MeshNetics®

Easy Wireless for Things

M2M 100 2008

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 BitCloud API. Each kit comes complete with everything you need to prototype, develop and deploy wireless applications based on ZigBit module platform.

ZDK Contents:

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

ZDK Amp Contents:

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

ZigBit™ Development Kit (ZDK)

and ZigBit™ Amp Development Kit (ZDK AMP)

- **Developer's Tools to Create Custom Applications**
  Sample applications in C to speed up application development
  Open source hardware interface layer and reference drivers
  Intuitive development environment from Atmel
  Comprehensive application notes and product tutorials

- **BitCloud: Full-featured ZigBee PRO Stack and Software Development Kit**
  A certified software development platform for reliable, scalable and secure wireless applications for ZigBit modules
  Enables full spectrum of software customization

- **SerialNet: Serial AT Commands for Easy Application Prototyping**
  Allows controlling the module through AT command serial interface
  Extension SDK to add custom commands
  No embedded programming experience required

- **WSN Monitor: Software for Network Visualization**
  Visualizes typical data acquisition scenario
  Offers easy way to evaluate range and network performance
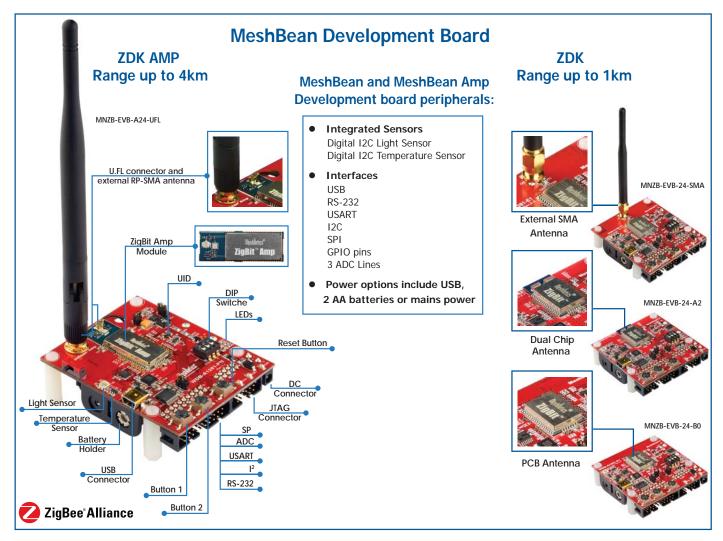 Allows remote network configuration from your PC

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. It also features early software release access, and additional sample applications, including sources for WSN Demo application, examples of API use, and more.

ZDK Edition	Lite	Complete
Part Number	MNZB-DKL-24 MNZB-DKL-A24	MNZB-DKC-24 MNZB-DKC-A24
Support Duration	45 days	1 year
Hardware design support	+	+
RF design support	+	+
Software development support	+	+
Early software release access	-	+
Access to Gerber Files	-	+
Access to bootloader source code	-	+
Additional sample applications	-	+
SerialNet Extensions	-	+
Support channel	E-mail, web	E-mail, web
Price	$399	$899

MeshBean Development Board

ZDK AMP
Range up to 4km

MNZB-EVB-A24-UFL

U.FL connector and
external RP-SMA antenna

ZigBit Amp
Module

UID

DIP
Switch

LEDs

Reset Button

DC
Connector

JTAG
Connector

Light Sensor

Temperature
Sensor

Battery
Holder

USB
Connector

Button 1

Button 2

SP
ADC
USART
I²
RS-232

ZigBee® Alliance

MeshBean and MeshBean Amp
Development board peripherals:

- **Integrated Sensors**
  Digital I2C Light Sensor
  Digital I2C Temperature Sensor
- **Interfaces**
  USB
  RS-232
  USART
  I2C
  SPI
  GPIO pins
  3 ADC Lines
- **Power options include USB,
  2 AA batteries or mains power**

ZDK
Range up to 1km

MNZB-EVB-24-SMA

External SMA
Antenna

MNZB-EVB-24-A2

Dual Chip
Antenna

MNZB-EVB-24-B0

PCB Antenna

Ordering Information

Kits	Part Number
ZigBit Development Kit Lite Support option Lite	MNZB-DKL-24
ZigBit Development Kit Complete Support option Complete	MNZB-DKC-24
ZigBit Amp Development Kit Lite Support option Lite	MNZB-DKL-A24
ZigBit Amp Development Kit Complete Support option Complete	MNZB-DKC-A24

MeshBean Development Boards*	Part number
Development Board with PCB antenna for MNZB-24-B0 module	MNZB-EVB-24-B0
Development Board with SMA antenna connector for MNZB-24-B0 module	MNZB-EVB-24-SMA
Development Board for MNZB-24-A2 module	MNZB-EVB-24-A2
Development Board with RP-SMA antenna connector for MNZB-A24-UFL module	MNZB-EVB-A24-UFL

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

Distributed by: