	VDD	VDDO	OUTPUT	PACKAGE
SL18860DC	Pin	1/3	10-52 MHz	10-52 MHz	—	3.3 V	—	LVCMOS	10TDFN
SL18861DC	Pin	1/3	10-52 MHz	10-52 MHz	—	3.3 V	—	LVCMOS	10TDFN
SL2309NZ	Pin	1/9	DC-140 MHz	DC-140 MHz	—	3.3 V	3.3 V	LVCMOS	16SOIC
SL23EP04NZ	Pin	1/4	DC-220 MHz	DC-220 MHz	—	2.5 V/3.3 V	—	LVCMOS	8TSSOP
CY28400	Pin/I²C	1/4	100 MHz	100 MHz	—	3.3 V	3.3 V	HCSL	28SSOP
CY28400-2	Pin/I²C	1/4	100 MHz	100 MHz	—	3.3 V	3.3 V	HCSL	28SSOP/28TSSOP
CY28401	Pin/I²C	1/8	100 MHz	100 MHz	—	3.3 V	3.3 V	HCSL	48SSOP
CY28800	Pin/I²C	1/8	100 MHz	100 MHz	—	3.3 V	3.3 V	HCSL	48SSOP
SL28DB200	Pin	1/2	100 MHz	100 MHz	—	3.3 V	3.3 V	HCSL	16TSSOP
SL28PCIe14	Pin/I²C	2/4	25 MHz	100 MHz	1 ps	3.3 V	3.3 V	HCSL	32QFN
SL2304NZ	Pin	1/4	1-140 MHz	1-140 MHz	—	3.3 V	—	LVCMOS	8TSSOP/8SOIC
SL2305NZ	Pin	1/5	1-140 MHz	1-140 MHz	—	3.3 V	—	LVCMOS	8TSSOP/8SOIC
SL23EP09NZ	Pin	1/9	1-220 MHz	1-220 MHz	—	2.5 V/3.3 V	—	LVCMOS	16TSSOP/16SOIC
Si5330	Pin	1/4	5-710 MHz	5-710 MHz	150 fs	1.8, 2.5, 3.3 V	1.8, 2.5, 3.3 V	LVPECL, LVDS, HCSL, SSTL, HSTL	24QFN
Si5330F	Pin	1/8	5-200 MHz	5-200 MHz	—	1.8, 2.5, 3.3 V	1.8, 2.5, 3.3 V	LVCMOS	24QFN

Jitter Attenuators/Clock Multipliers

PART NUMBER	# OF PLLS	CONTROL	CLOCK INPUTS/ OUTPUTS	INPUT FREQUENCY (MHz)	OUTPUT FREQUENCY (MHz)	JITTER (12 KHz TO 20 MHz)	PLL BANDWIDTH	HITLESS SWITCHING	DIGITAL HOLD	FREE RUN	SIGNAL FORMAT	PACKAGE
Si5315	1	Pin	2/2	0.008 to 644	0.008 to 644	450 fs rms typ	60 Hz to 8 kHz	•	•		CMOS, LVDS, LVPECL, CML	6 x 6 mm 36QFN
Si5316	1	Pin	2/1	19 to 710	19 to 710	300 fs rms typ	100 Hz to 8 kHz		•			6 x 6 mm 36QFN
Si5317	1	Pin	1/2	1 to 710	1 to 710	290 fs rms typ	60 Hz to 8 kHz		•			6 x 6 mm 36QFN
Si5319	1	I²C/SPI	1/1	0.002 to 710	0.002 to 1417	300 fs rms typ	60 Hz to 8 kHz			•		6 x 6 mm 36QFN
Si5323	1	Pin	2/2	0.008 to 707	0.008 to 1050	300 fs rms typ	60 Hz to 8 kHz	•	•			6 x 6 mm 36QFN
Si5324	1	I²C/SPI	2/2	0.002 to 710	0.002 to 1417	290 fs rms typ	4 Hz to 525 Hz	•	•	•		6 x 6 mm 36QFN
Si5326	1	I²C/SPI	2/2	0.002 to 710	0.002 to 1417	300 fs rms typ	60 Hz to 8 kHz	•	•	•		6 x 6 mm 36QFN
Si5327	1	I²C/SPI	2/2	0.002 to 710	0.002 to 808	500 fs rms typ	4 Hz to 525 Hz	•	•	•		6 x 6 mm 36QFN
Si5366	1	Pin	4/5	0.008 to 700	0.008 to 1050	300 fs rms typ	60 Hz to 8 kHz	•	•			14 x 14 mm 100TQFP
Si5368	1	I²C/SPI	4/5	0.002 to 710	0.002 to 1417	300 fs rms typ	60 Hz to 8 kHz	•	•	•		14 x 14 mm 100TQFP
Si5369	1	I²C/SPI	4/5	0.002 to 710	0.002 to 1417	300 fs rms typ	4 Hz to 525 Hz	•	•	•		14 x 14 mm 100TQFP
Si5374	4	I²C	8/8	0.002 to 710	0.002 to 808	410 fs rms typ	4 Hz to 525 Hz	•	•	•		80-pin BGA
Si5375	4	I²C	4/4	0.002 to 710	0.002 to 808	410 fs rms typ	60 Hz to 8 kHz		•	•		80-pin BGA

Clock and Data Recovery and Serializer/Deserializer ICs

PART NUMBER	DESCRIPTION
Si5010	OC-3/12/STM-1/4 SONET/SDH CDR, 2.5 V
Si5013	OC-3/12/STM-1/4 SONET/SDH CDR, with limiting amp, 3.3 V
Si5017	OC-48/STM-16 SONET/SDH CDR, with limiting amp, 3.3 V
Si5018	OC-48/STM-16 SONET/SDH CDR, 2.5 V
Si5020	OC-3/12/48 SONET/SDH, GbE CDR, 2.5 V
Si5023	OC-3/12/48 SONET/SDH, GbE CDR with limiting amp, 3.3 V
Si5040	OC-192/STM-64/10 GbE, Dual CDR XFP Transceiver, 9.9 to 11.4 Gbps (integrated jitter attenuation)
Si5100	OC-48/STM-16 SONET/SDH 1:16 Transceiver, 2.5 to 2.7 Gbps
Si5110	OC-48/STM-16 SONET/SDH 1:4 Transceiver, 2.5 to 2.7 Gbps

Fixed Frequency XO/VCXOs

PART NUMBER	TYPE	FREQUENCY	CONTROL	FREQUENCY RANGE	JITTER	STABILITY/APR (PPM)	OUTPUT FORMAT	PACKAGE
Si510/1	XO	Single	Pin	0.1 to 250 MHz	0.8 ps rms	±30, ±50, ±100	LVPECL, LVDS, HCSL, Dual LVCMOS, LVCMOS,	5 mm x 7 mm and 3.2 mm x 5 mm 6-pad
Si512/3	XO	Dual	Pin		0.8 ps rms			
Si515	VCXO	Single	Pin		1.0 ps rms	±30 to ±100		
Si516	VCXO	Dual	Pin		1.0 ps rms			
Si530/1	XO	Single	Pin	10 to 945 MHz 970 to 1134 MHz 1213 to 1417 MHz	0.3 ps rms	±20, ±31.5, ±61.5	LVPECL, LVDS, CML, LVCMOS	5 x 7 mm 6-pad
Si532/3	XO	Dual	Pin		0.3 ps rms			5 x 7 mm 6-pad
Si534	XO	Quad	Pin		0.3 ps rms			5 x 7 mm 8-pad
Si550	VCXO	Single	Pin	10 to 945 MHz 970 to 1134 MHz 1213 to 1417 MHz	0.5 ps rms	±12 to ±375	LVPECL, LVDS, CML, LVCMOS	5 x 7 mm 6-pad
Si552	VCXO	Dual	Pin		0.5 ps rms			5 x 7 mm 6-pad
Si554	VCXO	Quad	Pin		0.5 ps rms			5 x 7 mm 8-pad
Si590/1	XO	Single	Pin	10 to 525 MHz	0.5 ps rms	±30, ±50, ±100		5 x 7 mm 6-pad
Si595	VCXO	Single	Pin		0.5 ps rms	±10 to ±370		5 x 7 mm 6-pad

I²C Programmable XO/VCXOs

PART NUMBER	TYPE	FREQUENCY RANGE	TUNING RESOLUTION	JITTER	STABILITY/APR (PPM)	OUTPUT FORMAT	SUPPLY VOLTAGE (V)	PACKAGE
Si514	XO	0.1 to 250 MHz 0.1 to 170 MHz 0.1 to 125 MHz	26 PPT	0.8 ps rms	±30, ±50, ±100	HCSL, LVPECL, LVDS, LVCMOS, Dual LVCMOS,	1.8, 2.5, 3.3 V	5 x 7 mm/ 3.2 x 5 mm 6-pad
Si570	XO	10 to 280 MHz 10 to 810 MHz 10 to 1417 MHz	80 PPT	0.3 ps rms	±31.5, ±62.5	LVPECL, LVDS, CML, LVCMOS	1.8, 2.5, 3.3 V	5 x 7 mm 8-pad
Si571	VCXO			0.5 ps rms	±12 to ±375			5 x 7 mm 8-pad
Si598	XO	10 to 525 MHz 10 to 280 MHz 10 to 160 MHz	28 PPT	0.5 ps rms	±30, ±50, ±100	LVPECL, LVDS, CML, LVCMOS	1.8, 2.5, 3.3 V	5 x 7 mm 8-pad
Si599	VCXO			0.5 ps rms	±10 to ±370			5 x 7 mm 8-pad

Silicon Oscillators

PART NUMBER	TYPE	FREQUENCY	TEMPERATURE STABILITY	TOTAL STABILITY (PPM)	OUTPUT FORMAT	FOOTPRINT
Si500S	XO	0.9 to 200 MHz	± 20 ppm typ	± 150 (0-70 °C) ± 250 (0-85 °C)	LVCMOS, SSTL	3.2 x 5 mm 4-pad
Si500D	XO	0.9 to 200 MHz	± 20 ppm typ	± 150 (0-70 °C) ± 250 (0-85 °C)	LVPECL, LVDS, HCSL, dual output LVCMOS, diff LVCMOS, dual output SSTL, diff SSTL	3.2 x 5 mm 6-pad

Modems

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ISOmodem® Embedded Modems

Globally-compliant, 2-chip embedded modems ranging in speed from 2400 bps to 56 kbps

PART NUMBER	MAX DATA RATE (BPS)	DATA SUPPORT	FAX SUPPORT	LINE SIDE DEVICE OPTIONS	DIGITAL INTERFACE	BOM COMPONENTS	PACKAGE
Si2401	2400	•		Si3010/Si3008	UART	32/25	SOIC16 + SOIC8 or SOIC16
Si2404	2400	•		Si3010/Si3008	UART or parallel	32/25	TSSOP24 or SOIC16 + SOIC8 or SOIC16
Si2415	14400	•		Si3018/Si3008	UART or parallel	32/25	TSSOP24 or SOIC16 + SOIC8 or SOIC16
Si2417	14400		•	Si3018	UART or parallel	32	TSSOP24 + SOIC16
Si2434	33600	•		Si3018/Si3008	UART or parallel	32/25	TSSOP24 or SOIC16 + SOIC8 or SOIC16
Si2435	33600		•	Si3018	UART or parallel	32	TSSOP24 + SOIC16
Si2457	56000	•		Si3018/Si3008	UART or parallel	32/25	TSSOP24 or SOIC16 + SOIC8

Silicon DAAs

Industry-leading high-voltage surge immunity; Ideal for "Voice/FXO" applications, interface compatible with ProSLIC family devices

PART NUMBER	REGION	DIGITAL INTERFACE	LINE VOLTAGE MONITOR	AC TERMINATION SETTINGS	BOM COMPONENTS	PACKAGE
Si3050	Global	PCM/SPI or GCI	•	4/16	32	TSSOP20 +SOIC8 or SOIC16
Si3052	Global	PCI		4	32	TQFP64 + SOIC8 or SOIC16
Si3054	Global	HD Audio/AC-Link		4	32	SOIC16 + SOIC8 or SOIC16
Si3056	Global	DSP serial	•	4/16	32	SOIC16 + SOIC8 or SOIC16
IA3223	Global	Async + Analog Audio	•	4	32	QSOP16 + SOIC8 or MSOP10

Voice

FIND MORE INFORMATION AT www.silabs.com/voice

ProSLIC® Subscriber Line Interface Circuits

PART NUMBER	# OF CHANNELS	HIGH VOLTAGE LINE FEED	VOICE INTERFACE	ON-CHIP DC-DC CONTROLLER	WIDEBAND AUDIO	INTERNAL OR EXTERNAL RINGING	DTMF DECODER	PULSE METERING	INTEGRATED TEST LOAD	FXO SYSTEM SIDE DAA	PACKAGE
Si3210	1	Si3201 (100 V) or Discrete	PCM	•		Internal	•	•			TSSOP38 or QFN38
Si3211	1		PCM			Internal	•	•			TSSOP38 or QFN38
Si3215	1		PCM	•		Internal					TSSOP38 or QFN38
Si3216	1		PCM	•	•	Internal					TSSOP38 or QFN38
Si32171	1	Integrated (110 V)	PCM	•		Internal	•	•	•		QFN42
Si32176	1	Integrated (110 V)	PCM	•	•	Internal			•		QFN42
Si32177	1	Integrated (135 V)	PCM	•	•	Internal			•		QFN42
Si32178	1	Integrated (110 V)	PCM	•	•	Internal	•		•	•	QFN42
Si3220	2	Uses Si3200/2	PCM			Internal	•	•			TQFP64
Si3225	2	Uses Si3200/2	PCM			External	•				TQFP64
Si3226	2	Si3208 (110 V); Si3209 (135 V)	PCM	•		Internal	•				TQFP64
Si3227	2		PCM	•	•	Internal	•				TQFP64
Si3230	1	Uses Si3201	Analog	•	•*	Internal	•	•			TSSOP38 or QFN38
Si3239-ZM	1	Integrated (130 V)	PCM		•*	Internal			•		QFN48
Si3241	4	Si3203 (110 V); Si3206 (135 V); Si3205 (150 V)	PCM			Internal	•	•			TQFP100
Si3245	4	Si3203 (110 V); Si3206 (135 V); Si3205 (150 V)	Analog			External	•	•			TQFP100

*Using external wideband codec

Voice Codec

PART NUMBER	MICROPHONE AMPLIFIER	INPUT MIXER	HEADPHONE DRIVER	HANDSET HYBRID	PACKAGE
Si3000	•	•	•	•	SOIC16

Optical Sensors

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QuickSense™ Infrared Sensors

PART NUMBER	DESCRIPTION	TEMP. RANGE	PACKAGE
Si1102	Proximity Sensor	–40 to 85 °C	3 mm x 3 mm ODFN8
Si1120	PWM Proximity Sensor with Ambient Light Sensor	–40 to 85 °C	3 mm x 3 mm ODFN8
Si1141	I²C Proximity and Ambient Light Sensor with 1 LED Driver	–40 to 85 °C	2 mm x 2 mm QFN10
Si1142	I²C Proximity and Ambient Light Sensor with 2 LED Drivers	–40 to 85 °C	2 mm x 2 mm QFN10
Si1143	I²C Proximity and Ambient Light Sensor with 3 LED Drivers	–40 to 85 °C	2 mm x 2 mm QFN10

Microcontrollers

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QuickSense™ Human Interface MCUs: www.silabs.com/captouchsense

Industry's fastest and most sensitive capacitive touch MCUs and infrared sensors enable simple implementation of sophisticated and responsive touch and touch-less interfaces using QuickSense™ Studio development environment.

PART NUMBER	FLASH (BYTES)	MIPS (PEAK)	RAM (BYTES)	DIG. I/O	COMMUNI-CATIONS	TIMERS (16-BIT)	PWM/ PCA	INTERNAL OSC	ADC1	TOUCH CHANNELS	TEMP SENSOR	VREF	COMP.	PACKAGE	DEV KIT
C8051F702	16 kB	25	512	54	I²C, SPI, UART	4	3	±2%	10-bit	38	•	•	1	QFP64	C8051F700DK
C8051F703	16 kB	25	512	54	I²C, SPI, UART	4	3	±2%		38	•	•	1	QFP64	C8051F700DK
C8051F706	16 kB	25	512	39	I²C, SPI, UART	4	3	±2%	10-bit	27	•	•	1	QFN48/ QFP48	C8051F700DK
C8051F707	16 kB	25	512	39	I²C, SPI, UART	4	3	±2%		27			1	QFN48/ QFP48	C8051F700DK
C8051F716	16 kB	25	512	29	I²C, SPI, UART	4	3	±2%	10-bit	26	•	•		QFN32	C8051F700DK
C8051F717	16 kB	25	512	20	I²C, SPI, UART	4	3	±2%		18				QFN24	C8051F700DK
C8051F800	16 kB	25	512	17	I²C, SPI, UART	3	3	±2%	10-bit	16	•	•	1	QSOP24/ QFP20	C8051F800DK
C8051F801	16 kB	25	512	17	I²C, SPI, UART	3	3	±2%	10-bit	8	•	•	1	QSOP24/ QFP20	C8051F800DK
C8051F802	16 kB	25	512	17	I²C, SPI, UART	3	3	±2%	10-bit		•	•	1	QSOP24/ QFP20	C8051F800DK
C8051F803	16 kB	25	512	13	I²C, SPI, UART	3	3	±2%	10-bit	12	•	•	1	SOIC16	C8051F800DK
C8051F804	16 kB	25	512	13	I²C, SPI, UART	3	3	±2%	10-bit	8	•	•	1	SOIC16	C8051F800DK
C8051F805	16 kB	25	512	13	I²C, SPI, UART	3	3	±2%	10-bit		•	•	1	SOIC16	C8051F800DK
C8051F806	16 kB	25	512	17	I²C, SPI, UART	3	3	±2%		16			1	QSOP24/ QFP20	C8051F800DK
C8051F807	16 kB	25	512	17	I²C, SPI, UART	3	3	±2%		8			1	QSOP24/ QFP20	C8051F800DK
C8051F808	16 kB	25	512	17	I²C, SPI, UART	3	3	±2%					1	QSOP24/ QFP20	C8051F800DK
C8051F809	16 kB	25	512	13	I²C, SPI, UART	3	3	±2%		12			1	SOIC16	C8051F800DK
C8051F810	16 kB	25	512	13	I²C, SPI, UART	3	3	±2%		8			1	SOIC16	C8051F800DK

QuickSense Human Interface MCUs (cont.)

PART NUMBER	FLASH (BYTES)	MIPS (PEAK)	RAM (BYTES)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INTERNAL OSC	ADC1	TOUCH CHANNELS	TEMP SENSOR	VREF	COMP.	PACKAGE	DEV KIT
C8051F811	16 kB	25	512	13	I²C, SPI, UART	3	3	±2%					1	SOIC16	C8051F800DK
C8051F815	16 kB	25	512	13	I²C, SPI, UART	3	3	±2%	10-bit	12	•	•	1	SOIC16	C8051F800DK
C8051F816	16 kB	25	512	13	I²C, SPI, UART	3	3	±2%	10-bit	8	•	•	1	SOIC16	C8051F800DK
C8051F817	16 kB	25	512	13	I²C, SPI, UART	3	3	±2%	10-bit		•	•	1	SOIC16	C8051F800DK
C8051F818	16 kB	25	512	17	I²C, SPI, UART	3	3	±2%		16			1	QSOP24/ QFP20	C8051F800DK
C8051F819	16 kB	25	512	17	I²C, SPI, UART	3	3	±2%		8			1	QSOP24/ QFP20	C8051F800DK
C8051F820	16 kB	25	512	17	I²C, SPI, UART	3	3	±2%					1	QSOP24/ QFP20	C8051F800DK
C8051F821	16 kB	25	512	13	I²C, SPI, UART	3	3	±2%		12			1	SOIC16	C8051F800DK
C8051F822	16 kB	25	512	13	I²C, SPI, UART	3	3	±2%		8			1	SOIC16	C8051F800DK
C8051F823	16 kB	25	512	13	I²C, SPI, UART	3	3	±2%					1	SOIC16	C8051F800DK
C8051F700	15 kB	25	512	54	I²C, SPI, UART	4	3	±2%	10-bit	38	•	•	1	QFP64	C8051F700DK
C8051F701	15 kB	25	512	54	I²C, SPI, UART	4	3	±2%		38			1	QFP64	C8051F700DK
C8051F704	15 kB	25	512	39	I²C, SPI, UART	4	3	±2%	10-bit	27	•	•	1	QFN48/ QFP48	C8051F700DK
C8051F705	15 kB	25	512	39	I²C, SPI, UART	4	3	±2%		27			1	QFN48/ QFP48	C8051F700DK
C8051F708	8 kB	25	512	54	I²C, SPI, UART	4	3	±2%	10-bit	38	•	•	1	QFP64	C8051F700DK
C8051F709	8 kB	25	512	54	I²C, SPI, UART	4	3	±2%		38			1	QFP64	C8051F700DK
C8051F710	8 kB	25	512	54	I²C, SPI, UART	4	3	±2%	10-bit	38	•	•	1	QFP64	C8051F700DK
C8051F711	8 kB	25	512	54	I²C, SPI, UART	4	3	±2%		38			1	QFP64	C8051F700DK
C8051F712	8 kB	25	512	39	I²C, SPI, UART	4	3	±2%	10-bit	27	•	•	1	QFN48/ QFP48	C8051F700DK
C8051F713	8 kB	25	512	39	I²C, SPI, UART	4	3	±2%		27			1	QFN48/ QFP48	C8051F700DK
C8051F714	8 kB	25	512	39	I²C, SPI, UART	4	3	±2%	10-bit	27	•	•	1	QFN48/ QFP48	C8051F700DK
C8051F812	8 kB	25	512	17	I²C, SPI, UART	3	3	±2%	10-bit	16	•	•	1	QSOP24/ QFP20	C8051F800DK
C8051F813	8 kB	25	512	17	I²C, SPI, UART	3	3	±2%	10-bit	8	•	•	1	QSOP24/ QFP20	C8051F800DK
C8051F814	8 kB	25	512	17	I²C, SPI, UART	3	3	±2%	10-bit	—	•	•	1	QSOP24/ QFP20	C8051F800DK
C8051F824	8 kB	25	512	13	I²C, SPI, UART	3	3	±2%	10-bit	12	•	•	1	SOIC16	C8051F800DK
C8051F825	8 kB	25	512	13	I²C, SPI, UART	3	3	±2%	10-bit	8	•	•	1	SOIC16	C8051F800DK
C8051F826	8 kB	25	512	13	I²C, SPI, UART	3	3	±2%	10-bit	—	•	•	1	SOIC16	C8051F800DK
C8051F827	8 kB	25	512	13	I²C, SPI, UART	3	3	±2%	—	12			1	SOIC16	C8051F800DK
C8051F828	8 kB	25	512	13	I²C, SPI, UART	3	3	±2%	—	8			1	SOIC16	C8051F800DK
C8051F829	8 kB	25	512	13	I²C, SPI, UART	3	3	±2%	—	—			1	SOIC16	C8051F800DK
C8051F830	4 kB	25	512	13	I²C, SPI, UART	3	3	±2%	10-bit	12	•	•	1	SOIC16	C8051F800DK
C8051F990	8 kB	25	512	16	I²C, SPI, UART	4	3	±2%	12-bit	13	•	•	1	QFN20	C8051F996DK
C8051F991	8 kB	25	512	16	I²C, SPI, UART	4	3	±2%	—	13	•	•	1	QFN20	C8051F996DK
C8051F996	8 kB	25	512	17	I²C, SPI, UART	4	3	±2%	12-bit	14	•	•	1	QSOP24/ QFP24	C8051F996DK
C8051F997	8 kB	25	512	17	I²C, SPI, UART	4	3	±2%	—	14	•	•	1	QSOP24/ QFP24	C8051F996DK
C8051F831	4 kB	25	512	13	I²C, SPI, UART	3	3	±2%	10-bit	8	•	•	1	SOIC16	C8051F800DK
C8051F832	4 kB	25	512	13	I²C, SPI, UART	3	3	±2%	10-bit	—	•	•	1	SOIC16	C8051F800DK
C8051F833	4 kB	25	512	13	I²C, SPI, UART	3	3	±2%	—	12			1	SOIC16	C8051F800DK
C8051F834	4 kB	25	512	13	I²C, SPI, UART	3	3	±2%	—	8			1	SOIC16	C8051F800DK
C8051F835	4 kB	25	512	13	I²C, SPI, UART	3	3	±2%	—	—			1	SOIC16	C8051F800DK

Small Form Factor MCUs: www.silabs.com/smallmcu

PART NUMBER	FLASH MEMORY	MIPS (PEAK)	RAM (BYTES)	DIG. I/O	COMMS.	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	DAC	TEMP SENSOR	VREF	COMP.	OTHER	PACKAGE	OTP-EPROM VERSION	DEV KIT
C8051F360	32 kB	100	1280	39	I²C, SPI, UART	4	6	±2%	10-bit, 16-ch., 200 ksps	10-bit, 1-ch.	•	•	2	16x16 MAC	TQFP48		C8051F360DK
C8051F361	32 kB	100	1280	27	I²C, SPI, UART	4	6	±2%	10-bit, 16-ch., 200 ksps	10-bit, 1-ch.	•	•	2	16x16 MAC	LQFP32		C8051F360DK
C8051F362	32 kB	100	1280	24	I²C, SPI, UART	4	6	±2%	10-bit, 16-ch., 200 ksps	10-bit, 1-ch.	•	•	2	16x16 MAC	QFN28		C8051F360DK
C8051F363	32 kB	100	1280	39	I²C, SPI, UART	4	6	±2%					2	16x16 MAC	TQFP48		C8051F360DK
C8051F364	32 kB	100	1280	27	I²C, SPI, UART	4	6	±2%					2	16x16 MAC	LQFP32		C8051F360DK
C8051F365	32 kB	100	1280	24	I²C, SPI, UART	4	6	±2%					2	16x16 MAC	QFN28		C8051F360DK
C8051F410	32 kB	50	2304	24	I²C, SPI, UART	4	6	±2%	12-bit, 24-ch., 200 ksps	12-bit, 2-ch.	•	•	2	VREG, smaRTClock	LQFP32		C8051F410DK
C8051F411	32 kB	50	2304	20	I²C, SPI, UART	4	6	±2%	12-bit, 20-ch., 200 ksps	12-bit, 2-ch.	•	•	2	VREG, smaRTClock	QFN28		C8051F410DK
C8051F366	32 kB	50	1280	29	I²C, SPI, UART	4	6	±2%	10-bit, 16-ch., 200 ksps	10-bit, 1-ch.	•	•	2	16x16 MAC	LQFP32		C8051F360DK
C8051F367	32 kB	50	1280	25	I²C, SPI, UART	4	6	±2%	10-bit, 16-ch., 200 ksps	10-bit, 1-ch.	•	•	2	16x16 MAC	QFN28		C8051F360DK
C8051F412	16 kB	50	2304	24	I²C, SPI, UART	4	6	±2%	12-bit, 24-ch., 200 ksps	12-bit, 2-ch.	•	•	2	VREG, smaRTClock	LQFP32		C8051F410DK
C8051F413	16 kB	50	2304	20	I²C, SPI, UART	4	6	±2%	12-bit, 20-ch., 200 ksps	12-bit, 2-ch.	•	•	2	VREG, smaRTClock	QFN28		C8051F410DK
C8051F368	16 kB	50	1280	29	I²C, SPI, UARTI	4	6	±2%	10-bit, 16-ch., 200 ksps	10-bit, 1-ch.	•	•	2	16x16 MAC	LQFP32		C8051F360DK
C8051F369	16 kB	50	1280	25	I²C, SPI, UART	4	6	±2%	10-bit, 16-ch., 200 ksps	10-bit, 1-ch.	•	•	2	16x16 MAC	QFN28		C8051F360DK
C8051F310	16 kB	25	1280	29	I²C, SPI, UART	4	5	±2%	10-bit, 21-ch., 200 ksps		•		2		LQFP32	T610	C8051F310DK
C8051T610	16 kB OTP	25	1280	29	I²C, SPI, UART	4	5	±2%	10-bit, 21-ch., 500 ksps		•		2	VREG	LQFP32	F310	C8051T610DK
C8051F311	16 kB	25	1280	25	I²C, SPI, UART	4	5	±2%	10-bit, 17-ch., 200 ksps		•		2		QFN28	T611	C8051F310DK
C8051T611	16 kB OTP	25	1280	25	I²C, SPI, UART	4	5	±2%	10-bit, 21-ch., 500 ksps		•		2	VREG	QFN28	F311	C8051T610DK
C8051F316	16 kB	25	1280	21	I²C, SPI, UART	4	5	±2%	10-bit, 13-ch., 200 ksps		•		2		QFN24	T616	C8051F310DK
C8051T616	16 kB OTP	25	1280	21	I²C, SPI, UART	4	5	±2%	10-bit, 17-ch., 500 ksps		•		2	VREG	QFN24	F316	C8051T610DK
C8051F317	16 kB	25	1280	21	I²C, SPI, UART	4	5	±2%					2		QFN24	T617	C8051F310DK
C8051T617	16 kB OTP	25	1280	21	I²C, SPI, UART	4	5	±2%					2	VREG	QFN24	F317	C8051T610DK
C8051F336	16 kB	25	768	17	I²C, SPI, UART	4	3	±2%	10-bit, 16-ch., 200 ksps	10-bit, 1-ch.	•	•	1	LFO	QFN20		C8051F336DK
C8051F337	16 kB	25	768	17	I²C, SPI, UART	4	3	±2%					1	LFO	QFN20		C8051F336DK
C8051F338	16 kB	25	768	21	I²C, SPI, UART	4	3	±2%	10-bit, 16-ch., 200 ksps	10-bit, 1-ch.	•	•	1	LFO	QFN24		C8051F336DK
C8051F339	16 kB	25	768	21	I²C, SPI, UART	4	3	±2%					1	LFO	QFN24		C8051F336DK
C8051F350	8 kB	50	768	17	I²C, SPI, UART	4	3	±2%	24-bit, 8-ch., 1 ksps	8-bit, 2-ch.	•	•	1		LQFP32		C8051F350DK
C8051F351	8 kB	50	768	17	I²C, SPI, UART	4	3	±2%	24-bit, 8-ch., 1 ksps	8-bit, 2-ch.	•	•	1		QFN28		C8051F350DK
C8051F352	8 kB	50	768	17	I²C, SPI, UART	4	3	±2%	16-bit, 8-ch., 1 ksps	8-bit, 2-ch.	•	•	1		LQFP32		C8051F350DK
C8051F353	8 kB	50	768	17	I²C, SPI, UART	4	3	±2%	16-bit, 8-ch., 1 ksps	8-bit, 2-ch.	•	•	1		QFN28		C8051F350DK
C8051F206	8 kB	25	1280	32	SPI, UART	3		±20%	12-bit, 32-ch., 100 ksps				2		TQFP48		C8051F206DK
C8051F226	8 kB	25	1280	32	SPI, UART	3		±20%	8-bit, 32-ch., 100 ksps				2		TQFP48		C8051F226DK
C8051F236	8 kB	25	1280	32	SPI, UART	3		±20%					2		TQFP48		C8051F226DK
C8051F312	8 kB	25	1280	29	I²C, SPI, UART	4	5	±2%	10-bit, 21-ch., 200 ksps		•		2		LQFP32	T612	C8051F310DK
C8051T612	8 kB OTP	25	1280	29	I²C, SPI, UART	4	5	±2%	10-bit, 21-ch., 500 ksps		•		2	VREG	LQFP32	F312	C8051T610DK
C8051F313	8 kB	25	1280	25	I²C, SPI, UART	4	5	±2%	10-bit, 17-ch., 200 ksps		•		2		QFN28	T613	C8051F310DK
C8051T613	8 kB OTP	25	1280	25	I²C, SPI, UART	4	5	±2%	10-bit, 21-ch., 500 ksps		•		2	VREG	QFN28	F313	C8051T610DK
C8051F314	8 kB	25	1280	29	I²C, SPI, UART	4	5	±2%					2		LQFP32	T614	C8051F310DK
C8051T614	8 kB OTP	25	1280	29	I²C, SPI, UART	4	5	±2%					2	VREG	LQFP32	F314	C8051T610DK
C8051F315	8 kB	25	1280	25	I²C, SPI, UART	4	5	±2%					2		QFN28	T615	C8051F310DK
C8051T615	8 kB OTP	25	1280	25	I²C, SPI, UART	4	5	±2%					2	VREG	QFN28	F315	C8051T610DK
C8051F330	8 kB	25	768	17	I²C, SPI, UART	4	3	±2%	10-bit, 16-ch., 200 ksps	10-bit, 1-ch.	•	•	1	LFO	QFN20	T630	C8051F330DK
C8051T630	8 kB OTP	25	768	17	I²C, SPI, UART	4	3	±2%	10-bit, 16-ch., 500 ksps	10-bit, 1-ch.	•	•	1	VREG, LFO	QFN20	F330	C8051T630DK
C8051F331	8 kB	25	768	17	I²C, SPI, UART	4	3	±2%					1	LFO	QFN20	T631	C8051F330DK
C8051T631	8 kB OTP	25	768	17	I²C, SPI, UART	4	3	±2%					1	VREG, LFO	QFN20	F331	C8051T630DK

Small Form Factor MCUs (cont.)

PART NUMBER	FLASH MEMORY	MIPS (PEAK)	RAM (BYTES)	DIG. I/O	COMMS.	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	DAC	TEMP SENSOR	VREF	COMP.	OTHER	PACKAGE	OTP-EPROM VERSION	DEV KIT
C8051F220	8 kB	25	256	32	SPI, UART	3		±20%	8-bit, 32-ch., 100 ksps				2		TQFP48		C8051F226DK
C8051F221	8 kB	25	256	22	SPI, UART	3		±20%	8-bit, 32-ch., 100 ksps				2		LQFP32		C8051F226DK
C8051F230	8 kB	25	256	32	SPI, UART	3		±20%					2		TQFP48		C8051F226DK
C8051F231	8 kB	25	256	22	SPI, UART	3		±20%					2		LQFP32		C8051F226DK
C8051F300	8 kB	25	256	8	I²C, UART	3	3	±2%	8-bit, 8-ch., 500 ksps		•		1		QFN11/ SOIC14	T600	C8051F300DK
C8051T600	8 kB OTP	25	256	8	I²C , UART	3	3	±2%	10-bit, 8-ch., 500 ksps		•		1	VREG	QFN11/ SOIC14	F300	C8051T600DK
C8051F301	8 kB	25	256	8	I²C, UART	3	3	±2%					1		QFN11/ SOIC14	T601	C8051F300DK
C8051T601	8 kB OTP	25	256	8	I²C , UART	3	3	±2%					1	VREG	QFN11/ SOIC14	F301	C8051T600DK
C8051F302	8 kB	25	256	8	I²C, UART	3	3	±20%	8-bit, 8-ch., 500 ksps		•		1		QFN11/ SOIC14	T600	C8051F300DK
C8051F303	8 kB	25	256	8	I²C, UART	3	3	±20%					1		QFN11/ SOIC14	T601	C8051F300DK
C8051F332	4 kB	25	768	17	I²C, SPI, UART	4	3	±2%	10-bit, 16-ch., 200 ksps		•	•	1	LFO	QFN20	T632	C8051F330DK
C8051T632	4 kB OTP	25	768	17	I²C, SPI, UART	4	3	±2%	10-bit, 16-ch., 500 ksps	10-bit, 1-ch.	•	•	1	VREG, LFO	QFN20	F330	C8051T630DK
C8051F333	4 kB	25	768	17	I²C, SPI, UART	4	3	±2%					1	LFO	QFN20	T633	C8051F330DK
C8051T633	4 kB OTP	25	768	17	I²C, SPI, UART	4	3	±2%					1	VREG, LFO	QFN20	F331	C8051T630DK
C8051T602	4 kB OTP	25	256	8	I²C , UART	3	3	±2%	10-bit, 8-ch., 500 ksps		•		1	VREG	QFN11/ SOIC14	F300	C8051T600DK
C8051T603	4 kB OTP	25	256	8	I²C , UART	3	3	±2%					1	VREG	QFN11/ SOIC14	F301	C8051T600DK
C8051F304	4 kB	25	256	8	I²C, UART	3	3	±20%					1		QFN11/ SOIC14	T603	C8051F300DK
C8051F334	2 kB	25	768	17	I²C, SPI, UART	4	3	±2%	10-bit, 16-ch., 200 ksps		•	•	1	LFO	QFN20	T634	C8051F330DK
C8051T634	2 kB OTP	25	768	17	I²C, SPI, UART	4	3	±2%	10-bit, 16-ch., 500 ksps	10-bit, 1-ch.	•	•	1	VREG, LFO	QFN20	F330	C8051T630DK
C8051F335	2 kB	25	768	17	I²C, SPI, UART	4	3	±2%					1	LFO	QFN20	T635	C8051F330DK
C8051T635	2 kB OTP	25	768	17	I²C, SPI, UART	4	3	±2%					1	VREG, LFO	QFN20	F331	C8051T630DK
C8051T604	2 kB OTP	25	256	8	I²C , UART	3	3	±2%	10-bit, 8-ch., 500 ksps		•		1	VREG	QFN11/ SOIC14	F300	C8051T600DK
C8051F305	2 kB	25	256	8	I²C, UART	3	3	±20%					1		QFN11/ SOIC14	T605	C8051F300DK
C8051T605	2 kB OTP	25	256	8	I²C , UART	3	3	±2%					1	VREG	QFN11/ SOIC14	F301	C8051T600DK
C8051T606	1.5 kB OTP	25	128	6	I²C , UART	3	3	±2%					1	VREG	QFN10/ QFN11/ MSOP11	F301	C8051T606DK

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PART NUMBER	FLASH MEMORY	MIPS (PEAK)	RAM (BYTES)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INTERNAL OSC	ADC	TEMP SENSOR	VREF	COMP.	OTHER	PACKAGE	DEV KIT
C8051F930	64 kB	25	4352	24	EMIF, I²C, 2 x SPI, UART	4	6	±2%	10-bit, 23-ch., 300 ksps	•	•	2	170 µA/MHz active 50 nA sleep	QFN32/ LQFP32	C8051F930DK
C8051F931	64 kB	25	4352	16	I²C, 2 x SPI, UART	4	6	±2%	10-bit, 15-ch., 300 ksps	•	•	2	170 µA/MHz active 50 nA sleep	QFN24	C8051F930DK
C8051F920	32 kB	25	4352	24	EMIF, I²C, 2 x SPI, UART	4	6	±2%	10-bit, 23-ch., 300 ksps	•	•	2	170 µA/MHz active 50 nA sleep	QFN32/ LQFP32	C8051F930DK
C8051F921	32 kB	25	4352	16	I²C, 2 x SPI, UART	4	6	±2%	10-bit, 15-ch., 300 ksps	•	•	2	170 µA/MHz active 50 nA sleep	QFN24	C8051F930DK
C8051F911	16 kB	25	768	16	I²C, 2 x SPI, UART	4	6	±2%	10-bit, 15-ch., 300 ksps	•	•	2	160 µA/MHz active 50 nA sleep	QFN24/ SOIC24	C8051F912DK
C8051F912	16 kB	25	768	16	I²C, 2 x SPI, UART	4	6	±2%	12-bit, 15-ch., 75 ksps	•	•	2	160 µA/MHz active 10 nA sleep	QFN24/ SOIC24	C8051F912DK
C8051F901	8 kB	25	768	16	I²C, 2 x SPI, UART	4	6	±2%	10-bit, 15-ch., 300 ksps	•	•	2	160 µA/MHz active 50 nA sleep	QFN24/ SOIC24	C8051F912DK
C8051F902	8 kB	25	768	16	I²C, 2 x SPI, UART	4	6	±2%	12-bit, 15-ch., 75 ksps	•	•	2	160 µA/MHz active 10 nA sleep	QFN24/ SOIC24	C8051F912DK
C8051F980	8 kB	25	512	16	I²C, SPI, UART	4	3	±2%	12-bit, 9-ch., 75 ksps	•	•	1	160 µA/MHz active 10 nA sleep	QFN20	C8051F996DK
C8051F981	8 kB	25	512	16	I²C, SPI, UART	4	3	±2%	12-bit, 9-ch., 75 ksps	•	•	1	150 µA/MHz active 10 nA sleep	QFN20	C8051F996DK
C8051F986	8 kB	25	512	17	I²C, SPI, UART	4	3	±2%	12-bit, 9-ch., 75 ksps	•	•	1	150 µA/MHz active 10 nA sleep	QFN24/ QSOP24	C8051F996DK
C8051F987	8 kB	25	512	17	I²C, SPI, UART	4	3	±2%	12-bit, 9-ch., 75 ksps	•	•	1	150 µA/MHz active 10 nA sleep	QFN24/ QSOP24	C8051F996DK
C8051F982	4 kB	25	512	16	I²C, SPI, UART	4	3	±2%	10-bit, 9-ch., 300 ksps	•	•	1	150 µA/MHz active 10 nA sleep	QFN20	C8051F996DK
C8051F983	4 kB	25	512	16	I²C, SPI, UART	4	3	±2%	10-bit, 9-ch., 300 ksps	•	•	1	150 µA/MHz active 10 nA sleep	QFN20	C8051F996DK
C8051F988	4 kB	25	512	17	I²C, SPI, UART	4	3	±2%	10-bit, 9-ch., 300 ksps	•	•	1	150 µA/MHz active 10 nA sleep	QFN24/ QSOP24	C8051F996DK
C8051F989	4 kB	25	512	17	I²C, SPI, UART	4	3	±2%	10-bit, 9-ch., 300 ksps	•	•	1	150 µA/MHz active 10 nA sleep	QFN24/ QSOP24	C8051F996DK
C8051F985	2 kB	25	512	16	I²C, SPI, UART	4	3	±2%	10-bit, 9-ch., 300 ksps	•	•	1	150 µA/MHz active 10 nA sleep	QFN20	C8051F996DK

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All products are AEC-Q100 qualified.

PART NUMBER	FLASH MEMORY	MIPS (PEAK)	RAM (BYTES)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/PCA	INTERNAL OSC	ADC	TEMP SENSOR	VREF	COMP.	OTHER	PACKAGE	DEV KIT
C8051F580	128 kB	50	8448	40	CAN 2.0, I²C LIN 2.1, SPI, 2 x UART	6	2x6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	3	-40 to 125 °C, Volt. Reg.	QFP48/ QFN48	C8051F580DK
C8051F581	128 kB	50	8448	40	I²C, SPI, 2 x UART	6	2x6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	3	-40 to 125 °C, Volt. Reg.	QFP48/ QFN48	C8051F580DK
C8051F582	128 kB	50	8448	25	CAN 2.0, I²C LIN 2.1, SPI, 2 x UART	6	2x6	±0.5%	12-bit, 25-ch., 200 ksps	•	•	3	-40 to 125 °C, Volt. Reg.	QFP32/ QFN32	C8051F580DK
C8051F583	128 kB	50	8448	25	I²C, SPI, 2 x UART	6	2x6	±0.5%	12-bit, 25-ch., 200 ksps	•	•	3	-40 to 125 °C, Volt. Reg.	QFP32/ QFN32	C8051F580DK
C8051F588	128 kB	50	8448	33	CAN 2.0, I²C LIN 2.1, SPI, 2 x UART	6	2x6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	3	-40 to 125 °C, Volt. Reg.	QFN40	C8051F580DK
C8051F589	128 kB	50	8448	33	I²C, SPI, 2 x UART	6	2x6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	3	-40 to 125 °C, Volt. Reg.	QFN40	C8051F580DK
C8051F584	96 kB	50	8448	40	CAN 2.0, I²C LIN 2.1, SPI, 2 x UART	6	2x6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	3	-40 to 125 °C, Volt. Reg.	QFP48/ QFN48	C8051F580DK
C8051F585	96 kB	50	8448	40	I²C, SPI, 2 x UART	6	2x6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	3	-40 to 125 °C, Volt. Reg.	QFP48/ QFN48	C8051F580DK
C8051F586	96 kB	50	8448	25	CAN 2.0, I²C LIN 2.1, SPI, 2 x UART	6	2x6	±0.5%	12-bit, 25-ch., 200 ksps	•	•	3	-40 to 125 °C, Volt. Reg.	QFP32/ QFN32	C8051F580DK
C8051F587	96 kB	50	8448	25	I²C, SPI, 2 x UART	6	2x6	±0.5%	12-bit, 25-ch., 200 ksps	•	•	3	-40 to 125 °C, Volt. Reg.	QFP32/ QFN32	C8051F580DK
C8051F590	96 kB	50	8448	33	CAN 2.0, I²C LIN 2.1, SPI, 2 x UART	6	2x6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	3	-40 to 125 °C, Volt. Reg.	QFN40	C8051F580DK
C8051F591	96 kB	50	8448	33	I²C, SPI, 2 x UART	6	2x6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	3	-40 to 125 °C, Volt. Reg.	QFN40	C8051F580DK
C8051F500	64 kB	50	4352	40	CAN 2.0, I²C LIN 2.1, SPI, UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	2	-40 to 125 °C	QFP48/ QFN48	C8051F500DK
C8051F501	64 kB	50	4352	40	I²C, SPI, UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	2	-40 to 125 °C	QFP48/ QFN48	C8051F500DK
C8051F502	64 kB	50	4352	25	CAN 2.0, I²C LIN 2.1, SPI, UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	•	•	2	-40 to 125 °C	QFP32/ QFN32	C8051F500DK
C8051F503	64 kB	50	4352	25	I²C, SPI, UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	•	•	2	-40 to 125 °C	QFP32/ QFN32	C8051F500DK
C8051F508	64 kB	50	4352	33	CAN 2.0, I²C, LIN 2.1, SPI, UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	2	-40 to 125 °C, Volt. Reg.	QFN40	C8051F500DK
C8051F509	64 kB	50	4352	33	I²C, SPI, UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	2	-40 to 125 °C, Volt. Reg.	QFN40	C8051F500DK
C8051F504	32 kB	50	4352	40	CAN 2.0, I²C, LIN 2.1, SPI, UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	2	-40 to 125 °C	QFP48/ QFN48	C8051F500DK
C8051F505	32 kB	50	4352	40	I²C, SPI, UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	2	-40 to 125 °C	QFP48/ QFN48	C8051F500DK
C8051F506	32 kB	50	4352	25	CAN 2.0, I²C, LIN 2.1, SPI, UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	•	•	2	-40 to 125 °C	QFP32/ QFN32	C8051F500DK
C8051F507	32 kB	50	4352	25	I²C, SPI, UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	•	•	2	-40 to 125 °C	QFP32/ QFN32	C8051F500DK
C8051F510	32 kB	50	4352	33	CAN 2.0, I²C, LIN 2.1, SPI, UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	2	-40 to 125 °C, Volt. Reg.	QFN40	C8051F500DK
C8051F511	32 kB	50	4352	33	I²C, SPI, UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	2	-40 to 125 °C, Volt. Reg.	QFN40	C8051F500DK
C8051F550	32 kB	50	2304	18	CAN 2.0, I²C, LIN 2.1, SPI, UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	•	•	2	-40 to 125 °C, Volt. Reg.	QFN24	C8051F560DK
C8051F551	32 kB	50	2304	18	CAN 2.0, I²C, SPI, UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	•	•	2	-40 to 125 °C, Volt. Reg.	QFN24	C8051F560DK
C8051F552	32 kB	50	2304	18	I²C, LIN 2.1, SPI, UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	•	•	2	-40 to 125 °C, Volt. Reg.	QFN24	C8051F560DK
C8051F553	32 kB	50	2304	18	I²C, SPI, UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	•	•	2	-40 to 125 °C, Volt. Reg.	QFN24	C8051F560DK
C8051F560	32 kB	50	2304	25	CAN 2.0, I²C, LIN 2.1, SPI, UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	•	•	2	-40 to 125 °C, Volt. Reg.	QFN32/ QFP32	C8051F560DK
C8051F561	32 kB	50	2304	25	CAN 2.0, I²C, SPI, UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	•	•	2	-40 to 125 °C, Volt. Reg.	QFN32/ QFP32	C8051F560DK
C8051F562	32 kB	50	2304	25	I²C, LIN 2.1, SPI, UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	•	•	2	-40 to 125 °C, Volt. Reg.	QFN32/ QFP32	C8051F560DK
C8051F563	32 kB	50	2304	25	I²C, SPI, UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	•	•	2	-40 to 125 °C, Volt. Reg.	QFN32/ QFP32	C8051F560DK
C8051F568	32 kB	50	2304	33	CAN 2.0, I²C, LIN 2.1, SPI, UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	2	-40 to 125 °C, Volt. Reg.	QFN40	C8051F560DK
C8051F569	32 kB	50	2304	33	CAN 2.0, I²C, SPI, UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	2	-40 to 125 °C, Volt. Reg.	QFN40	C8051F560DK
C8051F570	32 kB	50	2304	33	I²C, LIN 2.1, SPI, UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	2	-40 to 125 °C, Volt. Reg.	QFN40	C8051F560DK
C8051F571	32 kB	50	2304	33	I²C, SPI, UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	2	-40 to 125 °C, Volt. Reg.	QFN40	C8051F560DK
C8051F554	16 kB	50	2304	18	CAN 2.0, I²C, LIN 2.1, SPI, UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	•	•	2	-40 to 125 °C, Volt. Reg.	QFN24	C8051F560DK
C8051F555	16 kB	50	2304	18	CAN 2.0, I²C, SPI, UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	•	•	2	-40 to 125 °C, Volt. Reg.	QFN24	C8051F560DK
C8051F556	16 kB	50	2304	18	I²C, LIN 2.1, SPI, UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	•	•	2	-40 to 125 °C, Volt. Reg.	QFN24	C8051F560DK
C8051F557	16 kB	50	2304	18	I²C, SPI, UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	•	•	2	-40 to 125 °C, Volt. Reg.	QFN24	C8051F560DK
C8051F564	16 kB	50	2304	25	CAN 2.0, I²C, LIN 2.1, SPI, UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	•	•	2	-40 to 125 °C, Volt. Reg.	QFN32/ QFP32	C8051F560DK
C8051F565	16 kB	50	2304	25	CAN 2.0, I²C, SPI, UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	•	•	2	-40 to 125 °C, Volt. Reg.	QFN32/ QFP32	C8051F560DK

Industrial and Automotive Qualified MCUs (cont.)

PART NUMBER	FLASH MEMORY	MIPS (PEAK)	RAM (BYTES)	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/PCA	INTERNAL OSC	ADC	TEMP SENSOR	VREF	COMP.	OTHER	PACKAGE	DEV KIT
C8051F566	16 kB	50	2304	25	I²C, LIN 2.1, SPI, UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	•	•	2	–40 to 125 °C, Volt. Reg.	QFN24	C8051F560DK
C8051F567	16 kB	50	2304	25	I²C, SPI, UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	•	•	2	–40 to 125 °C, Volt. Reg.	QFN24	C8051F560DK
C8051F572	16 kB	50	2304	33	CAN 2.0, I²C, LIN 2.1, SPI, UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	2	–40 to 125 °C, Volt. Reg.	QFN40	C8051F560DK
C8051F573	16 kB	50	2304	33	CAN 2.0, I²C, SPI, UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	2	–40 to 125 °C, Volt. Reg.	QFN40	C8051F560DK
C8051F574	16 kB	50	2304	33	I²C, LIN 2.1, SPI, UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	2	–40 to 125 °C, Volt. Reg.	QFN40	C8051F560DK
C8051F575	16 kB	50	2304	33	I²C, SPI, UART	4	6	±0.5%	12-bit, 32-ch., 200 ksps	•	•	2	–40 to 125 °C, Volt. Reg.	QFN40	C8051F560DK
C8051F540	16 kB	50	1280	25	I²C, LIN 2.1, SPI, UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	•	•	2	–40 to 125 °C, Volt. Reg.	QFN32/ QFP32	C8051F540DK
C8051F541	16 kB	50	1280	25	I²C, SPI, UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	•	•	2	–40 to 125 °C, Volt. Reg.	QFN32/ QFP32	C8051F540DK
C8051F542	16 kB	50	1280	18	I²C, LIN 2.1, SPI, UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	•	•	2	–40 to 125 °C, Volt. Reg.	QFN24	C8051F540DK
C8051F543	16 kB	50	1280	18	I²C, SPI, UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	•	•	2	–40 to 125 °C, Volt. Reg.	QFN24	C8051F540DK
C8051F544	8 kB	50	1280	25	I²C, LIN 2.1, SPI, UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	•	•	2	–40 to 125 °C, Volt. Reg.	QFN32/ QFP32	C8051F540DK
C8051F545	8 kB	50	1280	25	I²C, SPI, UART	4	6	±0.5%	12-bit, 25-ch., 200 ksps	•	•	2	–40 to 125 °C, Volt. Reg.	QFN32/ QFP32	C8051F540DK
C8051F546	8 kB	50	1280	18	I²C, LIN 2.1, SPI, UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	•	•	2	–40 to 125 °C, Volt. Reg.	QFN24	C8051F540DK
C8051F547	8 kB	50	1280	18	I²C, SPI, UART	4	6	±0.5%	12-bit, 18-ch., 200 ksps	•	•	2	–40 to 125 °C, Volt. Reg.	QFN24	C8051F540DK
C8051F520A	8 kB	25	256	6	LIN 2.1, SPI, UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps	•	•	1	–40 to 125 °C	DFN10	C8051F530DK
C8051F521A	8 kB	25	256	6	SPI, UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps	•	•	1	–40 to 125 °C	DFN10	C8051F530DK
C8051F530A	8 kB	25	256	16	LIN 2.1, SPI, UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	•	•	1	–40 to 125 °C	QFN20/ TSSOP20	C8051F530DK
C8051F531A	8 kB	25	256	16	SPI, UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	•	•	1	–40 to 125 °C	QFN20/ TSSOP20	C8051F530DK
C8051F523A	4 kB	25	256	6	LIN 2.1, SPI, UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps	•	•	1	–40 to 125 °C	DFN10	C8051F530DK
C8051F524A	4 kB	25	256	6	SPI, UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps	•	•	1	–40 to 125 °C	DFN10	C8051F530DK
C8051F533A	4 kB	25	256	16	LIN 2.1, SPI, UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	•	•	1	–40 to 125 °C	QFN20/ TSSOP20	C8051F530DK
C8051F534A	4 kB	25	256	16	SPI, UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	•	•	1	–40 to 125 °C	QFN20/ TSSOP20	C8051F530DK
C8051F526A	2 kB	25	256	6	LIN 2.1, SPI, UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps	•	•	1	–40 to 125 °C	DFN10	C8051F530DK
C8051F527A	2 kB	25	256	6	SPI, UART	3	3	±0.5%	12-bit, 6-ch., 200 ksps	•	•	1	–40 to 125 °C	DFN10	C8051F530DK
C8051F536A	2 kB	25	256	16	LIN 2.1, SPI, UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	•	•	1	–40 to 125 °C	QFN20/ TSSOP20	C8051F530DK
C8051F537A	2 kB	25	256	16	SPI, UART	3	3	±0.5%	12-bit, 16-ch., 200 ksps	•	•	1	–40 to 125 °C	QFN20/ TSSOP20	C8051F530DK

Wireless MCUs: www.silabs.com/wirelessmcu

PART NUMBER	FLASH MEMORY	MIPS (PEAK)	RAM (BYTES)	DIG. I/O	COMMS.	FSK/GFSK (KBPS)	OOK (KBPS)	OUTPUT POWER (DBM)	2/4.8 KBPS SENSITIVITY	TX CURRENT (dBm) (mA) +11	+13	20	TIMERS (16-BIT)	PWM/ PCA	INT. OSC	ADC	COMP.	OTHER	PACKAGE	DEV KIT
Si1000	64 kB	25	4352	22	I²C, SPI, UART	256	40	+1 to +20	-121/-110	35		85	4	6	±2%	10-bit, 18-ch., 300 ksps	2	Temp Sensor, RTC, CRC, VREF	QFN42	Si1000DK
Si1002	64 kB	25	4352	22	I²C, SPI, UART	256	40	-8 to +13	-121/-110		30		4	6	±2%	10-bit, 18-ch., 300 ksps	2	Temp Sensor, RTC, CRC, VREF	QFN42	Si1000DK
Si1004	64 kB	25	4352	19	I²C, SPI, UART	256	40	-8 to +13	-121/-110		30		4	6	±2%	10-bit, 15-ch., 300 ksps	2	Temp Sensor, VREF, RTC, CRC, DC-DC	QFN42	Si1000DK
Si1001	32 kB	25	4352	22	I²C, SPI, UART	256	40	+1 to +20	-121/-110	35		85	4	6	±2%	10-bit, 18-ch., 300 ksps	2	Temp Sensor, RTC, CRC, VREF	QFN42	Si1000DK
Si1003	32 kB	25	4352	22	I²C, SPI, UART	256	40	-8 to +13	-121/-110		30		4	6	±2%	10-bit, 18-ch., 300 ksps	2	Temp Sensor, RTC, CRC, VREF	QFN42	Si1000DK
Si1005	32 kB	25	4352	19	I²C, SPI, UART	256	40	-8 to +13	-121/-110		30		4	6	±2%	10-bit, 15-ch., 300 ksps	2	Temp Sensor, VREF, RTC, CRC, DC-DC	QFN42	Si1000DK
Si1010	16 kB	25	768	15	I²C, SPI, UART	256	40	+1 to +20	-121/-110	35		85	4	6	±2%	12-bit, 11-ch., 75 ksps	2	Temp Sensor, RTC, CRC, VREF	QFN42	Si1010DK
Si1012	16 kB	25	768	15	I²C, SPI, UART	256	40	-8 to +13	-121/-110		30		4	6	±2%	12-bit, 11-ch., 75 ksps	2	Temp Sensor, RTC, CRC, VREF	QFN42	Si1010DK
Si1014	16 kB	25	768	15	I²C, SPI, UART	256	40	-8 to +13	-121/-110		30		4	6	±2%	12-bit, 11-ch., 75 ksps	2	Temp Sensor, VREF, RTC, CRC, DC-DC	QFN42	Si1010DK
Si1011	8 kB	25	768	15	I²C, SPI, UART	256	40	+1 to +20	-121/-110	35		85	4	6	±2%	12-bit, 11-ch., 75 ksps	2	Temp Sensor, RTC, CRC, VREF	QFN42	Si1010DK
Si1013	8 kB	25	768	15	I²C, SPI, UART	256	40	-8 to +13	-121/-110		30		4	6	±2%	12-bit, 11-ch., 75 ksps	2	Temp Sensor, RTC, CRC, VREF	QFN42	Si1010DK
Si1015	8 kB	25	768	15	I²C, SPI, UART	256	40	-8 to +13	-121/-110		30		4	6	±2%	12-bit, 11-ch., 75 ksps	2	Temp Sensor, VREF, RTC, CRC, DC-DC	QFN42	Si1010DK

High-Performance Analog-Intensive MCUs: www.silabs.com/highperformancemcu

PART NUMBER	FLASH (BYTES)	MIPS (PEAK)	RAM (BYTES)	EXT MEM I/F	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INTERNAL OSC	ADC1	ADC2	DAC	TEMP SENSOR	VREF	COMP.	OTHER	PACKAGE	DEV KIT
C8051F120	128 kB	100	8448	•	64	I²C, SPI, 2 x UART	5	6	±2%	12-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	2	16x16 MAC	TQFP100	C8051F120DK
C8051F121	128 kB	100	8448	•	32	I²C, SPI,2 x UART	5	6	±2%	12-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	2	16x16 MAC	TQFP64	C8051F120DK
C8051F122	128 kB	100	8448	•	64	I²C, SPI, 2 x UART	5	6	±2%	10-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	2	16x16 MAC	TQFP100	C8051F120DK
C8051F123	128 kB	100	8448	•	32	I²C, SPI, 2 x UART	5	6	±2%	10-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	2	16x16 MAC	TQFP64	C8051F120DK
C8051F130	128 kB	100	8448	•	64	I²C, SPI, 2 x UART	5	6	±2%	10-bit, 8-ch., 100 ksps			•	•	2	16x16 MAC	TQFP100	C8051F120DK
C8051F131	128 kB	100	8448	•	32	I²C, SPI, 2 x UART	5	6	±2%	10-bit, 8-ch., 100 ksps			•	•	2	16x16 MAC	TQFP64	C8051F120DK
C8051F124	128 kB	50	8448	•	64	I²C, SPI, 2 x UART	5	6	±2%	12-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	2		TQFP100	C8051F120DK
C8051F125	128 kB	50	8448	•	32	I²C, SPI, 2 x UART	5	6	±2%	12-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	2		TQFP64	C8051F120DK
C8051F126	128 kB	50	8448	•	64	I²C, SPI, 2 x UART	5	6	±2%	10-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	2		TQFP100	C8051F120DK
C8051F127	128 kB	50	8448	•	32	I²C, SPI, 2 x UART	5	6	±2%	10-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	2		TQFP64	C8051F120DK
C8051F132	64kB	100	8448	•	64	I²C, SPI, 2 x UART	5	6	±2%	10-bit, 8-ch., 100 ksps			•	•	2	16x16 MAC	TQFP100	C8051F120DK
C8051F133	64kB	100	8448	•	32	I²C, SPI, 2 x UART	5	6	±2%	10-bit, 8-ch., 100 ksps			•	•	2	16x16 MAC	TQFP64	C8051F120DK
C8051F020	64 kB	25	4352	•	64	I²C, SPI, 2 x UART	5	5	±20%	12-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	2		TQFP100	C8051F020DK
C8051F021	64 kB	25	4352	•	32	I²C, SPI, 2 x UART	5	5	±20%	12-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	2		TQFP64	C8051F020DK
C8051F022	64 kB	25	4352	•	64	I²C, SPI, 2 x UART	5	5	±20%	10-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	2		TQFP100	C8051F020DK
C8051F023	64 kB	25	4352	•	32	I²C, SPI, 2 x UART	5	5	±20%	10-bit, 8-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	2		TQFP64	C8051F020DK
C8051F040	64 kB	25	4352	•	64	CAN2.0B, I²C, SPI, 2 x UART	5	6	±2%	12-bit, 13-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	3	±60 V PGA	TQFP100	C8051F040DK
C8051F041	64 kB	25	4352	•	32	CAN2.0B, I²C, SPI, 2 x UART	5	6	±2%	12-bit, 13-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	3	±60 V PGA	TQFP64	C8051F040DK
C8051F042	64 kB	25	4352	•	64	CAN2.0B, I²C, SPI, 2 x UART	5	6	±2%	10-bit, 13-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	3	±60 V PGA	TQFP100	C8051F040DK
C8051F043	64 kB	25	4352	•	32	CAN2.0B, I²C, SPI, 2 x UART	5	6	±2%	10-bit, 13-ch., 100 ksps	8-bit, 8-ch., 500 ksps	12-bit, 2-ch.	•	•	3	±60 V PGA	TQFP64	C8051F040DK
C8051F044	64 kB	25	4352	•	64	CAN2.0B, I²C, SPI, 2 x UART	5	6	±2%	10-bit, 13-ch., 100 ksps			•	•	3	±60 V PGA	TQFP100	C8051F040DK
C8051F045	64 kB	25	4352	•	32	CAN2.0B, I²C, SPI, 2 x UART	5	6	±2%	10-bit, 13-ch., 100 ksps			•	•	3	±60 V PGA	TQFP64	C8051F040DK
C8051F060	64 kB	25	4352	•	59	CAN2.0B, I²C, SPI, 2 x UART	5	6	±2%	16-bit, 1-ch., 1 Msps	16-bit, 1-ch., 1 Msps	12-bit, 2-ch.	•	•	3	10-bit, 8-ch., 200 ksps, DMA	TQFP100	C8051F060DK
C8051F061	64 kB	25	4352		24	CAN2.0B, I²C, SPI, 2 x UART	5	6	±2%	16-bit, 1-ch., 1 Msps	16-bit, 1-ch., 1 Msps	12-bit, 2-ch.	•	•	3	10-bit, 8-ch., 200 ksps, DMA	TQFP64	C8051F060DK
C8051F062	64 kB	25	4352	•	59	CAN2.0B, I²C, SPI, 2 x UART	5	6	±2%	16-bit, 1-ch., 1 Msps	16-bit, 1-ch., 1 Msps	12-bit, 2-ch.	•	•	3	10-bit, 8-ch., 200 ksps, DMA	TQFP100	C8051F060DK
C8051F063	64 kB	25	4352		24	CAN2.0B, I²C, SPI, 2 x UART	5	6	±2%	16-bit, 1-ch., 1 Msps	16-bit, 1-ch., 1 Msps	12-bit, 2-ch.	•	•	3	10-bit, 8-ch., 200 ksps, DMA	TQFP64	C8051F060DK
C8051F064	64 kB	25	4352	•	59	I²C, SPI, 2 x UART	5	6	±2%	16-bit, 1-ch., 1 Msps	16-bit, 1ch., 1 Msps			•	3	DMA	TQFP100	C8051F060DK
C8051F065	64 kB	25	4352		24	I²C, SPI, 2 x UART	5	6	±2%	16-bit, 1-ch., 1 Msps	16-bit, 1ch., 1 Msps			•	3	DMA	TQFP64	C8051F060DK
C8051F046	32 kB	25	4352	•	64	CAN2.0B, I²C, SPI, 2 x UART	5	6	±2%	10-bit, 13-ch., 100 ksps			•	•	3	±60 V PGA	TQFP100	C8051F040DK
C8051F047	32 kB	25	4352	•	32	CAN2.0B, I²C, SPI, 2 x UART	5	6	±2%	10-bit, 13-ch., 100 ksps			•	•	3	±60 V PGA	TQFP64	C8051F040DK
C8051F066	32 kB	25	4352	•	59	I²C, SPI, 2 x UART	5	6	±2%	16-bit, 1-ch., 1 Msps	16-bit, 1ch., 1 Msps			•	3	DMA	TQFP100	C8051F060DK
C8051F067	32 kB	25	4352		24	I²C, SPI, 2 x UART	5	6	±2%	16-bit, 1-ch., 1 Msps	16-bit, 1ch., 1 Msps			•	3	DMA	TQFP64	C8051F060DK
C8051F005	32 kB	25	2304		32	I²C, SPI, UART	4	5	±20%	12-bit, 8-ch., 100 ksps		12-bit, 2-ch.	•	•	2		TQFP64	C8051F005DK
C8051F006	32 kB	25	2304		16	I²C, SPI, UART	4	5	±20%	12-bit, 8-ch., 100 ksps		12-bit, 2-ch.	•	•	2		TQFP48	C8051F005DK
C8051F007	32 kB	25	2304		8	I²C, SPI, UART	4	5	±20%	12-bit, 4-ch., 100 ksps		12-bit, 2-ch.	•	•	1		LQFP32	C8051F005DK
C8051F015	32 kB	25	2304		32	I²C, SPI, UART	4	5	±20%	10-bit, 8-ch., 100 ksps		12-bit, 2-ch.	•	•	2		TQFP64	C8051F005DK

High-Performance Analog-Intensive MCUs (cont.)

PART NUMBER	FLASH (BYTES)	MIPS (PEAK)	RAM (BYTES)	EXT MEM I/F	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INTERNAL OSC	ADC1	ADC2	DAC	TEMP SENSOR	VREF	COMP.	OTHER	PACKAGE	DEV KIT
C8051F016	32 kB	25	2304		16	I²C, SPI, UART	4	5	±20%	10-bit, 8-ch., 100 ksps		12-bit, 2-ch.	•	•	2		TQFP48	C8051F005DK
C8051F017	32 kB	25	2304		8	I²C, SPI, UART	4	5	±20%	10-bit, 4-ch., 100 ksps		12-bit, 2-ch.	•	•	1		LQFP32	C8051F005DK
C8051F000	32 kB	20	256		32	I²C, SPI, UART	4	5	±20%	12-bit, 8-ch., 100 ksps		12-bit, 2-ch.	•	•	2		TQFP64	C8051F005DK
C8051F001	32 kB	20	256		16	I²C, SPI, UART	4	5	±20%	12-bit, 8-ch., 100 ksps		12-bit, 2-ch.	•	•	2		TQFP48	C8051F005DK
C8051F002	32 kB	20	256		8	I²C, SPI, UART	4	5	±20%	12-bit, 4-ch., 100 ksps		12-bit, 2-ch.	•	•	1		LQFP32	C8051F005DK
C8051F010	32 kB	20	256		32	I²C, SPI, UART	4	5	±20%	10-bit, 8-ch., 100 ksps		12-bit, 2-ch.	•	•	2		TQFP64	C8051F005DK
C8051F011	32 kB	20	256		16	I²C, SPI, UART	4	5	±20%	10-bit, 8-ch., 100 ksps		12-bit, 2-ch.	•	•	2		TQFP48	C8051F005DK
C8051F012	32 kB	20	256		8	I²C, SPI, UART	4	5	±20%	10-bit, 4-ch., 100 ksps		12-bit, 2-ch.	•	•	1		LQFP32	C8051F005DK
C8051F018	16 kB	25	1280		32	I²C, SPI, UART	4	5	±20%	10-bit, 8-ch., 100 ksps			•	•	2		TQFP64	C8051F005DK
C8051F019	16 kB	25	1280		16	I²C, SPI, UART	4	5	±20%	10-bit, 8-ch., 100 ksps			•	•	2		TQFP48	C8051F005DK
C8051F350	8 kB	50	768		17	I²C, SPI, UART	4	3	±2%	24-bit, 8-ch., 1 ksps		8-bit, 2-ch.	•	•	1		LQFP32	C8051F350DK
C8051F351	8 kB	50	768		17	I²C, SPI, UART	4	3	±2%	24-bit, 8-ch., 1 ksps		8-bit, 2-ch.	•	•	1		QFN28	C8051F350DK
C8051F352	8 kB	50	768		17	I²C, SPI, UART	4	3	±2%	16-bit, 8-ch., 1 ksps		8-bit, 2-ch.	•	•	1		LQFP32	C8051F350DK
C8051F353	8 kB	50	768		17	I²C, SPI, UART	4	3	±2%	16-bit, 8-ch., 1 ksps		8-bit, 2-ch.	•	•	1		QFN28	C8051F350DK

USB MCUs: www.silabs.com/usb

PART NUMBER	FLASH MEMORY	MIPS (PEAK)	RAM (BYTES)	EXT MEM I/F	DIG. I/O	COMMUNICATIONS	TIMERS (16-BIT)	PWM/ PCA	INTERNAL OSC	ADC1	TEMP SENSOR	VREF	COMP.	OTHER	PACKAGE	DEV KIT
C8051F340	64 kB	48	4352	•	40	I²C, SPI, 2 x UART, USB 2.0	4	5	±1.5%	10-bit, 17-ch., 200 ksps	•	•	2		TQFP48	C8051F340DK
C8051F342	64 kB	48	4352		25	I²C, SPI, UART, USB 2.0	4	5	±1.5%	10-bit, 17-ch., 200 ksps	•	•	2		LQFP32/ QFN32	C8051F340DK
C8051F34A	64 kB	48	4352		25	I²C, SPI, 2 x UART, USB 2.0	4	5	±1.5%	10-bit, 17-ch., 200 ksps	•	•	2		LQFP32/ QFN32	C8051F340DK
C8051F34C	64 kB	48	4352	•	40	I²C, SPI, 2 x UART, USB 2.0	4	5	±1.5%				2		TQFP48	C8051F340DK
C8051F34D	64 kB	48	4352		25	I²C, SPI, UART, USB 2.0	4	5	±1.5%				2		LQFP32	C8051F340DK
C8051F344	64 kB	25	4352	•	40	I²C, SPI, 2 x UART, USB 2.0	4	5	±1.5%	10-bit, 17-ch., 200 ksps	•	•	2		TQFP48	C8051F340DK
C8051F346	64 kB	25	4352		25	I²C, SPI, UART, USB 2.0	4	5	±1.5%	10-bit, 17-ch., 200 ksps	•	•	2		LQFP32/ QFN32	C8051F340DK
C8051F341	32 kB	48	2304	•	40	I²C, SPI, 2 x UART, USB 2.0	4	5	±1.5%	10-bit, 17-ch., 200 ksps	•	•	2		TQFP48	C8051F340DK
C8051F343	32 kB	48	2304		25	I²C, SPI, UART, USB 2.0	4	5	±1.5%	10-bit, 17-ch., 200 ksps	•	•	2		LQFP32/ QFN32	C8051F340DK
C8051F34B	32 kB	48	2304		25	I²C, SPI, 2 x UART, USB 2.0	4	5	±1.5%	10-bit, 17-ch., 200 ksps	•	•	2		LQFP32/ QFN32	C8051F340DK
C8051F345	32 kB	25	2304	•	40	I²C, SPI, 2 x UART, USB 2.0	4	5	±1.5%	10-bit, 17-ch., 200 ksps	•	•	2		TQFP48	C8051F340DK
C8051F347	32 kB	25	2304		25	I²C, SPI, UART, USB 2.0	4	5	±1.5%	10-bit, 17-ch., 200 ksps	•	•	2		LQFP32/ QFN32	C8051F340DK
C8051F348	32 kB	25	2304	•	40	I²C, SPI, 2 x UART	4	5	±1.5%				2	EMIF	TQFP48	C8051F340DK
C8051F349	32 kB	25	2304		25	I²C, SPI, UART, USB 2.0	4	5	±1.5%				2		LQFP32/ QFN32	C8051F340DK
C8051F320	16 kB	25	2304		25	I²C, SPI, UART, USB 2.0	4	5	±1.5%	10-bit, 17-ch., 200 ksps	•	•	2		LQFP32/ QFN32	C8051F320DK
C8051F321	16 kB	25	2304		21	I²C, SPI, UART, USB 2.0	4	5	±1.5%	10-bit, 13-ch., 200 ksps	•	•	2		QFN28	C8051F320DK
C8051F326	16 kB	25	1536		15	UART, USB 2.0	2		±1.5%					Separate I/O Supply Pin	QFN28	C8051F326DK
C8051F327	16 kB	25	1536		15	UART, USB 2.0	2		±1.5%					Fixed I/O Supply	QFN28	C8051F326DK

Smart Interface Devices: www.silabs.com/interface

PART NUMBER	DESCRIPTION	LCD SEGMENTS	EEPROM (BYTES)	RAM (BYTES)	DIGITAL PORT I/O PINS	SERIAL BUSES	TIMERS (16-BIT)	INTERNAL OSC	TEMP. RANGE	OTHER	PACKAGE	EVAL KIT
CP2102	UART to USB Bridge	0	1024	1024		UART, USB 2.0	0	•	–40 to 85 °C	Volt Reg	QFN28	CP2102EK
CP2103	UART to USB Bridge	0	1024	1024	4	UART, USB 2.0	0	•	–40 to 85 °C	Volt Reg, RS-485, Split V_{DDIO}	QFN28	CP2103EK
CP2104	UART to USB Bridge	0	1024	1152	4	UART, USB 2.0	0	•	–40 to 85 °C	Volt Reg, RS-485, Split V_{DDIO}	QFN24	CP2104EK
CP2105	UART to Dual USB Bridge	0	296	608	5	UART, USB 2.0	0	•	–40 to 85 °C	Volt Reg, RS-485, Split V_{DDIO}	QFN24	CP2105EK
CP2110	HID USB to UART Bridge	0	343	960	10	UART, USB 2.0	0	•	–40 to 85 °C	Volt Reg, RS-485, Split V_{DDIO}	QFN24	CP2110EK
CP2112	USB to SMBus Bridge	0	194	512	8	USB 2.0, SMBus	0	•	–40 to 85 °C	Volt Reg	QFN24	CP2112EK
CP2120	SPI to I^2C Bridge, GPIO Port Expander	0	0	512 (buffer RAM)		SPI to I^2C	0	•	–40 to 85 °C	Voltage Monitor	QFN20	CP2120EB
CP2200	Ethernet Controller	0	8 K	2 kB TX buffer, 4 kB RX buffer	0	8-bit non-muxed Ext. Mem I/F	0		–40 to 85 °C	Integrated Ethernet Transceiver	TQFP48	ETHERNETDK
CP2201	Ethernet Controller	0	8 K	2 kB TX buffer, 4 kB RX buffer	0	8-bit muxed Ext. Mem I/F	0		–40 to 85 °C	Integrated Ethernet Transceiver	QFN28	ETHERNETDK
CP2400	LCD Driver	128	0	256	36	SPI	2	•	–40 to 85 °C	Ultra-low power mode	QFN48/ TQFP48	CP2400DK
CP2401	LCD Driver	128	0	256	36	I^2C	2	•	–40 to 85 °C	Ultra-low power mode	QFN48/ TQFP48	CP2401DK
CP2402	LCD Driver	64	0	256	36	SPI	2	•	–40 to 85 °C	Ultra-low power mode	QFN32	CP2400DK
CP2403	LCD Driver	64	0	256	36	I^2C	2	•	–40 to 85 °C	Ultra-low power mode	QFN32	CP2401DK
CP2501	Touch Screen USB Bridge	0	0	4352	25	I^2C, SPI, UART, USB	4	1.5%	–40 to 85 °C	Windows-compatible USB HID touchscreen interface	QFN32	CP2501EK

Wireless

REQUEST SAMPLES AND DOWNLOAD DOCUMENTATION AT www.silabs.com/wireless

EZRadio® Universal ISM Band RF ICs

PART NUMBER	TYPE	MODULATION SCHEME (MAX KBPS)		FREQUENCY BANDS (MHz)				OUTPUT POWER MAX (dBm)		SUPPLY VOLTAGE (V)	SENSITIVITY (dBm)	PACKAGE
		FSK	OOK	315	434	868	915	868 MHz BAND	434 MHz BAND			
Si4010	MCU +TX	100	50	27 - 960				10		1.8-3.6		MSOP10/SOIC14
Si4012	TX	100	50	27 - 960				10		1.8-3.6		MSOP10/SOIC14
Si4021	TX	115	512		•	•	•	6	8	2.2-5.4		TSSOP16
Si4022	TX	115				•	•	6	8	2.2-3.8		TSSOP16
Si4311	RX	10		•	•					2.7-3.6	-104	QFN20
Si4312	RX		10	•	•					2.7-3.6	-110	QFN20
Si4313	RX	256	40	•	•	•	•			1.8-3.6	-118/-107	QFN20
Si4322	RX	256				•	•			2.2-3.8	-104	TSSOP16

EZRadioPRO® Radio with Enhanced Features

PART NUMBER	TYPE	MODULATION SCHEME (MAX KBPS)		FREQUENCY RANGE (MHz)	OUTPUT POWER RANGE (dBm)	SENSITIVITY (dBm) (2.0 KBPS) (FSK)	SENSITIVITY (dBm) (4.8 KBPS) (OOK)	RX CURRENT (mA)	TX CURRENT (dBm) (mA) 0	+11	+13	20	PACKAGE
Si4030	TX	256	40	900-960	-8 to +13				18		30		QFN20
Si4031	TX	256	40	240-930	-8 to +13				18		30		QFN20
Si4032	TX	256	40	240-930	+1 to +20					35		85	QFN20
Si4330	RX	256	40	240-960		-121	-110	18.5 mA					QFN20
Si4430	TRX	256	40	900-960	-8 to +13	-12	-110	18.5 mA	18		30		QFN20
Si4431	TRX	256	40	240-930	-8 to +13	-121	-110	18.5 mA	18		30		QFN20
Si4432	TRX	256	40	240-930	+1 to +20	-121	-110	18.5 mA		35		85	QFN20

Makes Finding the Right Part Easy!

Clock and Oscillator Design Services

Silicon Labs offers the industry's broadest portfolio of clocks and oscillators for communications, computing, broadcast and consumer applications with the shortest lead times in the industry. Our timing IC portfolio leverages patented DSPLL, MultiSynth and silicon oscillator technologies to eliminate expensive discrete components while improving performance, minimizing board space and simplifying system design. Below are three services we offer to help make your next project easier.

QUICKLY BUY OR SAMPLE PRODUCTS ON OUR WEBSITE AT www.silabs.com/timing

Clock Tree Design Utility

Interested in simplifying your clock tree? Silicon Labs offers clock tree design and consulting services to help designers simplify design and layout. Simply fill out the web form or, for more complicated timing architectures, upload file(s) showing your existing clock tree and Silicon Labs will return a custom clock tree proposal within 3 business days based on your design.

Industry's Shortest Lead Times

Low-jitter, high-performance, custom samples are available overnight, and to help you get to market faster, production quantities ship in less than 2–4 weeks. Silicon Labs' complete portfolio of industry-leading XOs, VCXOs, clock generators, jitter attenuating clocks and clock buffers set a new standard for flexibility, performance and lead time.

- Most frequency flexible timing solutions in the industry; ideal for multi-rate applications
- Available in industry-standard, drop-in compatible packages
- Based on patented DSPLL® and MultiSynth technologies, these low jitter products improve system performance, reduce BOM, minimize board space and simplify system design
- All custom devices are available without NRE fees and < 2-week lead times

ISOdriver Challenge Web Utility

Are you ready to evaluate your current digital isolator technology? Having problems with your current opto + driver combination? Or just intereted in seeing how Silicon Labs stacks up against the competition? Take the ISOdriver Challenge and compare our stats against similar solutions on the market today. www.silabs.com/ISOdriverChallenge

Turnkey Support

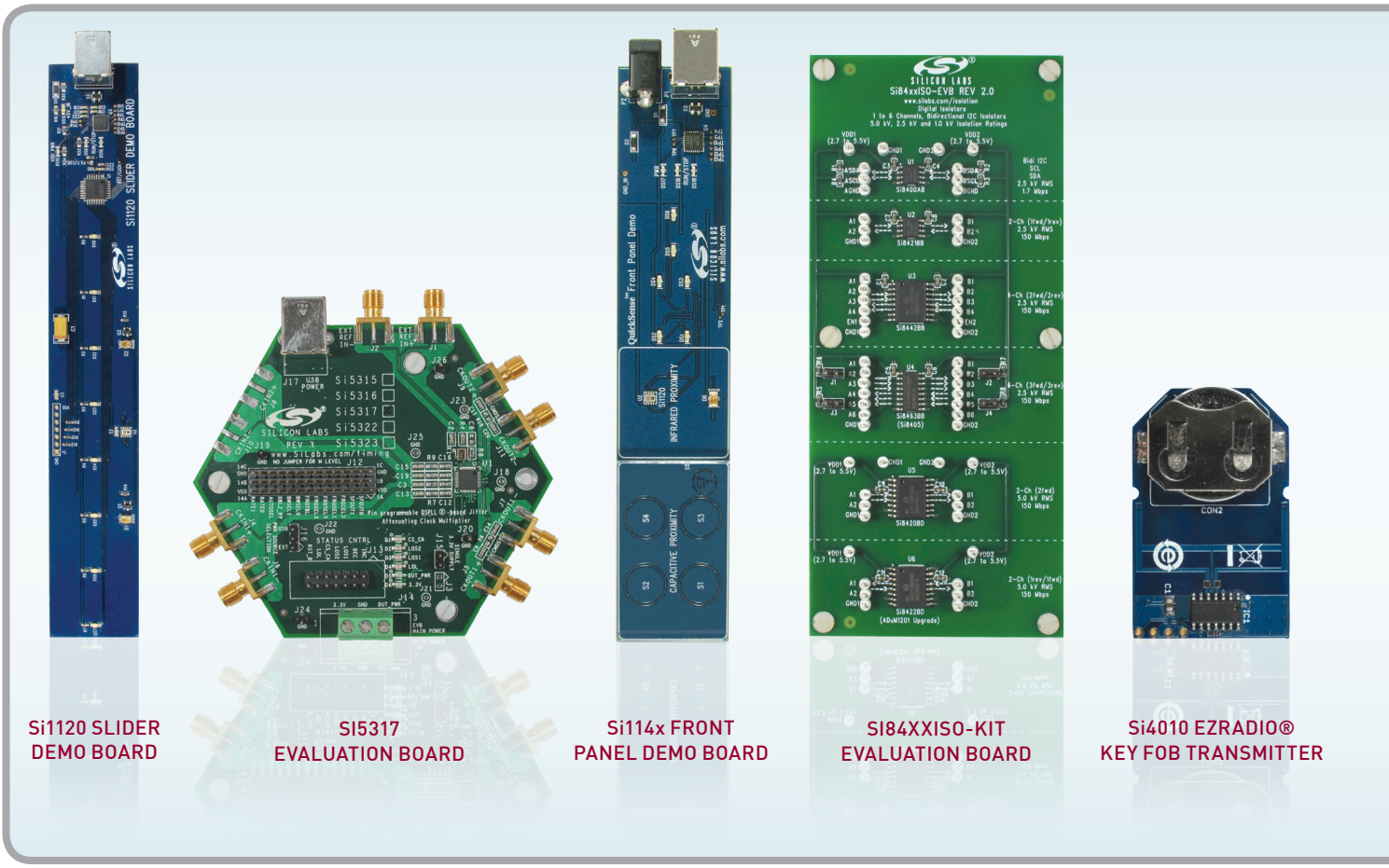
FIND THE TOOLS YOU NEED TO HELP WITH YOUR ENTIRE PROJECT www.silabs.com/devkits

Development Support

Silicon Labs offers complete tools to help designers throughout the entire project. Both the microcontroller and EZRadioPRO® wireless solutions offer hardware and software platforms to easily set up and configure, compile and debug a project. Full documentation and a broad range of third-party compilers and development tools are available. Software stacks provide networking support for multi-node metering networks. Software simulation tools can estimate power consumption and determine expected battery life.

Complete development/prototyping system includes the following:

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



Si1120 SLIDER DEMO BOARD

SI5317 EVALUATION BOARD

Si114x FRONT PANEL DEMO BOARD

SI84XXISO-KIT EVALUATION BOARD

Si4010 EZRADIO® KEY FOB TRANSMITTER

EZMac® Embedded Media Access Control Software

EZMac® media access control module is developed in C code for use with our ISM transceiver products and MCUs to create very low cost mesh networks. EZMac software provides designers a simplified interface to the physical radio layer that manages signal delivery and associated packets from the transmitter to the receiver and between nodes.

Requirement :: **Development Support**

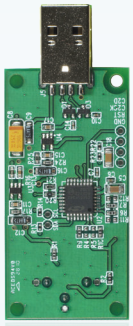
- Supports ISM band transceivers
- Internal baud rate generator
- 16 byte payload per packet
- Dedicated crystal oscillator for exact timing
- DQD (data quality detector) for FSK fast frequency hopping
- Configurable packet filtering
- Multiple error detection

Wireless Development Suite

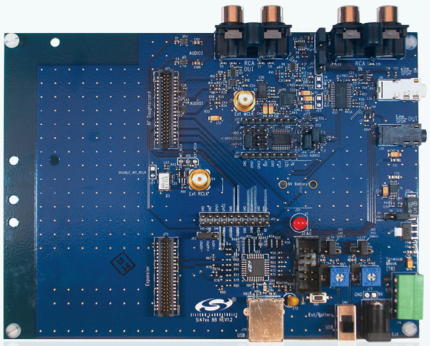
The Wireless Development Suite (WDS) provides developers a comprehensive toolset to quickly and easily create and deploy efficient, robust and low-cost wireless applications. WDS can be used for demonstrating part capabilities, testing performance, and prototyping application examples, with little or no RF design and measurement experience.

Requirement :: **Prototyping and Test**

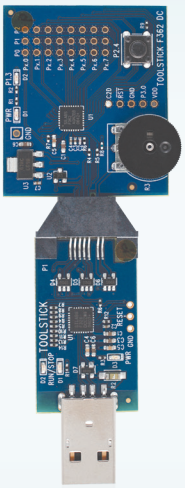
- Supports a family of TX, RX and TRX test cards
- Device config, save, and restore
- Custom scripting API
- Online device documentation
- Terminal window
- PC interface to evaluation boards



TIMING TOOLSTICK



Si47xx EVALUATION BOARD



MCU USB TOOLSTICK

C8051F990 SLIDER EVALUATION KIT

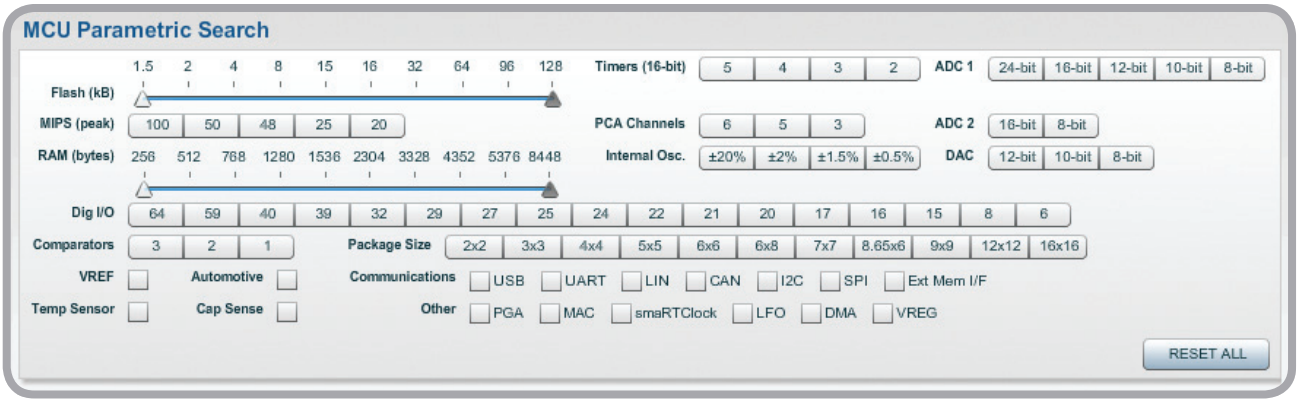
QUICKSENSE™ STUDIO GUI

Buy or Sample Mixed-Signal ICs

QUICKLY BUY OR SAMPLE PRODUCTS ON OUR WEBSITE AT www.silabs.com/buy

Parametric Searches

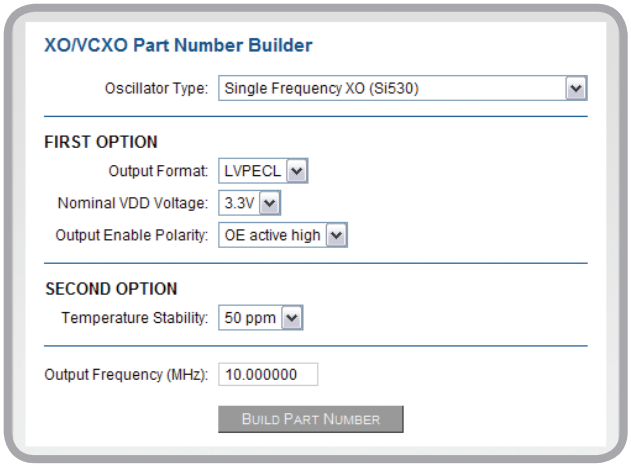
Silicon Labs offers easy-to-use parametric searches for MCU, Isolators, ISOdrivers, Clocks and Oscillator products. Click the buttons to filter as you search for the features you require and find the perfect part to meet your needs. You can then buy or sample parts or export your results into a sortable Excel spreadsheet.



Built to Order Custom XO/VCXO Samples

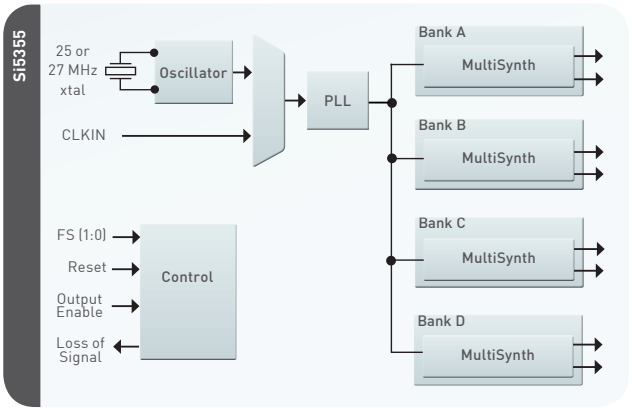
Silicon Labs offers an easy-to-use web utility to build and configure the right XO/VCXO for your application in minutes. Need to reorder? Look up a currently existing product by part number or top mark code. Samples will ship in less than two weeks.

2 WEEK LEAD TIMES



ClockBuilder™ Utility

The ClockBuilder utility allows designers to tailor the Si5350/55's flexible clock architecture to build custom, application-specific clocks, eliminating the need for field programming hardware and software required by programmable clocks. Select the input and output frequency requirements below to generate a custom part number. The custom build clock is ready to ship in two weeks!



Environmental Data Part Number Search

The environmental data part number search provides detailed device composition and test results for Silicon Labs part numbers. You can also download the following documents for each part number:

- Detailed Device Composition (MDDS Data)
- IPC 1752-1 (XML format)
- RoHS Certificate of Compliance
- Halogen-Free Certificate of Compliance
- PFOS Certificate of Compliance
- REACH Declaration

Silicon Labs' products are designed and manufactured to ISO 9001, ISO 14001 and ISO/TS 16949 standards.

ISO 9001
Quality Management System
Design and Manufacture of Integrated Circuits
Certificate Registration No: 951 08 4762

ISO 14001
Environmental Management System
Design and Manufacture of Integrated Circuits
Certificate Registration No: 951 09 4998

ISO/TS 16949
Quality Management System for
Manufacture of Integrated Circuits and Related
Products for Automotive Applications
Certificate Registration No.: 12 111 33114 TMS
IATF Certificate No.: 0080212

Silicon Labs audio products are CE certified; Certificate No: EN55020

Mixed Sources
Product group from well-managed forests, controlled sources and recycled wood or fiber
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