ZigBee Development Tools

ZigBee Developers Kit (ZDK)
ZigBee Network Evaluation Demo (zNED)



ZDK Description

Oki's ZigBee Developers Kit (ZDK) allows you to quickly evaluate and then seamlessly develop ZigBee wireless communications solutions. The key hardware element of the ZDK is the ZigBee Network Evaluation Demo (zNED) which features Oki's ML7065 radio chip, the ML67Q4061 ARM7-based MCU, and the MEMS-based 3D accelerometer ML8953. Two USB radio dongles are also included for a quick ZigBee network emulation by Windows based PCs. In addition to the run time libraries of the Oki's ZigBee Stack for ARM, a number of Oki's partners have provided evaluation versions of supporting software to make this a complete and powerful ZigBee development tool.



Kit Features

HARDWARE

- 1 Oki ZigBee Network Evaluation Demo board (zNED)
- 2 IEEE 802.15.4 USB radio dongles (Integration Associates: IA DAUB-DK1 2400)
- 1 IAR JLINK JTAG debugger

SOFTWARE

- Daintree's Basic Sensor Network Analyzer
- Evaluation versions of:
 - Integration's CompXs ZigBee stack for Oki's ARM7 based 4050/4060 series MCUs
 - Daintree's Professional Sensor Network Analyzer
 - IAR Embedded Workbench for ARM
 - Segger's embOS RTOS







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zNED Description

Oki's zNED is a ZigBee Certified Platform designed to be a part of the ZDK and is also offered stand-alone to allow you to add more nodes to your development network so you can adequately evaluate ZigBee for your application. In addition to a rich feature set, zNED's modular concept enhances your design flexibility by offering you the ability to plug in various radio boards and antenna choices as well as reuse the radio board in your proof of concept prototype.

Board Features

- Small size 3 3/8 x 2 1/2 inches
- Flexible power supply:
 - Batteries, USB (via JLINK) or user supplied power adapter
- Multiple sensor/user inputs
 - 3 momentary switches
 - Tri-axis MEMS accelerometer
 - Photo sensor
- · Multiple user output options
 - 3 LEDs
 - Magnetic Buzzer
 - RS-232 support
 - 2 line x 16 character display (user supplied)
- System Power management mode support
- Designed for reuse
 - Radio board is removable with standard 2mm headers to allow easy reuse in customer prototype projects
- 32-bit ARM7-TDMI based processor with 128 KB Flash and 16 KB RAM



Applications

- Industrial sensor and control networks
- Commercial security and access control systems
- Equipment diagnostics and asset tracking
- · Medical patient monitoring and diagnostic equipment

Ordering Information

Part #	Product Name
OKI-ZDK-01	ZigBee Developers Kit (ZDK)
OKI-zNED-01	ZigBee Network Evaluation Demo (zNED)
ML7065- 034GDA3A	ZigBee IEEE 802.15.4 Single Chip 2.4 GHz PHY and MAC