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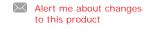All Searches　　Search by Keyword　[GO]　Search by Part Number　[GO]

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CC430 Wireless Development Tool Status: ACTIVE

EM430F6137RF900

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	EM430F6137RF900
Name	CC430 Wireless Development Tool
Status	ACTIVE
Price (US$)	$149.00
Host	N/A
OS	N/A
Current Version	v3.1
Version Date	21 APR 2009
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Product Information

Description

The EM430F6137RF900 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 XCC430F6137IRGC RF System-on-chip. Projects may be developed and instantly deployed using the included batteries.

Note: the current version (v 3.1) of the tool supports 868/915 MHz operation only.

The CC430 integrates the latest MSP430 5xx core (which combines 25 MHz performance with a 200-ksps 12-bit ADC, AES hardware security module and a 96 segment LCD driver) with the CC1101 multi-channel RF transceiver designed for low-power wireless applications.

The EM430F6137RF900 development board supports all CC430F613x and CC430F612x flash parts in the 64-pin QFN (RGC) package. It also supports software development for the CC430F513x 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 EM430F6137RF900 v 3.1 is not currently designed to pass regulatory radiation/emission tests
The EM430F6137RF900 is currently shipped with XCC430F6137 experimental silicon
The EM430F6137RF900 is subject to export control regulations and restrictions
Please review the relevant datasheet and errata sheet for the XCC430F6137 silicon prior to use

Features

2 CC430 wireless target boards
2 868/915 MHz Antennas
2 XCC430F6137
   32KB Flash
   4KB RAM
   AES-128 hardware encryption module
   Comparator_B
   96 segment LCD Driver
   1 USCI (UART, 2xSPI, I2C, IrDA)
   12-bit ADC, 200 ksps

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 Compose Essentials v3 Core Edition which include an assembler,
linker, source-level debugger and limited C-compiler
Full documentation

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Technical Documents

Most useful technical documents for EM430F6137RF900

User Guides

MSP430 Hardware Tools User's Guide (Rev. A) (PDF 15836 KB) 4500 views
25 Jun 2009

More Literature

SimpliciTI 1.1.0 [CC430 BETA] (ZIP 8289 KB) 169 views
26 May 2009

SmartRF Studio CC430 0.9.1 Beta (ZIP 17680 KB) 154 views
21 May 2009

CC430F613x, CC430F513x C Examples (IAR and CCE) (ZIP 248 KB) 471 views
21 May 2009

Related Products

Related Tools			
Name	Part#	Company	Tool Type
Code Composer Essentials v3.1 SR1- Free 16KB IDE	MSP-CCE430	Texas Instruments	Compilers/Assemblers/Linkers
MSP430 USB Debugging Interface	MSP-FET430UIF	Texas Instruments	Development Boards/EVMs
IAR Embedded Workbench KickStart - Free IDE	IAR-KICKSTART	Texas Instruments	Development Platforms
SmartRF Studio	SMARTRFTM-STUDIO	Texas Instruments	Software Tools

Related Devices		
Part#	Name	Product Family
CC1101	Low-Power Sub-1GHz RF Transceiver	Low Power RF ICs
CC430F5137	16-Bit Ultra-Low-Power MCU, 32KB Flash, 4KB RAM, CC1101 Radio, AES-128, 12Bit ADC, USCI	MSP430 16-bit Ultra-Low Power MCUs
CC430F6137	16-Bit Ultra-Low-Power MCU, 32KB Flash, 4KB RAM, CC1101 Radio, AES-128, 12Bit ADC, USCI, LCD Driver	MSP430 16-bit Ultra-Low Power MCUs

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