

GPS

Power Consumption	Position Accuracy	Sensitivity (dBm)	Start Time (Hot)	Start Time (Warm)	Antenna Included	Module Size (mm)	Digi-Key Part No.	Price Each		
								1	25	100
19mA	<5 CEP (No software assist)	-143	<12 Seconds	<32 Seconds	No	31.59 x 26.59 x 11.2	RGPSM002-ND	68.75	45.65	38.50
19mA	<5 CEP (No software assist)	-143	<12 Seconds	<32 Seconds	Yes	31.59 x 26.59 x 11.2	RGPSM002WA-ND	79.75	52.96	44.66
25mA	<5 CEP (No software assist)	-143	<12 Seconds	<32 Seconds	No	38 x 26.5	RGPSM202-ND	82.50	54.78	46.20
Evaluation Kit										
Evaluation Kit for RGPSM002, includes module, development board, CD with documentation, antenna and USB Cable							RGPSD012-ND	525.00	—	—

B

CODECS



ADC	SNR (Fsync=20kHz)	THD (Fsync=20kHz, 1/4 FS)	Supply Voltage (V)	Sampling Rate (kHz)	DAC	Package	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†	
								1	25	100	Qty.	Pricing
16-bit $\Sigma \Delta$	78	0.5	1.8	4-48	16-bit PWM	20-TSSOP	XE3005I033CT-ND	4.38	2.91	2.45	2,500	2328.00/M
16-bit $\Sigma \Delta$	78	0.5	1.8	4-48	16-bit PWM	20-UCSP	XE3005I064CT-ND	4.10	2.73	2.30	2,000	2181.00/M

† For Tape and Reel part number, change CT-ND to TR-ND.

Data Acquisition - ZoomingADC™

MCU MIPS	Max Speed CPU (MHz)	RAM (bytes)	Supply Voltage Min. / Max.	MTP (Multiple time Programmable ROM) KB	Temperature	Package	Digi-Key Part No.	Price Each			Tape and Reel†	
								1	25	100	Qty.	Pricing
2	4	520	2.4 / 5.5	22	-40°C - 85°C	44-LQFP	XE8801AMI027LF-ND◆	11.43	7.59	6.40	—	—
2	4	1032	2.4 / 5.5	22		100-LQFP	XE8802MI035LF-ND◆	18.30	12.16	10.25	—	—
2	5	520	2.4 / 5.5	22		64-LQFP	XE8805AMI028LF-ND◆	12.38	8.22	6.93	—	—
2.5	5	520	2.4 / 5.5	22		32-TQFP	XE8806AMI026CT-ND◆†	7.55	5.02	4.23	2,000	4017.00/M
5	5	520	2.4 / 5.5	22		32-TQFP	XE8807AMI026CT-ND◆†	7.55	5.02	4.23	2,000	4017.00/M
—	—	—	2.4 / 5.5	—	-40°C - 125°C	44-MLPG	SX8722I070LFC-ND◆†	11.23	7.46	6.29	2,000	6062.00/M
—	—	—	2.4 / 5.5	—		12-MLPD	SX8723E083CT-ND◆† NEW!	4.50	2.99	2.52	3,000	2430.00/M
—	—	—	2.4 / 5.5	—		16-MLPQ	SX8724E082CT-ND◆† NEW!	5.50	3.66	3.08	3,000	2970.00/M
—	—	—	2.4 / 5.5	—		12-MLPD	SX8725E083CT-ND◆† NEW!	3.58	2.38	2.01	3,000	1930.50/M
Evaluation and Programming Boards												
Evaluation Board for the XE8801							XE8000EV101-ND	310.00	—	—	—	—
Evaluation Board for the XE8805							XE8000EV104-ND	310.00	—	—	—	—
Evaluation Board for the XE8806/XE8807							XE8000EV108-ND	310.00	—	—	—	—
Evaluation Board for the XE8802							XE8000EV110-ND	440.00	—	—	—	—
Program Board and the ProStart2 Card for the XE88xx series							XE8000MP-ND	280.00	—	—	—	—
Evaluation Board for the SX8722							XE8000EV120-ND◆	112.00	—	—	—	—
Evaluation Board for the SX8723/24							XE8000EV121-ND◆ NEW!	200.00	—	—	—	—

† Cut Tape ‡ For Tape and Reel part number, change CT-ND to TR-ND. ◆ RoHS Compliant



2.4GHz ZigBee™ Development Kit

The 2.4GHz ZigBee Development Kit (ZigBee-2.4-DK) includes all hardware and software necessary to immediately begin developing ZigBee network solutions. This comprehensive development platform allows customers to focus on application development rather than hardware selection and integration. Silicon Laboratories' industry-compliant ZigBee development platform benefits customers by ensuring multi-vendor interoperability.

The ZigBee-2.4-DK contains the following items: • Six 2.4GHz 802.15.4 Development Boards with Antennas • One 9V, 1.5A Universal Power Supply • One USB Debug Adapter • Two USB Cables • Six 9V Batteries

336-1275-ND 2.4GHz ZigBee Development Kit \$993.75

802.15.4-2.4-DK Development Kit

The 2.4GHz 802.15.4 Development Kit (802.15.4-2.4-DK) includes all of the hardware and software necessary to immediately begin developing an 802.15.4 solution. This comprehensive development platform allows customers to focus on application development rather than hardware selection and integration. Silicon Laboratories' industry-compliant (tested for compliance by TÜV Rheinland) 802.15.4 development platform benefits customers by ensuring multi-vendor interoperability.

The 802.15.4-2.4-DK contains the following items: • Two 2.4GHz 802.15.4 ZigBee Target Boards • Two Antennas • Two 9V batteries • 2.4GHz 802.15.4 Development Kit User's Guide • AC to DC power adapter • USB debug adapter (USB to debug interface) • Two USB cables

336-1295-ND 2.4GHz 802.15.4-2.4-DK Development Kit \$564.25

RF Synthesizers

Silicon Laboratories' wireless solutions are the world's most integrated, robust, reliable and easiest to use wireless solutions available in the market today. By eliminating more discretes and requiring fewer external components than alternate solutions, our products empower our customers to add value-rich features and speed time to market. Best of all, we develop and design these world-class products in proven, standard CMOS process technology.

Features: • CMOS RF synthesizers with integrated VCOs, loop filters and varactors • Low profile packages

Description	RF1 (MHz)	RF2 (MHz)	IF (MHz)	Setting Time (µs)	Input RF (MHz)	Package	Digi-Key Part No.	Price Each		Silicon Labs Part No.	Evaluation Board Digi-Key Part No.	Price Each	Silicon Labs Part No.
								1	25				
IF OUT, Lead Free, QFN	900 - 1.8	750 - 1.5	62.5 - 1000	200§	2 - 26	28-QFN	336-1170-ND◆	5.96	5.30	SI4112-D-GM	—	—	—
IF OUT, Lead Free, TSSOP	900 - 1.8	750 - 1.5	62.5 - 1000	200§	2 - 26	24-TSSOP	336-1171-ND◆	5.96	5.30	SI4112-D-GT	—	—	—
General Purpose	900 - 2050	750 - 1500	N/A	200§	2 - 26	28-MLP	336-1099-ND◆	8.84	7.86	SI4113-D-GM	336-1100-ND	225.00	SI4113M-EVB
RF1/RF2 OUT, Lead Free, TSSOP	900 - 1.8	750 - 1.5	62.5 - 1000	200§	2 - 26	24-TSSOP	336-1172-ND◆	8.84	7.86	SI4113-D-GT	—	—	—
General Purpose	N/A	750 - 1500	62.5 - 1000	200§	2 - 26	28-MLP	336-1103-ND◆	8.84	7.86	SI4122-D-GM	336-1104-ND	225.00	SI4122M-EVB
RF2/IF OUT, Lead Free, TSSOP	900 - 1.8	750 - 1.5	62.5 - 1000	200§	2 - 26	24-TSSOP	336-1173-ND◆	8.84	7.86	SI4122-D-GT	—	—	—
RF1/IF OUT, Lead Free, QFN	900 - 1.8	750 - 1.5	62.5 - 1000	200§	2 - 26	28-QFN	336-1174-ND◆	8.84	7.86	SI4123-D-GM	—	—	—
802.11b.g and Ism Band	N/A	2025 - 2300	62.5 - 1000	80†	2 - 50	28-MLP	336-1111-ND	8.73	7.86	SI4126-BM	—	—	—
2.3GHz/IF OUT	2300 - 2500	2025 - 2300	62.5 - 1000	80†	2 - 50	28-MLP	336-1176-ND	8.73	7.86	SI4126-F-BM	—	—	—
2.3GHz/IF OUT, Lead Free	N/A	2025 - 2300	62.5 - 1000	100†	2 - 50	28-MLP	336-1289-5-ND◆	8.84	7.86	SI4126-F-GM	—	—	—
General Purpose	900 - 2050	750 - 1500	62.5 - 1000	200§	2 - 26	28-MLP	336-1113-ND◆	11.03	9.80	SI4133-BM	—	—	—
RF1/RF2/IF OUT, Lead Free, TSSOP	900 - 1.8	750 - 1.5	62.5 - 1000	200§	2 - 26	24-TSSOP	336-1177-ND◆	11.03	9.80	SI4133-D-GT	—	—	—
802.11b.g and Ism Band	2300 - 2500	2025 - 2300	62.5 - 1000	80†	2 - 50	28-MLP	336-1118-ND	10.89	9.80	SI4136-BM	336-1119-ND	225.00	SI4136M-EVB
2.5GHz/2.3GHz/IF OUT, Lead Free	2300 - 2500	2025 - 2300	62.5 - 1000	80†	2 - 50	28-QFN	336-1178-ND◆	11.03	9.80	SI4136-F-GM	—	—	—
2.5GHz/2.3GHz/IF OUT, Lead Free	2300 - 2500	2025 - 2300	62.5 - 1000	100†	2 - 50	24-TSSOP	336-1291-5-ND◆	11.03	9.80	SI4136-F-GT	336-1119-ND	225.00	SI4136M-EVB

§ For a 200kHz update rate † For update rates > 500kHz ◆ RoHS Compliant

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

More Product Available Online: www.digikey.com