Jennic
TECHNOLOGY FOR A CHANGING WORLD

Jennic - JN5148-EK010 - Evaluation Kit

Product Overview:

Jennic's JN5148-EK010 ZigBee PRO evaluation kit provides a complete environment for the development of ZigBee PRO applications based on the JN5148 wireless microcontroller. The kit contains a complete package of hardware and software, including five wireless sensor nodes, an unrestricted software developer kit (SDK), and example code.

The SDK provides a complete set of development tools, software libraries and APIs (Application Programming Interfaces) for programming and controlling the on-chip peripherals of the JN5148, for configuring and managing the network and for data communication.

Out of the box, the hardware nodes are pre-programmed and demonstrate an example home sensor demo that monitors the state of sensors on the wireless nodes and presents this information on the controller node's LCD display.

Kit Contents:

In the JN5148-EK010 ZigBee PRO Evaluation Kit, you will find the following components:

- 1 Controller board with LCD and pre-installed module with uFl connector*
- 4 Sensor boards:

  - 2 with pre-installed module with uFl connector*
  - 2 with pre-installed module with integrated PCB antenna

- 2 high-power plug-in modules with uFl connector*
- 3 SMA-connector antennae
- 2 USB-to-Serial (FDTI) cables
- 1 pack of 10 AAA batteries for the boards

- Daintree Networks Sensor Network Analyser software CD
- Paper documentation, including Getting Started sheet and list of   IEEE/MAC addresses for modules

* All modules with uFl connectors are mounted on uFl-to-SMA adaptor boards.

Key Features:

- Complete SDK and network stack
- Stack and hardware "ZigBee Compliant Platform" certified
- Unrestricted development environment – no license fee
- Rapid application development and demonstration
- Application examples
- Profile support with increasing number of supported clusters
- Elliptic Curve Cryptography (ECC) library for Smart Energy security support available from Certicom
- Binaries for Daintree Sensor Network Analyser

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
JN5148-EK010	Jennic	1739333	NA

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
JN5148-001	Jennic	IEEE802.15.4 Wireless Microcontroller	1739339	33R0172
JN5148-001-M00	Jennic	ZigBee PRO and IEEE802.15.4 Wireless Microcontroller Module with an integrated antenna,	1739336	33R0173
JN5148-001-M03	Jennic	ZigBee PRO and IEEE802.15.4 Wireless Microcontroller Module with an antenna connector	1739337	33R0174
JN5148-001-M04	Jennic	ZigBee PRO and IEEE802.15.4 Wireless Microcontroller Module with an antenna connector, Power amplifier and LNA for extended range.	1739338	33R0175

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
JN5148-UG010	Jennic	ZigBee PRO Evaluation Kit	JN5148	1739334	33R0171

Document List:

Datasheets:

Part Number	Description	Size
JN5148	JN5148 Wireless Microcontroller Datasheet	910KB
JN5148-001-Myy	JN5148 Module Datasheet	375KB

Application Notes:

File Name	Size
IEEE 802.15.4 Remote Control	153KB
ZigBee PRO Home Sensor Demo	122KB
ZigBee PRO Application Template	71.3KB
ZigBee PRO Serial Cable Replacement	1.5MB
ZigBee PRO Wireless Light-switch	72.9KB

Hardware & Software:

File Name	Size
SDK Libraries Installer JN-SW-4040	64KB
JN-SW-4041 JN5148 ZBPro SDK Tool chain	63.7KB

Others Resources:

File Name	Size
JN-UG-3064 JN5148 ZigBee PRO SDK Installation Guide	63.7KB