EVAL-WSN

Wireless Sensor Network (WSN) Development Kits for Your IoT Solutions

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User Guides

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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

Markets & Technology

Aerospace and Defense

- Missiles and Precision Munitions
- Avionics
- Unmanned Systems

Applicable Parts

- ADT75
- ADXL362
- ADP160
- ADP5090
- ADUCRF101

View All

- 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
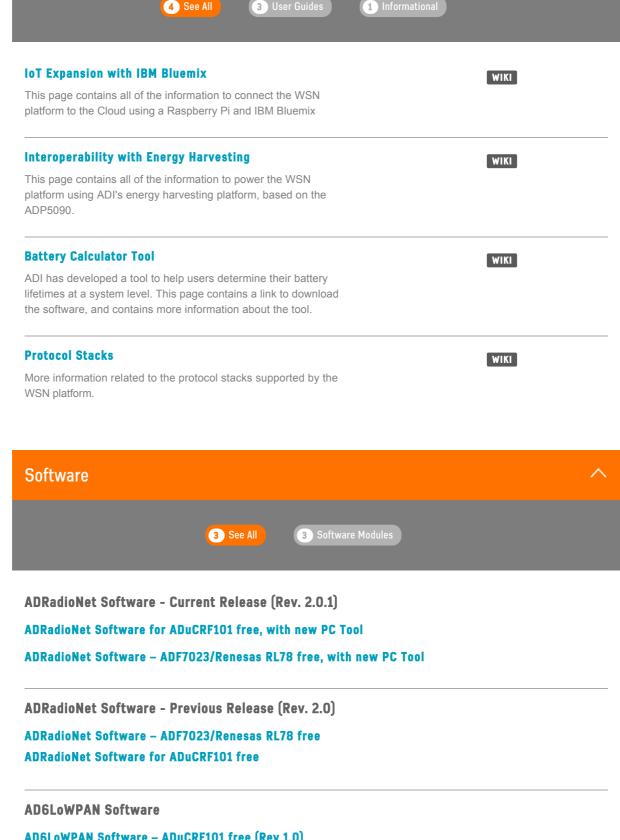- One Emulator Platform for development and debugging

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

Product Details

The Wireless Sensor Network (WSN) demo platform is a flexible, modular system for evaluating all aspects of a WSN. It offers both an out-of-the-box demonstration system, and can also be used as a development platform. It contains all of the hardware and software necessary to implement a plug-and-play WSN. The hardware 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 … Show More..

Documentation

IoT Expansion with IBM Bluemix

`WIKI`

This page contains all of the information to connect the WSN platform to the Cloud using a Raspberry Pi and IBM Bluemix

Interoperability with Energy Harvesting

`WIKI`

This page contains all of the information to power the WSN platform using ADI's energy harvesting platform, based on the ADP5090.

Battery Calculator Tool

`WIKI`

ADI has developed a tool to help users determine their battery lifetimes at a system level. This page contains a link to download the software, and contains more information about the tool.

Protocol Stacks

`WIKI`

More information related to the protocol stacks supported by the WSN platform.

Software ⌄

ADRadioNet Software - Current Release (Rev. 2.0.1)

ADRadioNet Software for ADuCRF101 free, with new PC Tool

ADRadioNet Software – ADF7023/Renesas RL78 free, with new PC Tool

ADRadioNet Software - Previous Release (Rev. 2.0)

ADRadioNet Software – ADF7023/Renesas RL78 free

ADRadioNet Software for ADuCRF101 free

AD6LoWPAN Software

AD6LoWPAN Software – ADuCRF101 free (Rev 1.0)

Discussions ⌄

Wireless Sensor Networks Support Community

Buy ⌄

Evaluation Boards

Pricing displayed is based on 1-piece.

Model	Description	Price	RoHS
EV-ADRN-WSN-1Z Production	Evaluation Board (Bunch Board)		Yes
EV-ADRN-WSN-2Z Production	Evaluation Board (Cluster Board)		Yes

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Pricing displayed is based on 1-piece. The

4,700+
Problem Solvers

125,000
Patents Worldwide

50+
Customers

Years

Analog Devices. Dedicated to solving the toughest engineering challenges.

Ahead of What's Possible

ADI enables our customers to interpret the world around us by intelligently bridging the physical and digital with unmatched technologies that sense, measure and connect. We collaborate with our customers to accelerate the pace of innovation and create breakthrough solutions that are ahead of what's possible.

See the Innovations

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