MeshNetics®

Easy Wireless for Things

ZigBit™ Development Tools

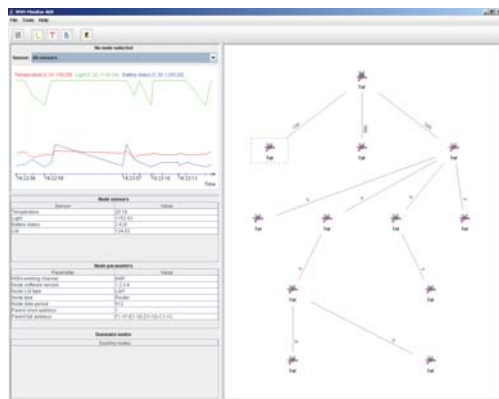## Easy-to-Use Tools for Evaluation and Development

MeshNetics offers the developers easy-to-use tools to evaluate the ZigBit 802.15.4/ZigBee module and develop a module-based wireless solution. **Development Kit** is a convenient way to assess range performance and power consumption of modules in-field. Development Kit also enables developers to write custom embedded applications using eZeeNet API. Each kit comes complete with everything you need to prototype, develop and deploy wireless applications based on ZigBit module platform.

ZigBit™ Development Kit (ZDK)

Developer's Tools to Create Custom Applications

- Sample applications to speed up application development
- Open source HAL to provide full programming support and integration of 3rd-party sensors
- Intuitive development environment from Atmel
- Convenient reference drivers and APIs for UART, I2C, ADC, and 1-wire interfaces
- eZeeNet API is 100% ANSI C99 compliant

MeshBean Development Boards

- Feature different antenna options: PCB, Dual Chip antenna, SMA connector
- Support standard extension connectors
- Include temperature, light sensors and other peripheral devices on board

Development Kit Contents:

- 3 x MeshBean development boards with sensors
- 3 x USB cables
- 2 x External interface cables
- 1 x software & documentation CD

eZeeNet: A Robust IEEE802.15.4/ZigBee Software Stack

- Conforms to ZigBee specification
- Tailored for easy-to-use networking in sensing, control, monitoring and data acquisition applications
- Supports mesh and tree network topologies

WSN Monitor: Network topology view

SerialNet: Serial AT Commands for Easy Application Prototyping

- Layered on top of eZeeNet IEEE802.15.4/ZigBee software stack
- Allows programming the board through AT-command serial interface
- No need to program the MCU directly
- Easy evaluation of eZeeNet stack functionality via AT-commands

WSN Monitor: Software for Sensor Networks Visualization

- Visualizes typical data acquisition scenario
- Allows easy evaluation of range and network performance, incl. self-healing feature
- Supports visualization of network topologies
- Allows remote network configuration from your PC

Support Packages

ZigBit Development Kit is offered with 2 support packages:

- **ZigBit Development Kit Lite** gives you access to standard evaluation and development tools and comes with 45 days of complimentary support. This option is good for product demonstration, platform evaluation and quick application prototyping.
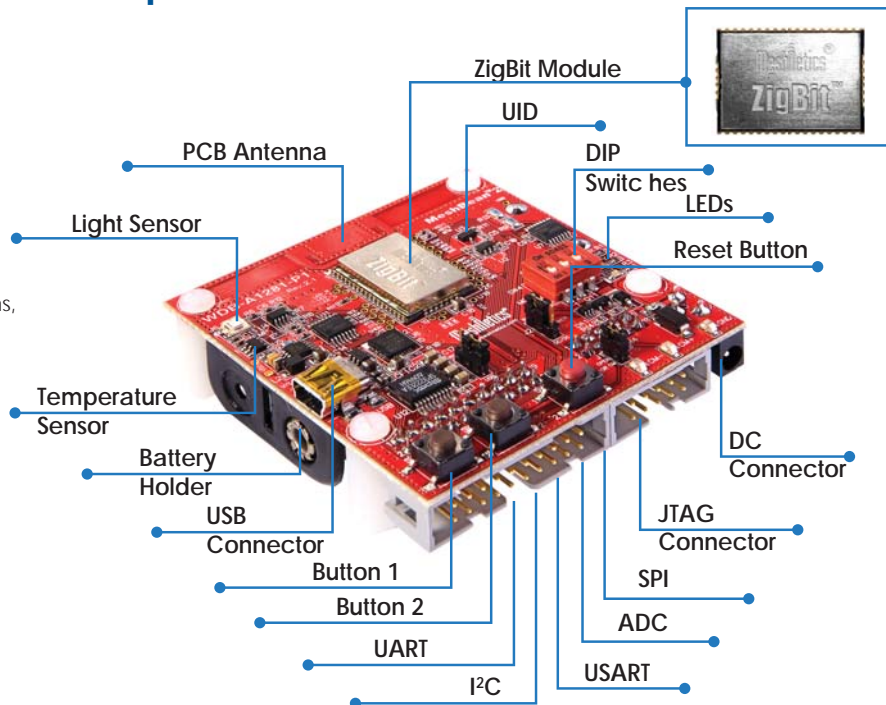
- **ZigBit Development Kit Complete** comes with 1 year of professional support which provides users with continuous software updates, dedicated design-in support, and RF design assistance. It's ideal for customers engaged in a full cycle of developing, prototyping, and launching innovative products made possible by MeshNetics ZigBit wireless platform.

ZDK Edition	Lite	Complete
Part Number	ZDK-A1281-LTE	ZDK-A1281-CPT
Support Duration	45 days	1 year
Hardware design support	+	+
RF design support	+	+
Software development support	+	+
Early software release access	-	+
Access to Gerber Files	-	+
Additional sample applications	-	+
Response time	72 h, workdays	72 h, workdays
Support channel	E-mail	E-mail
Price	$399	$899

MeshBean Development Board with Sensors

MeshBean Features

- 2-layer PCB board featuring ZigBit OEM module
- Three configuration options: PCB, Dual Chip antenna, SMA connector, based on ZigBit Module
- Input options include DIP switches + 3 buttons, 4 ADC connectors, I2C light sensor and temperature sensors
- Output via 3 LEDs
- Input/output via USB and JTAG connectors, USART, 1-Wire and 9 GPIO pins
- Power options include USB, 2 AA batteries or mains power

ZigBit Module
UID
DIP
Switc hes
LEDs
Reset Button
PCB Antenna
Light Sensor
DC Connector
Temperature Sensor
Battery Holder
USB Connector
JTAG Connector
Button 1
Button 2
SPI
ADC
UART
USART
I²C

ZigBee®Alliance FC CE
Industry Canada Industrie Canada ✓RoHS

Ordering Information

ZigBit Development Kit Lite
Part Number: ZDK-A1281-LTE
Description: Support option Lite

ZigBit Development Kit Complete
Part Number: ZDK-A1281-CPT
Description: Support option Complete

ZigBit Module Samples*

Part Number: ZDM-A1281-B0
Description: 2.4GHz IEEE802.15.4/ZigBee OEM Module
w/Balanced RF Port

Part Number: ZDM-A1281-A2
Description: 2.4GHz IEEE802.15.4/ZigBee OEM Module
w/Dual Chip Antenna

MeshBean Development Boards*

Part Number: WDB-A1281-P1
Description:
with ZDM-A1281-B0 Module

Part Number: WDB-A1281-A2
Description:
with ZDM-A1281-A2 Module

Part number WDB-A1281-E1
Description:
with SMA connector and external antenna

* - Additional MeshBean boards and module samples can be ordered separately

About the company

MeshNetics makes industry's smallest IEEE802.15.4/ZigBee modules with best-in-class range. All MeshNetics ZigBee networking software is free to download. MeshNetics is a single source of ZigBee modules, networking software, technical support, and design services to its clients, such as OEMs and system integrators. This combination of products and services enables faster time-to-market and significant cost savings for clients, working on ZigBee-based wireless sensing solutions in building automation, energy efficiency, HVAC, AMR, predictive maintenance, asset tracking and other application areas. For more information, please visit www.meshnetics.com.