Low-Power Sub-1 GHz Wireless Transceiver

(ACTIVE) TIDM-LPBP-WIRELESSNODE ☆☆☆☆☆ No reviews yet. Add your review and give us feedback

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Description

The Low-Power Sub-1 GHz Wireless Transceiver reference design enables a low cost bi-directional RF link (when using two transceivers). The on-board Anaren Integrated Radio (AIR) A110LR09A radio module with integrated antenna operates in the European 868-870MHz and US 902-928MHz ISM bands. The included software application, called AIR BoosterStack, demonstrates an example sensor network as well as network status reporting. This type of communication allows development in the industrial, scientific, and medical space where short range devices/communications are used.*

Features

- Operates in the European 868-870MHz and US 902-928MHz ISM bands
- ETSI compliant and FCC/IC certified; ROHS and REACH compliant
- AIR BoosterStack software enables star network topology (one hub node; four sensor nodes)
- Low-power temperature sensor application
- Graphical User Interface provides network control and displays key radio parameters
- Node ID, operating state, and radio settings restored at power-up*

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Schematic/Block Diagram

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Design Guide

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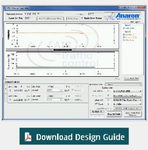

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Source Files

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

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Part Number	Buy from Texas Instruments or Third Party	Buy from Authorized Distributor	Status
430BOOST-CC110L: CC110L RF Module BoosterPack	$19.00(USD) In Stock Typically Ships in 1 to 3 Business Days Buy from TI	Pricing may vary. Buy from distributor	ACTIVE
MSP-EXP430G2: MSP430 LaunchPad Value Line Development kit	$9.99(USD) In Stock Typically Ships in 1 to 3 Business Days Buy from TI	Pricing may vary. Buy from distributor	ACTIVE

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TI Devices (5)

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Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
CC110L	Value Line Transceiver	Wireless Connectivity	Sample & Buy	View Design Kits & Evaluation Modules
MSP430F1612	16-bit Ultra-Low-Power MCU, 55kB Flash, 5120B RAM, 12-Bit ADC, Dual DAC, 2 USART,	Ultra-low Power	Sample & Buy	View Design Kits & Evaluation

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CAD/CAE symbols

Part #	Package | Pins	CAD File [.bxl]	STEP Model [.stp]
CC110L	(RTK) | 20	Download	-
MSP430F1612	LQFP (PM) | 64	Download	Download
	VQFNP (RTD) | 64	Download	-
MSP430G2452	TSSOP (PW) | 14	Download	Download
	VQFN (RSA) | 16	Download	-
	TSSOP (PW) | 20	Download	Download
TPD2E001	SOP (DZD) | 4	Download	-
	SOT (DRL) | 5	Download	-
	WSON (DRS) | 6	Download	-
	USON (DRY) | 6	Download	-
TPS77301	VSSOP (DGK) | 8	Download	Download

Texas Instruments and Accelerated Designs Inc. have collaborated together to provide TI customers with schematic symbols and PCB layout footprints for TI products.

Step 1: Download and Install the Ultra Librarian software ZIP: 62MB

Step 2: Download the Symbol and Footprint .bxl file.

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Technical Documents

Third party documents (1)

Title	Date	Type
Anaren Integrated Radio AIR Booster Pack Users Manual	17 Jun 2014	

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
MSP-EXP430G2 LaunchPad Evaluation Kit User's Guide (Rev. E)		PDF	886	06 Mar 2014	11,780

Design Files (4)

Title	Abstract	Type	Size (KB)	Date	Views
Low-Power Sub-1 GHz Wireless Transceiver PCB Layout Design Files		ZIP	150	17 Jun 2014	104
Low-Power Sub-1 GHz Wireless Transceiver Gerber Design Files		ZIP	133	17 Jun 2014	72
Low-Power Sub-1 GHz Wireless Transceiver Bill of Materials (BOM)		PDF	75	17 Jun 2014	99
Low-Power Sub-1 GHz Wireless Transceiver Schematic		PDF	37	17 Jun 2014	274

Applications

- Medical Meters: Portable
- Smoke Detector

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