

TEXAS INSTRUMENTS Wireless Modules



For a complete listing of Texas Instruments Low Power Wireless Development Tools visit www.mouser.com/ti

The CC1020 single chip transceiver and the CC1070 single chip transmitter provide extensive features and great flexibility, which make the chips suitable for a very large number of applications and system requirements. The CC1020 and CC1070 are especially suited for narrowband systems. The CC10x0EM evaluation kit used in combination with a CC1020-C1070DK development kit is primarily designed to make it easy for designers to evaluate transceiver and transmitter performance and in a minimum of time develop their own applications.

MOUSER STOCK NO.	Texas Instruments Part No.	Product Group	Price Each
595-CC1070EM-433	CC1070EM-433	SUB 1-GHz	60.00
595-CC1070EM-868	CC1070EM-868	SUB 1-GHz	68.34
839-1020EMXK-433	CC1020EMK-433	SUB 1-GHz	136.66
839-1020EMXK-868	CC1020EMK-868	SUB 1-GHz	129.14

- Evaluate the SmartRF®04 products. Right out of the box, the user can do range testing (PER testing) and transfer data from one PC to another using the SmartRF®04DK. This enables the user to quickly find out how well the SmartRF®04 products fit the intended application. A number of demonstration applications serve to highlight the innovative features of the SmartRF®04 ICs.
- Perform RF measurements. Using SmartRF® Studio, the user can configure the radio ICs with parameters that suit the intended application and easily measure sensitivity, output power and other RF parameters.

MOUSER STOCK NO.	Texas Instruments Part No.	Product Group	Price Each
595-CC1101DK433	CC1101DK433	SUB 1-GHz	537.02
595-CC1101DK868-915	CC1101DK868-915	SUB 1-GHz	537.02
595-CC1101EMK433	CC1101EMK433	SUB 1-GHz	106.55
595-CC1101EMK868-915	CC1101EMK868-915	SUB 1-GHz	106.55
595-CC2510EMK	CC2510EMK	2.4 GHz, SIMPLICITI	169.68
595-CC2511EMK	CC2511EMK	2.4 GHz, SIMPLICITI	52.74
839-1150EM-433	CC1150EMK-433	SUB 1-GHz	53.39
839-1150EM-868	CC1150EMK-868	SUB 1-GHz	53.39
839-2500/50DK	CC2500-CC2550DK	2.4 GHz	527.33
839-2500EMK	CC2500EMK	2.4 GHz	107.62

- Evaluate the CC1110Fx and CC1111Fx. Right out of the box, the user can do range testing (PER testing) between two development boards with or without using a PC. This enables the user to quickly find out how well the CC1110Fx fits the intended application. A number of demonstration applications serve to highlight the innovative features of the SmartRF®04 ICs.
- Perform RF measurements. Using SmartRF® Studio, the user can configure the radio ICs with parameters that suit the intended application and easily measure sensitivity, output power and other RF parameters.

MOUSER STOCK NO.	Texas Instruments Part No.	Product Group	Price Each
595-CC1110-CC1111DK	CC1110-CC1111DK	SUB 1-GHz	739.08

- Evaluate the SmartRF®04 products. Right out of the box, the user can do range testing (PER testing) and transfer data from one PC to another using the SmartRF®04DK. This enables the user to quickly find out how well the SmartRF®04 products fit the intended application. A number of demonstration applications serve to highlight the innovative features of the SmartRF®04 ICs.
- Perform RF measurements. Using SmartRF® Studio, the user can configure the radio ICs with parameters that suit the intended application and easily measure sensitivity, output power and other RF parameters.

MOUSER STOCK NO.	Texas Instruments Part No.	Product Group	Price Each
595-CC1110EMK433	CC1110EMK433	SUB 1-GHz	112.75
595-CC1110EMK868-915	CC1110EMK868-915	SUB 1-GHz	106.55

The CC259x RF Front End includes PA, LNA, switches, balun, RF matching network and inductor, and will increase output power and improve receiver sensitivity on a 2.4 GHz low-power RF solution. The CC2430 is an IEEE 802.15.4 compliant System-on-Chip with radio, MCU and Flash. The CC2430-CC259xEMK consists of two CC2430-CC259xEMK Evaluation Modules. These modules can be used together with a SmartRF®04 Evaluation Board to evaluate the chip, do RF testing and for prototyping. Also the output power can be increased to around +20dBm, and sensitivity will be improved by up to 6 dB compared with the CC2430 stand alone evaluation module. The CC2430-CC259xEMK should be used together with a SmartRF04E Evaluation Board, which is included in the CC2430DK Dev Kit.

MOUSER STOCK NO.	Texas Instruments Part No.	Product Group	Price Each
595-CC2430-CC2590EMK	CC2430-CC2590EMK	2.4GHz	105.70
595-CC2430-CC2591EMK	CC2430-CC2591EMK	2.4GHz	106.55

The CC2431EMK consists of two CC2431 Evaluation Modules. These modules can be used together with a SmartRF®04 Evaluation Board to evaluate the chip, do RF testing and for prototyping. Together with the PC software SmartRF® Studio it is easy to evaluate the chip. From SmartRF® Studio all register on the chip can be accessed and simple packet testing can be done between two boards. This allows for simple range testing between two PCs. It is also possible to use the packets sniffer software with this setup. The pin rows on the SmartRF®04EB can easily be connected to an existing system for prototyping.

MOUSER STOCK NO.	Texas Instruments Part No.	Product Group	Price Each
595-CC2431EMK	CC2431EMK	2.4GHz, 802.15.4 MAC	99.00

The CC2431ZDK is designed to deliver the most powerful elements for ZigBee™ development with the location engine in the market today. The kit is based on the CC2431 System-on-Chip, which includes the core of the CC2420 transceiver, an 8051 controller, 128 kByte flash memory and lots of useful peripherals. The hardware includes the content of the CC2430ZDK and the CC2431DK. The dedicated CC2431 hardware can easily be used for testing the location engine in ZigBee™ networks. Totally the kit includes 7 CC2430 boards that can be used for reference nodes in a network and 10 CC2431 boards that are able to calculate their own position as well as act as reference nodes.

MOUSER STOCK NO.	Texas Instruments Part No.	Product Group	Price Each
595-CC2431ZDK	CC2431ZDK	802.15.4 MAC, 2.4GHz, ZIGBEE-Software	1999.00

The CC2591 RF Front End includes PA, LNA, switches, balun, RF matching network and inductor, and will increase output power and improve receiver sensitivity on a 2.4 GHz low-power RF solution. The CC2520 is an IEEE 802.15.4 compliant RF transceiver.

MOUSER STOCK NO.	Texas Instruments Part No.	Product Group	Price Each
595-CC2520-CC2591EMK	CC2520-CC2591EMK	2.4GHz, ZIGBEE-Software	112.75

The CC2520 Development Kit includes hardware and software that allows quick testing of the CC2520 RF performance and offers a complete platform for development of advanced prototype RF systems and for evaluation of the CC2520 right out of the box. The kit can be used for range testing using the pre-programmed PER tester running on the MSP430F2618.

MOUSER STOCK NO.	Texas Instruments Part No.	Product Group	Price Each
595-CC2520DK	CC2520DK	ZIGBEE-Software	698.44

The eZ430-RF2480 Demo Kit™ is a complete USB-based MSP430 wireless demonstration tool providing all the hardware and software to evaluate the CC2480 2.4GHz ZigBee network processor and the MSP430F2274 microcontroller. Our demonstration kit has everything needed to understand and fully evaluate the capabilities of CC2480 in a short amount of time with minimal effort.

MOUSER STOCK NO.	Texas Instruments Part No.	Product Group	Price Each
595-EZ430-RF2480	EZ430-RF2480	ZIGBEE-Software	112.75

The eZ430-RF2500 is a complete wireless development tool for the MSP430 and CC2500 that includes all the hardware and software required to develop an entire wireless project with the MSP430 in a convenient USB stick. The tool includes a USB-powered emulator to program and debug your application in-system and two 2.4-GHz wireless target boards featuring the highly integrated MSP430F2274 ultra-low-power MCU.

MOUSER STOCK NO.	Texas Instruments Part No.	Product Group	Price Each
595-EZ430-RF2500	EZ430-RF2500	2.4GHz	55.80

The eZ430-RF2500-SEH is a complete Solar Energy Harvesting development kit to help create a perpetually powered wireless sensor network based on the ultra-low-power MSP430 microcontroller. The Solar Energy Harvester module includes a high-efficiency solar (2.25x2.25") panel optimized for operating indoors under low-intensity fluorescent lights, which provides enough power to run a wireless sensor application with no additional batteries. Inputs are also available for external energy harvesters such as thermal, piezoelectric, or another solar panel.

MOUSER STOCK NO.	Texas Instruments Part No.	Product Group	Price Each
595-EZ430-RF2500-SEH	EZ430-RF2500-SEH	2.4GHz	149.00

The eZ430-RF2500T is an additional wireless target board for the eZ430-RF2500 wireless development tool. The eZ430-RF2500T uses the MSP430F2274 which combines 16-MIPS performance with a 200-ksp/s 10-bit ADC and 2 op-amps and is paired with the CC2500 2.4 GHz multi-channel RF transceiver designed for low-power wireless applications.

MOUSER STOCK NO.	Texas Instruments Part No.	Product Group	Price Each
595-EZ430-RF2500T	EZ430-RF2500T	2.4GHz	22.78

The SmartRF®04DK Development Kit includes a number of functions and applications that allow quick testing of the RF interface and peripherals of the chip. *Evaluate the SmartRF®04 products. Right out of the box, the kit can be used for range testing.

- * User SmartRF® Studio to perform RF measurements.

MOUSER STOCK NO.	Texas Instruments Part No.	Product Group	Price Each
839-2430DK	CC2430DK	2.4GHz	540.00

The CC2430EMK consists of two CC2430 Evaluation Modules. These modules can be used together with a SmartRF®04 Evaluation Board to evaluate the chip, do RF testing and for prototyping. Together with the PC software SmartRF® Studio it is easy to evaluate the chip. From SmartRF® Studio all register on the chip can be accessed and simple packet testing can be done between two boards. This allows for simple range testing between two PCs. It is also possible to use the packets sniffer software with this setup.

MOUSER STOCK NO.	Texas Instruments Part No.	Product Group	Price Each
839-2430EMK	CC2430EMK	802.15.4 MAC, 2.4GHz	106.55

The CC2431DK Development Kit includes a sample application for location calculation and demonstration.

- Evaluate the SmartRF®04 products. Apply power to the boards and the plug and play kit can be used for range testing.
- User SmartRF® Studio to perform RF measurements.
- The radio can be easily configured to measure sensitivity, output power, and other RF parameters.

MOUSER STOCK NO.	Texas Instruments Part No.	Product Group	Price Each
839-2431DK	CC2431DK	2.4GHz, 802.15.4 MAC	995.00

CC2430 Demonstration board is based on TI's CC2430, a System-on-Chip solution for IEEE 802.15.4 and ZigBee™ applications. The CC2430DB includes many useful peripherals, e.g. light sensor, LEDs, joystick, potentiometer and accelerometer, which make it useful for prototyping. The CC2430DB can also be used as an In Circuit Emulator and programmer for custom boards. In addition to this it can be used as a packet sniffer together with TI's packet sniffer software to monitor traffic over the air.

MOUSER STOCK NO.	Texas Instruments Part No.	Product Group	Price Each
839-CC2430DB	CC2430DB	2.4GHz, 802.15.4 MAC	160.35

The CC2430ZDK is designed to deliver the most powerful elements for ZigBee™ development in the market today. The kit is based on the CC2430 System-on-Chip, which includes the core of the CC2420 transceiver, an 8051 controller, flash memory and lots of useful peripherals. The Sensor Network Analyzer from Daintree is bundled with this development kit. More than a sniffer, the SNA is a comprehensive and powerful solution that takes you from development through to testing, commissioning and maintenance.

MOUSER STOCK NO.	Texas Instruments Part No.	Product Group	Price Each
839-CC2430ZDK	CC2430ZDK	ZIGBEE-Software, 2.4GHz	1499.00

