▼ **Worldwide** (In English)

CC430 Wireless Development Tool Status: ACTIVE

EM430F6147RF900

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Description

The EM430F6147RF900 is a complete wireless development tool for the CC430 that includes all the hardware required to develop an entire wireless project. The sample kit includes two sub-1GHz wireless target boards (including antennas) featuring the highly integrated MSP430F6147IRGC RF System-on-chip. Projects may be developed and instantly deployed using the included batteries.

Note: the current version (v4.0) of the tool supports 868/915 MHz operation only.

The CC430 integrates the latest MSP430F5xx core (which combines 25 MHz performance with a 10-bit ADC, AES hardware security module and a 96 segment LCD driver) with theCC1101 multi-channel RF transceiver designed for low-power wireless applications.
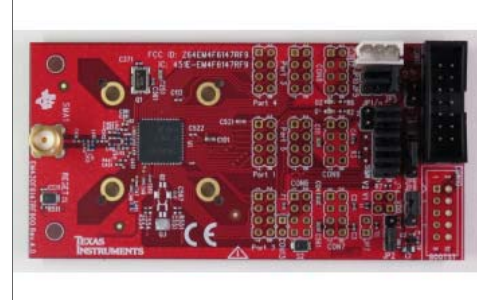
The EM430F6147RF900 development board supports all CC430F614x and flash parts in the 64-pin QFN (RGC) package. It also supports software development for the CC430F512x and CC430F514x parts (48-pin QFN (RGZ) package).

The SimpliciTI software stack (a proprietary low-power star network stack) for the CC430 will also be made available to interested developers, enabling robust wireless networks out of the box.

Disclaimers:

The EM430F6147RF900 is subject to export control regulations and restrictions
Please review the relevant datasheet and errata sheet for the MSP430F6147IRGC silicon prior to use.

A separate debugging and programming interface is required to work with the EM430F6147RF900. A flash emulation tool (FET) may be purchased independently (MSP-FET430UIF).

EM430F6147RF900 - CC430 Wireless Development Tool

Features

2 CC430 wireless target boards
2 868/915 MHz Antennas
2 CC430F6147

32KB Flash
4KB RAM
AES-128 hardware encryption module
Comparator_B
96 segment LCD Driver
1 USCI (UART, 2xSPI, I2C, IrDA)
10-bit ADC

2 LEDs / CC430 wireless target board
2 pushbuttons / CC430 wireless target board
18 4x2 pin headers
2 AAA battery packs with 2-wire power connectors
SimpliciTI, low power network stack on www.ti.com/corp/docs/landing/simpliciTI/index.htm
IAR Kickstart and Code Composer Studio which includes an assembler, linker, source-level debugger and limited C-compiler
Full documentation

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Part Number	Texas Instruments	Status	
EM430F6147RF900: CC430 Wireless Development Tool	TI eStore	ACTIVE	

Technical Documents

Application Notes (1)

Title	Abstract	Type	Size (KB)	Date	Views
Using a DC-DC Converter to Reduce Power (Current) Consumption In CC430 Systems	Read Abstract	PDF	4622	05 Jul 2011	472

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
MSP430(tm) Hardware Tools User's Guide (Rev. J)		PDF	7487	28 Jun 2012	16,090

Related Products

Development Tools (3)

Name	Part Number	Tool Type
Code Composer Studio (CCStudio) Integrated Development Environment (IDE) for MSP430	CCSTUDIO-MSP430	SW Development Tools, IDEs, Compilers
IAR Embedded Workbench Kickstart - Free 4KB IDE	IAR-KICKSTART	SW Development Tools, IDEs, Compilers
SmartRF Studio	SMARTRFTM-STUDIO	Calculation Tools

Design Kits & Evaluation Modules (1)

Name	Part Number	Tool Type
MSP430 USB Debugging Interface	MSP-FET430UIF	Evaluation Modules & Boards

TI Devices (9)

Part Number	Name	Product Family
CC430F5123	CC430F614x, CC430F514x, CC430F512x SoC With RF Core	MSP430™16-bit Ultra-Low Power MCUs
CC430F5125	CC430F614x, CC430F514x, CC430F512x SoC With RF Core	MSP430™16-bit Ultra-Low Power MCUs
CC430F5143	CC430F614x, CC430F514x, CC430F512x SoC With RF Core	MSP430™16-bit Ultra-Low Power MCUs
CC430F5145	CC430F614x, CC430F514x, CC430F512x SoC With RF Core	MSP430™16-bit Ultra-Low Power MCUs
CC430F5147	CC430F614x, CC430F514x, CC430F512x SoC With RF Core	MSP430™16-bit Ultra-Low Power MCUs
CC430F6143	CC430F614x, CC430F514x, CC430F512x SoC With RF Core	MSP430™16-bit Ultra-Low Power MCUs
CC430F6145	CC430F614x, CC430F514x, CC430F512x SoC With RF Core	MSP430™16-bit Ultra-Low Power MCUs
CC430F6147	CC430F614x, CC430F514x, CC430F512x SoC With RF Core	MSP430™16-bit Ultra-Low Power MCUs
TPS62730	Step Down Converter with Bypass Mode for Ultra Low Power Wireless Applications	DC/DC Converter (Integrated Switch)

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