

EasyBee / ZBMR10 Operational Description

Overview

EasyBee is an IEEE 802.15.4 compliant RF transceiver. The module contains all RF circuitry, including integral antenna. A 4-wire SPI port provides interface to a baseband microcontroller.

Physical Layer

The PHY (Physical) layer includes an impedance matched balun, integral antenna and screening can.

Medium Access Control Layer

The MAC (Media Access Control) layer includes CRC-16 generation, clear channel assessment, signal energy detection, security, encryption and authentication.

Key Constituent Components

EasyBee is based on the Texas Instruments CC2420 IEEE 802.15.4 transceiver. Further details of operation may be obtained by reading the CC2420 data sheet.