

ZigBee™ / 802.15.4

Application Kit

Key Features

- RabbitCore™ module running @ 22.1 MHz, and 10Base-T Ethernet. 512K Flash, 256K SRAM, 1MB Serial Flash as on-board memory, and 33 GPIO lines
- Three MaxStream® ZigBee wireless modules and cables for simple connections
- Sample programs and libraries that allow for simple digital I/O feedback and control, Ethernet to ZigBee gateway functionality, mesh networking communication
- RabbitWeb™ simplified html programming software with refresh mechanism
- User-friendly web interface for ZigBee/802.15.4 network setup, RF modem configuration, and firmware update functions.

Design Advantages:

- Reference application that uses a low-cost, low-power ZigBee 802.15.4 infrastructure to connect Rabbit-based devices
- Supports topologies: point-to-point, point-to-multipoint and mesh
- Easily scalable for commercial deployment applications
- RabbitCore can function as a network coordinator, gateway, or control device

Applications

- Low-cost wireless embedded control applications
- Ideal for remote monitoring of equipment, devices, assets
- Simple data logging applications
- Mesh networking control
- Wireless I/O Control
- Controlling XBee™ equipped devices



ZigBee/802.15.4 Application Kit - Control and communicate using a low-cost, low-power, embedded wireless solution

The ZigBee/802.15.4 Application Kit combines MaxStream's XBee RF modem with the popular RCM3720 RabbitCore module along with an easy-to-use interface to help customers build a practical ZigBee wireless control network. ZigBee paired with the RCM3720 provides a low-cost, robust wireless infrastructure that allows users to monitor and control remote devices within a wireless meshed network.

ZigBee™ is a wireless technology known for its reliable, low-cost, lower power characteristics, based on the established IEEE 802.15.4 standard for packet-based, wireless data transport. Rabbit's ZigBee/802.15.4 Application Kit provides all the tools to integrate a ZigBee wireless module into your Rabbit-based solutions.

The kit contains three MaxStream® ZigBee modules for full application reference. One ZigBee module is connected to

an Ethernet enabled RCM3720 RabbitCore Module. The RCM3720 runs at 22.1 MHz, and provides 10Base-T Ethernet. 512K Flash, 256K SRAM, 1MB Serial Flash as on-board memory, and 33 GPIO lines. The other two ZigBee modules are standalone node devices.

Samples, libraries and firmware helps to integrate a ZigBee network into a Rabbit-based embedded solution. A user-configurable interface allows users to

