Wireless Sensor Network (WSN) Development Kits | Analog Devices

WIRELESS SENSOR NETWORK (WSN) DEVELOPMENT KITS

Product Details	System Requirements	Related Software	EngineerZone Community

Product Details

The WSN development kits from Analog Devices allows customers to easily add remote sensing and monitoring capability to their products via a scalable wireless network. The hardware kit provides complete out-of-the-box functionality and includes a base station node along with multiple sensor nodes that support many different sensors. The system is flexible in that sensors can be connected in any combination to any of the sensor nodes. The out-of-the-box utility of the WSN development kits significantly reduces the time and effort required to move a customer's design from proof-of-concept phase to production release through the marriage of three Multi-Sensor Node Boards, a gateway connector, an emulator platform, and a full featured software package including the ADRadioNet robust but light-weight communication protocol stack and rich graphical user interface.

The system uses the 868MHz/915MHz ISM Band for wireless communication. The hardware blocks that make up the multi-sensor node boards include ADI sensor, microcontroller, transceiver, and power management products (see feature list below for more detail).

Less

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FEATURES

Wireless Sensor Network Development Kit – Bunch Version includes:

Two Multi-Sensor Node Boards which include the following components

- ADuCRF101 Integrated TRx + ARM Cortex M3 MCU
- ADT75 Temperature Sensor
- ADXL362 Ultra-low Power Triple Axis Accelerometer
- Humidity & Temperature Sensor (Sensirion SHT21)
- Photodiode + Ambient Light Sensor (Avago APDS-9005)
- Passive Infrared Sensor (Panasonic EKMB1201112)
- ADP160 Power Management device
- General Purpose Input Connector for other sensors (supports both analog and digital
- CR2032 Coin cell battery
- Form factor: 60mm x 33mm (2.4" x 1.3")

One Gateway Node

- ADuCRF101 Integrated TRx + ARM Cortex M3 MCU development system

One Emulator Platform for development and debugging

Wireless Sensor Network Development Kit – Cluster Version includes:

Three Multi-Sensor Node Boards which include the following components

ADF7024 Sub-GHz ISM band Transceiver

16-bit MCU (RL78-G13)

ADT75 Temperature Sensor

ADXL362 Ultra-low Power Triple Axis Accelerometer

Humidity & Temperature Sensor (Sensirion SHT21)

Photodiode + Ambient Light Sensor (Avago APDS-9005)

Passive Infrared Sensor (Panasonic EKMB1201112)

ADP160 Power Management device

General Purpose Input Connector for other sensors (support both analog and digital)

CR2032 Coin cell battery

Form factor: 60mm x 33mm (2.4" x 1.3")

One Emulator Platform for development and debugging

Related Software

ADRadioNet

EngineerZone Community

EngineerZone: Hardware Tools Community

Wireless Sensor Network (WSN) Development Kits   Print Table

Model	Description	Price	RoHS	View PCN/ PDN	Check Inventory/ Purchase/Sample
EV-ADRN-WSN-1Z Status: Production	Evaluation Board	$349.00	Yes	-	☐
EV-ADRN-WSN-2Z Status: Contact ADI	Evaluation Board	$349.00	Yes	-	☐

Pricing displayed is based on 1-piece. The USA list pricing shown is for budgetary use only, shown in United States dollars (FOB USA per unit), and is subject to change. International prices may vary due to local duties, taxes, fees and exchange rates.   **Check Inventory & Purchase**

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