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## 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).

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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

# Wireless Sensor Network (WSN) Development Kits | Analog Devices

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		Yes	-	<input type="checkbox"/>
EV-ADRN-WSN-2Z Status: Contact ADI	Evaluation Board		Yes	-	<input type="checkbox"/>

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.

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