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Old Company Name in Catalogs and Other Documents

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Renesas Electronics website: <http://www.renesas.com>

April 1st, 2010
Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (<http://www.renesas.com>)

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ZIGBEE PRO™ EVALUATION KIT

NEC ELECTRONICS AMERICA

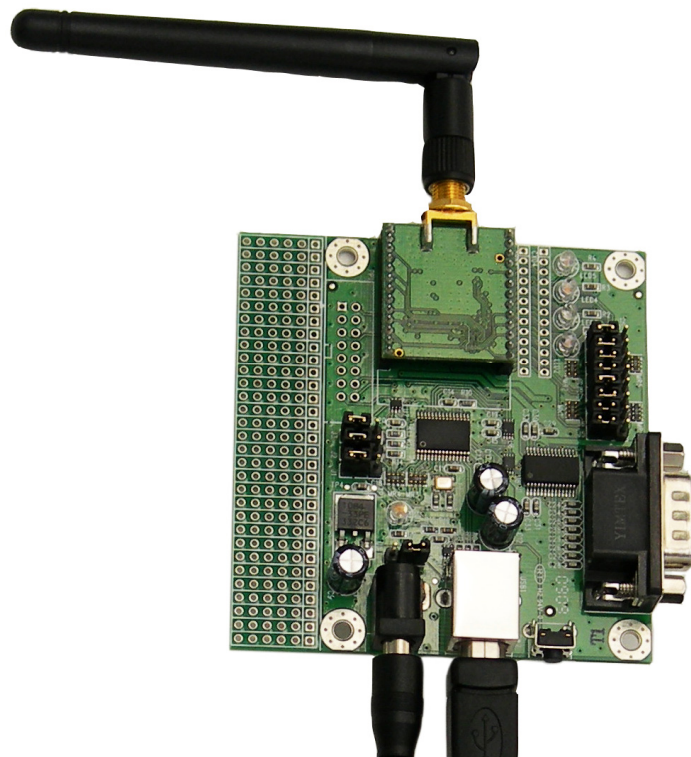
The IEEE 802.15.4 wireless network is used from a simple wireless sensor network to a sophisticated ZigBee Pro Smart Energy network.

NEC Electronics America, Inc. offers the ZigBee Pro Evaluation Kit to ease the prototyping and development of such networks. It includes three pre-programmed ZigBee Pro nodes to form a network. The ZigBee Pro nodes run the ZigBee Pro stack with the Home Automation Profile and Smart Energy Profile. This network can be visualized by VisualMesh running on a computer. Config Console is provided to enable simple configuration of the network parameters of each ZigBee Pro node without recompilation. When users are ready to develop their applications, an evaluation version of CubeSuite, the software development environment for the NEC Electronics microcontroller, is provided for application development.

DM-78K0RKE3-UZ

Key Features

- › Three separate pre-programmed ZigBee Pro nodes with each node comprising:
 - a module board equipped with a 16-bit K0R/KE3 MCU and an IEEE 802.15.4 radio
 - a debug board equipped with RS232 and USB interfaces for module programming, debugging and monitoring
 - a breadboard area for prototyping
- › ZigBee Pro software package including an evaluation version (5 nodes limit) of:
 - ZigBee Pro stack
 - Home Automation Profile
 - Smart Energy Profile
- › Network Software Tools
 - Visual-Mesh for visualization of the ZigBee Pro network
 - Config Console for simple configuration of the ZigBee Pro node
- › NEC Electronics Software Development Environment (evaluation version)
 - CubeSuite™ as the Integrated Development Environment (IDE) for NEC Electronics devices



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Key Benefits

- › This kit includes three pre-programmed ZigBee Pro nodes that would form an out-of-the-box ZigBee Pro network
- › All evaluation software is provided for evaluation and software development
- › Additional networking software tools enable quick configuration of the network
- › Modular design enables fast productization from prototyping

Target Applications

Wireless sensor networks, including:

- › Home Automation Networks
- › Smart Energy Networks

System Requirements

- › DVD ROM drive
- › Windows 2000, Windows XP or Windows Vista (32-bit)
- › 500 MB of available hard disk space
- › 500 MB of RAM

Ordering Information

Part number: DM-78K0RKE3-UZ

For device or tools availability and pricing,
contact an NEC Electronics America sales representative.

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