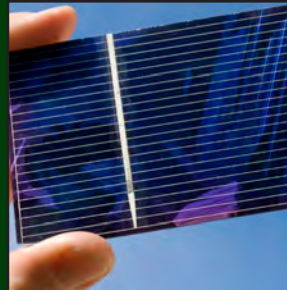


WIRELESS PRODUCT SELECTOR GUIDE



SPRING 2012

www.silabs.com



Complete Family of Wireless Solutions

Single-chip ISM band transceivers, receivers and transmitters are highly integrated, low power, low cost solutions designed to support a wide range of wireless applications. Wireless MCUs is the industry's lowest power single-chip solution that combines an MCU solution with an integrated sub-GHz RF transceiver.



Robust Tools, Software and Support

Complete tools to help you throughout the entire project cycle. Wireless solutions include documentation, development hardware and software platforms to easily set up and configure and compile a project.



Perfect for Your Application

Optimized for power efficiency, the high performance, low power mixed-signal wireless family reduces system cost, improves reliability and enables new features for a variety of end equipment solutions

SPRING 2012

Solutions for industrial, communications, consumer and medical applications

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SILICON LABS®

Wireless Products

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

EZRadio® Universal ISM Band RF ICs: www.silabs.com/ezradio

Fully integrated, low-power, low data rate, low cost transmitter, receiver and transceiver 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 |
| Si4311 | RX | 10 | — | • | • | | | | | 2.7-3.6 | -104 | QFN20 |
| Si4313 | RX | 256 | 40 | • | • | • | • | | | 1.8-3.6 | -118/-107 | QFN20 |

EZRadioPRO® Radio with Enhanced Features: www.silabs.com/ezradiopro

Support continuous frequency tuning from 240 to 1050 MHz and output power up to +20 dBm

| PART NUMBER | TYPE | MODULATION SCHEME (MAX KBPS) | | FREQUENCY RANGE (MHz) | OUTPUT POWER RANGE (dBm) | SENSITIVITY (dBm) | | RX CURRENT (mA) | TX CURRENT (mA) | | | | PACKAGE |
|-------------|------|---------------------------------|-----|--------------------------|-----------------------------|---------------------|---------------------|-----------------------|-----------------|-----|-----|----|---------|
| | | FSK | OOK | | | (2.0 KBPS) (FSK) | (4.8 KBPS) (OOK) | | 0 | +11 | +13 | 20 | |
| 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 |
| Si4060 | TX | 1000 | 120 | 142-1050 Major Bands | -40 to +13 | — | — | — | 18 | | | | QFN20 |
| Si4063 | TX | 1000 | 120 | 142-1050 Major Bands | -20 to +20 | — | — | — | | | | 85 | QFN20 |
| Si4330 | RX | 256 | 40 | 240-960 | — | -121 | -110 | 18.5 mA | | | | | QFN20 |
| Si4362 | RX | 1000 | 120 | 142-1050 Major Bands | — | -124 | -112 | 10/13 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 |
| Si4460 | TRX | 1000 | 120 | 142-1050 Major Bands | +11 | -124 | -112 | 10/13 mA | 18 | 25 | | | QFN20 |
| Si4461 | TRX | 1000 | 120 | 142-1050 Major Bands | +16 | -124 | -112 | 10/13 mA | | | 31 | | QFN20 |
| Si4463 | TRX | 1000 | 120 | 142-1050 Major Bands | +1 to +20 | -124 | -112 | 10/13 mA | | | | 85 | QFN20 |
| Si4464 | TRX | 1000 | 120 | 119-960 | +1 to +20 | -124 | -112 | 10/13 mA | | | | 85 | QFN20 |

Wireless MCUs: www.silabs.com/wirelessmcu

Industry's lowest power single-chip MCU with an integrated sub-GHz RF transceiver

| PART NUMBER | FLASH MEMORY | MIPS (PEAK) | RAM (BYTES) | DIG. I/O | COMM. | FSK/GFSK (KBPS) | OOK (KBPS) | OUTPUT POWER (DBM) | 2/4.8 KBPS SENSITIVITY | TX CURRENT (mA) | | | TIMERS (16-BIT) | PWM/PCA | INT OSC | ADC | COMP. | OTHER | PACKAGE | DEV KIT |
|-------------|--------------|-------------|-------------|----------|---------------------------------|-----------------|------------|--------------------|------------------------|-----------------|-----|-----|-----------------|---------|---------|--------------------------|-------|-------------------------------------|---------|-----------|
| | | | | | | | | | | +11 | +13 | +20 | | | | | | | | |
| Si1000 | 64 kB | 25 | 4352 | 22 | I ² C, SPI, UART | 256 | 40 | +1 to +20 | -121/-110 | | | 85 | 4 | 6 | ±2% | 10-bit, 18-ch., 300 ksps | 2 | Temp Sensor, RTC, CRC, VREF | QFN42 | Si1000DK |
| Si1002 | 64 kB | 25 | 4352 | 22 | I ² C, SPI, UART | 256 | 40 | -8 to +13 | -121/-110 | 17 | 30 | | 4 | 6 | ±2% | 10-bit, 18-ch., 300 ksps | 2 | Temp Sensor, RTC, CRC, VREF | QFN42 | Si1000DK |
| Si1004 | 64 kB | 25 | 4352 | 19 | I ² C, SPI, UART | 256 | 40 | -8 to +13 | -121/-110 | 17 | 30 | | 4 | 6 | ±2% | 10-bit, 15-ch., 300 ksps | 2 | VREF, Temp Sensor, RTC, CRC, DC-DC | QFN42 | Si1000DK |
| Si1001 | 32 kB | 25 | 4352 | 22 | I ² C, SPI, UART | 256 | 40 | +1 to +20 | -121/-110 | | | 85 | 4 | 6 | ±2% | 10-bit, 18-ch., 300 ksps | 2 | Temp Sensor, RTC, CRC, VREF | QFN42 | Si1000DK |
| Si1003 | 32 kB | 25 | 4352 | 22 | I ² C, SPI, UART | 256 | 40 | -8 to +13 | -121/-110 | 17 | 30 | | 4 | 6 | ±2% | 10-bit, 18-ch., 300 ksps | 2 | Temp Sensor, RTC, CRC, VREF | QFN42 | Si1000DK |
| Si1005 | 32 kB | 25 | 4352 | 19 | I ² C, SPI, UART | 256 | 40 | -8 to +13 | -121/-110 | 17 | 30 | | 4 | 6 | ±2% | 10-bit, 15-ch., 300 ksps | 2 | VREF, Temp Sensor, RTC, CRC, DC-DC | QFN42 | Si1000DK |
| Si1010 | 16 kB | 25 | 768 | 15 | I ² C, SPI, UART | 256 | 40 | +1 to +20 | -121/-110 | | | 85 | 4 | 6 | ±2% | 12-bit, 11-ch., 75 ksps | 2 | Temp Sensor, RTC, CRC, VREF | QFN42 | Si1010DK |
| Si1012 | 16 kB | 25 | 768 | 15 | I ² C, SPI, UART | 256 | 40 | -8 to +13 | -121/-110 | 17 | 30 | | 4 | 6 | ±2% | 12-bit, 11-ch., 75 ksps | 2 | Temp Sensor, RTC, CRC, VREF | QFN42 | Si1010DK |
| Si1014 | 16 kB | 25 | 768 | 15 | I ² C, SPI, UART | 256 | 40 | -8 to +13 | -121/-110 | 17 | 30 | | 4 | 6 | ±2% | 12-bit, 11-ch., 75 ksps | 2 | VREF, Temp Sensor, RTC, CRC, DC-DC | QFN42 | Si1010DK |
| Si1011 | 8 kB | 25 | 768 | 15 | I ² C, SPI, UART | 256 | 40 | +1 to +20 | -121/-110 | | | 85 | 4 | 6 | ±2% | 12-bit, 11-ch., 75 ksps | 2 | Temp Sensor, RTC, CRC, VREF | QFN42 | Si1010DK |
| Si1013 | 8 kB | 25 | 768 | 15 | I ² C, SPI, UART | 256 | 40 | -8 to +13 | -121/-110 | 17 | 30 | | 4 | 6 | ±2% | 12-bit, 11-ch., 75 ksps | 2 | Temp Sensor, RTC, CRC, VREF | QFN42 | Si1010DK |
| Si1015 | 8 kB | 25 | 768 | 15 | I ² C, SPI, UART | 256 | 40 | -8 to +13 | -121/-110 | 17 | 30 | | 4 | 6 | ±2% | 12-bit, 11-ch., 75 ksps | 2 | VREF, Temp Sensor, RTC, CRC, DC-DC | QFN42 | Si1010DK |
| Si1020 | 128 kB | 25 | 8448 | 53 | I ² C, 2 x SPI, UART | 256 | 40 | +1 to +20 | -121/-110 | | | 85 | 4 | 6 | ±2% | 12-bit, 16-ch., 75 ksps | 2 | VREF, Temp Sensor, 128 LCD Segments | LGA85 | Si1020DK* |
| Si1021 | 64 kB | 25 | 8448 | 53 | I ² C, 2 x SPI, UART | 256 | 40 | +1 to +20 | -121/-110 | | | 85 | 4 | 6 | ±2% | 12-bit, 16-ch., 75 ksps | 2 | VREF, Temp Sensor, 128 LCD Segments | LGA85 | Si1020DK* |
| Si1022 | 32 kB | 25 | 8448 | 53 | I ² C, 2 x SPI, UART | 256 | 40 | +1 to +20 | -121/-110 | | | 85 | 4 | 6 | ±2% | 12-bit, 16-ch., 75 ksps | 2 | VREF, Temp Sensor, 128 LCD Segments | LGA85 | Si1020DK* |
| Si1023 | 16 kB | 25 | 4352 | 53 | I ² C, 2 x SPI, UART | 256 | 40 | +1 to +20 | -121/-110 | | | 85 | 4 | 6 | ±2% | 12-bit, 16-ch., 75 ksps | 2 | VREF, Temp Sensor, 128 LCD Segments | LGA85 | Si1020DK* |
| Si1024 | 128 kB | 25 | 8448 | 53 | I ² C, 2 x SPI, UART | 256 | 40 | -8 to +13 | -121/-110 | 17 | 30 | | 4 | 6 | ±2% | 12-bit, 16-ch., 75 ksps | 2 | VREF, Temp Sensor, 128 LCD Segments | LGA85 | Si1024DK* |
| Si1025 | 64 kB | 25 | 8448 | 53 | I ² C, 2 x SPI, UART | 256 | 40 | -8 to +13 | -121/-110 | 17 | 30 | | 4 | 6 | ±2% | 12-bit, 16-ch., 75 ksps | 2 | VREF, Temp Sensor, 128 LCD Segments | LGA85 | Si1024DK* |
| Si1026 | 32 kB | 25 | 8448 | 53 | I ² C, 2 x SPI, UART | 256 | 40 | -8 to +13 | -121/-110 | 17 | 30 | | 4 | 6 | ±2% | 12-bit, 16-ch., 75 ksps | 2 | VREF, Temp Sensor, 128 LCD Segments | LGA85 | Si1024DK* |
| Si1027 | 16 kB | 25 | 4352 | 53 | I ² C, 2 x SPI, UART | 256 | 40 | -8 to +13 | -121/-110 | 17 | 30 | | 4 | 6 | ±2% | 12-bit, 16-ch., 75 ksps | 2 | VREF, Temp Sensor, 128 LCD Segments | LGA85 | Si1024DK* |
| Si1030 | 128 kB | 25 | 8448 | 53 | I ² C, 2 x SPI, UART | 256 | 40 | +1 to +20 | -121/-110 | | | 85 | 4 | 6 | ±2% | 12-bit, 16-ch., 75 ksps | 2 | VREF, Temp Sensor | LGA85 | Si1020DK* |
| Si1031 | 64 kB | 25 | 8448 | 53 | I ² C, 2 x SPI, UART | 256 | 40 | +1 to +20 | -121/-110 | | | 85 | 4 | 6 | ±2% | 12-bit, 16-ch., 75 ksps | 2 | VREF, Temp Sensor | LGA85 | Si1020DK* |
| Si1032 | 32 kB | 25 | 8448 | 53 | I ² C, 2 x SPI, UART | 256 | 40 | +1 to +20 | -121/-110 | | | 85 | 4 | 6 | ±2% | 12-bit, 16-ch., 75 ksps | 2 | VREF, Temp Sensor | LGA85 | Si1020DK* |
| Si1033 | 16 kB | 25 | 4352 | 53 | I ² C, 2 x SPI, UART | 256 | 40 | +1 to +20 | -121/-110 | | | 85 | 4 | 6 | ±2% | 12-bit, 16-ch., 75 ksps | 2 | VREF, Temp Sensor | LGA85 | Si1020DK* |
| Si1034 | 128 kB | 25 | 8448 | 53 | I ² C, 2 x SPI, UART | 256 | 40 | -8 to +13 | -121/-110 | 17 | 30 | | 4 | 6 | ±2% | 12-bit, 16-ch., 75 ksps | 2 | VREF, Temp Sensor | LGA85 | Si1024DK* |
| Si1035 | 64 kB | 25 | 8448 | 53 | I ² C, 2 x SPI, UART | 256 | 40 | -8 to +13 | -121/-110 | 17 | 30 | | 4 | 6 | ±2% | 12-bit, 16-ch., 75 ksps | 2 | VREF, Temp Sensor | LGA85 | Si1024DK* |
| Si1036 | 32 kB | 25 | 8448 | 53 | I ² C, 2 x SPI, UART | 256 | 40 | -8 to +13 | -121/-110 | 17 | 30 | | 4 | 6 | ±2% | 12-bit, 16-ch., 75 ksps | 2 | VREF, Temp Sensor | LGA85 | Si1024DK* |
| Si1037 | 16 kB | 25 | 4352 | 53 | I ² C, 2 x SPI, UART | 256 | 40 | -8 to +13 | -121/-110 | 17 | 30 | | 4 | 6 | ±2% | 12-bit, 16-ch., 75 ksps | 2 | VREF, Temp Sensor | LGA85 | Si1024DK* |

*See Wireless MCU Kit Table for full part number and frequency options

Turnkey Support

FIND THE EVALUATION TOOLS AND REFERENCE DESIGNS TO HELP YOU GET STARTED: www.silabs.com/wireless

Development Support

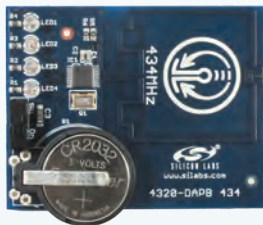
Silicon Labs offers complete tools to help designers throughout the entire project. The microcontroller, EZRadio® and EZRadioPRO® wireless solutions offer hardware and software platforms to easily set up and configure, compile and debug a project. Full documentation and a broad range of third-party compilers 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



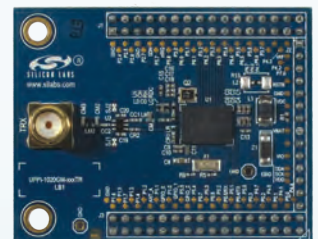
**Si4431/
C8051F342
EZRadioPRO®
USB DONGLE**



**Si4320 WIRELESS REMOTE
CONTROL DEMO BOARD**



**Si1000 TARGET BOARD
WITH EZRadio® TEST CARD**



**Si1020 UNIVERSAL
DEVELOPMENT PLATFORM
DAUGHTER CARD**

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 with less than 128 nodes. 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.

www.silabs.com/EZMac

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

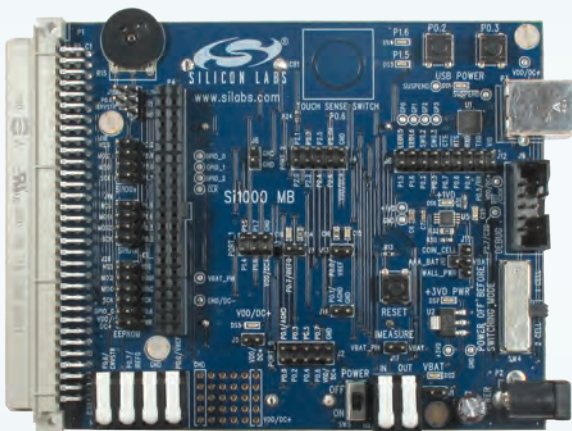
Wireless Development Suite

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.

www.silabs.com/WDS

Requirement :: Prototyping and Test

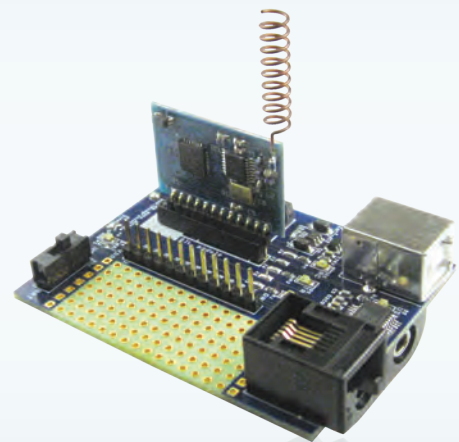
- Supports a family of TX, RX and TRX test cards
- Device config, save, and restore
- Custom scripting API
- Online device documentation
- Terminal window
- PC interface to evaluation boards



Si1000 WIRELESS MCU
TARGET BOARD



Si4010 EZRadio®
KEY FOB TRANSMITTER



EZLink®
DEVELOPMENT KIT

Development Kits

FIND THE EVALUATION TOOLS AND REFERENCE DESIGNS TO HELP YOU GET STARTED: www.silabs.com/wireless-devkits

Wireless MCU Development Kits

| PART NUMBER | DESCRIPTION | |
|------------------|---|--|
| Si1000DK | Si1000 Wireless MCU Development Kit | |
| Si1010DK | Si1010 Wireless MCU Development Kit | |
| Si1020-915-A-SDK | Si1020 915 MHz Software Development Kit | |
| Si1020-915-A-DK | Si1020 915 MHz Wireless Development Kit | |
| Si1024-868-A-SDK | Si1024 868 MHz Software Development Kit | |
| Si1024-868-A-DK | Si1024 868 MHz Wireless Development Kit | |

Wireless MCU Development Kit Test Cards

| PART NUMBER | TYPE | FREQUENCY | ANTENNA CONFIGURATION | |
|-----------------|---------------------|-----------|--|--|
| 1000-TCB1 C 915 | Si1000 TRX Testcard | 915 MHz | Single Switch Antenna Rev c/B1; +20 dBm | |
| 1000-TCB1 C 470 | Si1000 TRX Testcard | 470 MHz | Single Switch Antenna Rev c/B1; +20 dBm | |
| 1002-TCB1 D 868 | Si1002 TRX Testcard | 868 MHz | Single Tied Antenna Rev c/B1; +13 dBm | |
| 1002-TCB1 D 434 | Si1002 TRX Testcard | 470 MHz | Single Tied Antenna Rev c/B1; +13 dBm | |
| 1004-TCB1 D 868 | Si1004 TRX Testcard | 868 MHz | Single Tied Antenna Rev d/B1; +13 dBm, dc-dc | |
| 1004-TCB1 D 434 | Si1004 TRX Testcard | 434 MHz | Single Tied Antenna Rev d/B1; +13 dBm, dc-dc | |
| 1010-TAB1 C 915 | Si1010 TRX Testcard | 915 MHz | Single Switch Antenna Rev c/B1; +20 dBm | |
| 1010-TCB1 C 470 | Si1010 TRX Testcard | 470 MHz | Single Switch Antenna Rev c/B1; +20 dBm | |
| 1012-TAB1 D 868 | Si1012 TRX Testcard | 868 MHz | Single Tied Antenna Rev d/B1; +13 dBm | |
| 1012-TAB1 D 434 | Si1012 TRX Testcard | 434 MHz | Single Tied Antenna Rev d/B1; +13 dBm | |
| 1014-TAB1 D 868 | Si1014 TRX Testcard | 868 MHz | Single Tied Antenna Rev d/B1; +13 dBm, dc-dc | |
| 1014-TAB1 D 434 | Si1014 TRX Testcard | 434 MHz | Single Tied Antenna Rev d/B1; +13 dBm, dc-dc | |

Wireless MCU Development Kit Pico Cards

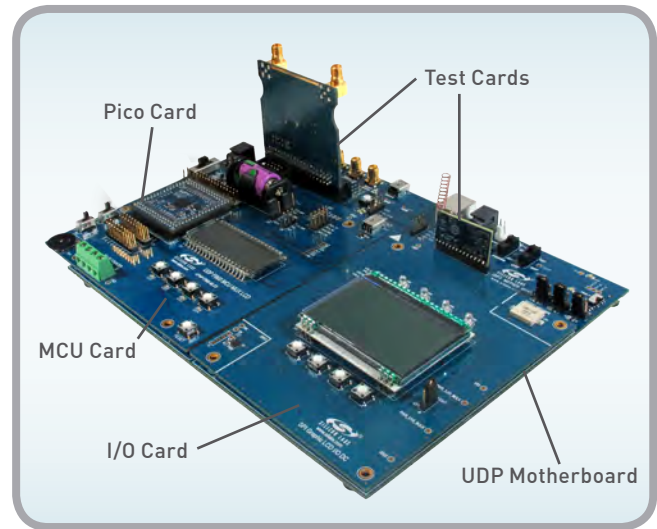
| PART NUMBER | FREQUENCY | DESCRIPTION | |
|--------------------|-----------|---|--|
| UPPI1020GM-A-915EK | 915 MHz | Si1020-GM 915 +20 dBm T/R switch pico board | |
| UPPI1024GM-A-868EK | 868 MHz | Si1024-GM 868 +13 dBm direct tie pico board | |
| UPPI1024GM-A-434EK | 434 MHz | Si1024-GM 434 +13 dBm direct tie pico board | |

Unified Development Platform

Silicon Labs offers an innovative, new approach in hardware support with the Unified Development Platform (UDP), featuring a unified mother board, modular boards, integrated LCD and ample real estate for prototyping, expansion and integration. The UDP provides a standalone demonstration and software development platform for the EZRadioPRO Wireless devices, Wireless MCU devices and all MCU products. Kits include UDP base boards and RF test cards. Additional test cards may be ordered if the 915 MHz or 868 MHz test cards don't satisfy the requirements for the end application. www.silabs.com/UDP

The UDP platform supports all of the following:

- MCU code and firmware development (IDE, Configuration Wizard, example codes etc.)
- RF design and optimization (WDS support, automatic board detection and firmware download, sample RF code, run-time PHY interface etc.)
- Networks and protocol stacks (such as the wireless M-Bus stack)



Wireless Radio Test Kits

| PART NUMBER | DESCRIPTION | |
|-----------------|---|--|
| 4010-DAAKF 434 | AES Wireless Automated Control Demo Kit | |
| 4010-DKKF 434 | Si4010 Wireless Automated Control Development Kit | |
| 4010-DASKF 434 | Wireless Remote Control Demo Kit | |
| WIRELESSMBUSEK | Wireless M-Bus Evaluation Kit | |
| EZLC-4421 HB | EZLink Kit; F930/Si4421 EZRadio High-Band (868/915 MHz) | |
| EZLC-4421 LB | EZLink Kit; F930/Si4421 EZRadio Low-Band (433 MHz) | |
| EZLC4432B1-D470 | EZLink Kit; F930/Si4432 rev B1 EZRadioPRO 470 MHz | |
| EZLC4431B1-D434 | EZLink Kit; F930/Si4431 rev B1 EZRadioPRO 434 MHz | |
| EZLC4431B1-D868 | EZLink Kit; F930/Si4431 rev B1 EZRadioPRO High-Band | |
| ISM-DATD2-915 | ISM Temp Demo (IA4221 Based (915MHz)) | |
| ISM-DK3 | ISM Development Kit 3 | |
| RF-to-USB-RD | Two board RF to USB Reference Design | |
| SDBC-DK3 | EZRadioPRO™ Wireless Development Kit using F930 | |
| 4311-DK1 | Si4311 Demo Board | |
| 4312-DK1 | Si4312 Demo Board | |
| 4421-DAELC HB | EZLink Module; F930/4421 High Band | |
| 4421-DAELC LB | EZLink Module; F930/4421 Low Band | |

Wireless Development Kits (cont.)

| PART NUMBER | DESCRIPTION | |
|-----------------|---|--|
| 4431-SEB1 D 868 | EZLink Module; F930/4431 High Band (rev e/B1) | |
| 4431-SEB1 D 434 | EZLink Module; F930/4431 Low Band (rev e/B1) | |
| 4432-SEB1 C 915 | EZLink Module; F930/4432 High Band (rev e/B1) | |
| 4432-SEB1 C 470 | EZLink Module; F930/4432 Low Band (rev e/B1) | |
| Si4463-915-DK | Si4463 Wireless Kit - 915 MHz Development Kit | |
| Si4461-868-DK | Si4461 Wireless Kit - 868 MHz Development Kit | |

EZRadio Development Kit Test Cards

| PART NUMBER | TYPE | FREQUENCY | ANTENNA CONFIGURATION | |
|-----------------|--------------------|-------------|-----------------------|--|
| 4313-T-B1 B ANY | Si4313 RX Testcard | 240-960 MHz | 50 Ohm | |

EZRadioPRO Development Kit Test Cards

| PART NUMBER | TYPE | FREQUENCY | ANTENNA CONFIGURATION | |
|-----------------|---------------------|-----------|--|--|
| 4432-T-B1 A 915 | Si4432 TRX Testcard | 915 MHz | Two antennas mounted at 90°; used to evaluate the embedded antenna diversity algorithm | |
| 4432-T-B1 B 915 | Si4432 TRX Testcard | 915 MHz | Separate TX and RX designed for lab testing (not recommended for range testing) | |
| 4432-T-B1 C 915 | Si4432 TRX Testcard | 915 MHz | Single tied antenna implemented with RF switch | |
| 4432-T-B1 C 868 | Si4432 TRX Testcard | 868 MHz | Single tied antenna implemented with RF switch | |
| 4432-T-B1 B 470 | Si4432 TRX Testcard | 470 MHz | Separate TX and RX designed for lab testing (not recommended for range testing) | |
| 4432-T-B1 C 470 | Si4432 TRX Testcard | 470 MHz | Single tied antenna implemented with RF switch | |
| 4432-T-B1 D 470 | Si4432 TRX Testcard | 470 MHz | Single tied antenna implemented with RF switch | |
| 4431-T-B1 B 868 | Si4431 TRX Testcard | 868 MHz | Separate TX and RX designed for lab testing (not recommended for range testing) | |
| 4431-T-B1 D 868 | Si4431 TRX Testcard | 868 MHz | Single tied antenna implemented without RF switch | |
| 4431-T-B1 B 434 | Si4431 TRX Testcard | 434 MHz | Separate TX and RX designed for lab testing (not recommended for range testing) | |
| 4431-T-B1 D 434 | Si4431 TRX Testcard | 434 MHz | Single tied antenna implemented without RF switch | |
| 4430-T-B1 B 950 | Si4430 TRX Testcard | 950 MHz | Separate TX and RX designed for lab testing (not recommended for range testing) | |
| 4430-T-B1 D 950 | Si4430 TRX Testcard | 950 MHz | Single Antenna implemented without RF switch | |
| 4330-T-B1 B 434 | Si4430 RX Testcard | 434 MHz | Single tied antenna | |

| PART NUMBER | TYPE | FREQUENCY | ANTENNA CONFIGURATION | |
|--------------------|---------------------|-----------|---|--|
| 4330-T-B1 B 470 | Si4430 RX Testcard | 470 MHz | Single tied antenna | |
| 4330-T-B1 B 868 | Si4430 RX Testcard | 868 MHz | Single tied antenna | |
| 4330-T-B1 B 915 | Si4430 RX Testcard | 915 MHz | Single tied antenna | |
| 4330-T-B1 B 950 | Si4430 RX Testcard | 950 MHz | Single tied antenna | |
| 4032-T-B1 B 915 | Si4430 TX Testcard | 915 MHz | Single tied antenna | |
| 4032-T-B1 B 470 | Si4430 TX Testcard | 470 MHz | Single tied antenna | |
| 4031-T-B1 B 868 | Si4430 TX Testcard | 868 MHz | Single tied antenna | |
| 4031-T-B1 B 434 | Si4430 TX Testcard | 434 MHz | Single tied antenna | |
| 4461-TSC14D868-EK | Si4461 TRX Testcard | 868 MHz | Si4461 +14 dBm radio test card | |
| 4460-TCE10D868-EK | Si4460 TRX Testcard | 868 MHz | Si4460 +10 dBm radio test card | |
| 4463-TCE20C868-EK | Si4463 TRX Testcard | 868 MHz | Si4463 +20 dBm radio test card | |
| 4463-TCE27F868-EK | Si4463 TRX Testcard | 868 MHz | Si4463 +27 dBm radio test card | |
| 4463-TSQ20D169-EK | Si4463 TRX Testcard | 169 MHz | Si4463 +20 dBm radio test card | |
| 4463-TSQ27F169-EK | Si4463 TRX Testcard | 169 MHz | Si4463 +27 dBm radio test card | |
| 4460-TCE10D434-EK | Si4460 TRX Testcard | 434 MHz | Si4460 +10 dBm radio test card | |
| 4463-TCE20B460-EK | Si4463 TRX Testcard | 460 MHz | Si4463 +20 dBm SPLIT radio test card | |
| 4463-TCE20C460-EK | Si4463 TRX Testcard | 460 MHz | Si4463 +20 dBm RFSWITCH radio test card | |
| 4463-TCE20C915-EK | Si4463 TRX Testcard | 915 MHz | Si4463 +20 dBm radio test card | |
| 4463-TCE30E915R-EK | Si4463 TRX Testcard | 915 MHz | Si4463 RFMD +30 dBm radio test card | |
| 4460-TCE30E915S-EK | Si4463 TRX Testcard | 915 MHz | Si4463 Skyworks +30 dBm radio test card | |



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- 1 Standard/certification
- 2 Frequency spectrum
- 3 One-way or two-way link

Wireless Product Selector

This tool will help you identify the right wireless product for your application. Simply make the selections that best describe your design, and the appropriate product with all supporting documentation, development software and hardware will be displayed.

In less than a minute, we'll match you to the right wireless product for your project!

Answer Summary:

1) Please select the appropriate standard:

- FCC (e.g. US market)
- ARIB (e.g. Japan market)
- ETSI (e.g. Europe market)

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Silicon Labs > Support > Competitor Cross Reference

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| Competitor Part Number | Competitor Name | Silicon Labs Part Number | Description | Documents | Buy Sample |
|------------------------|-----------------|------------------------------|----------------------------|----------------------------|---|
| AT90USB162 | Atmel | C8051F320 | USB MCU | Data Sheet | Sample Buy |
| AT90USB646 | Atmel | C8051F381-GM | USB MCU | Data Sheet | Sample Buy |
| ATmega165p | Atmel | C8051F702-GO | Capacitive touch sense MCU | Data Sheet | Buy |

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



ISO 9001

Quality Management System
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Environmental Management System
Design and Manufacture of Integrated Circuits
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ISO/TS 16949

Quality Management System for
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