

ZR-BR-BMH-M ZR-BR-BMV-M ZigBee Module for OEM device



■ Key Features

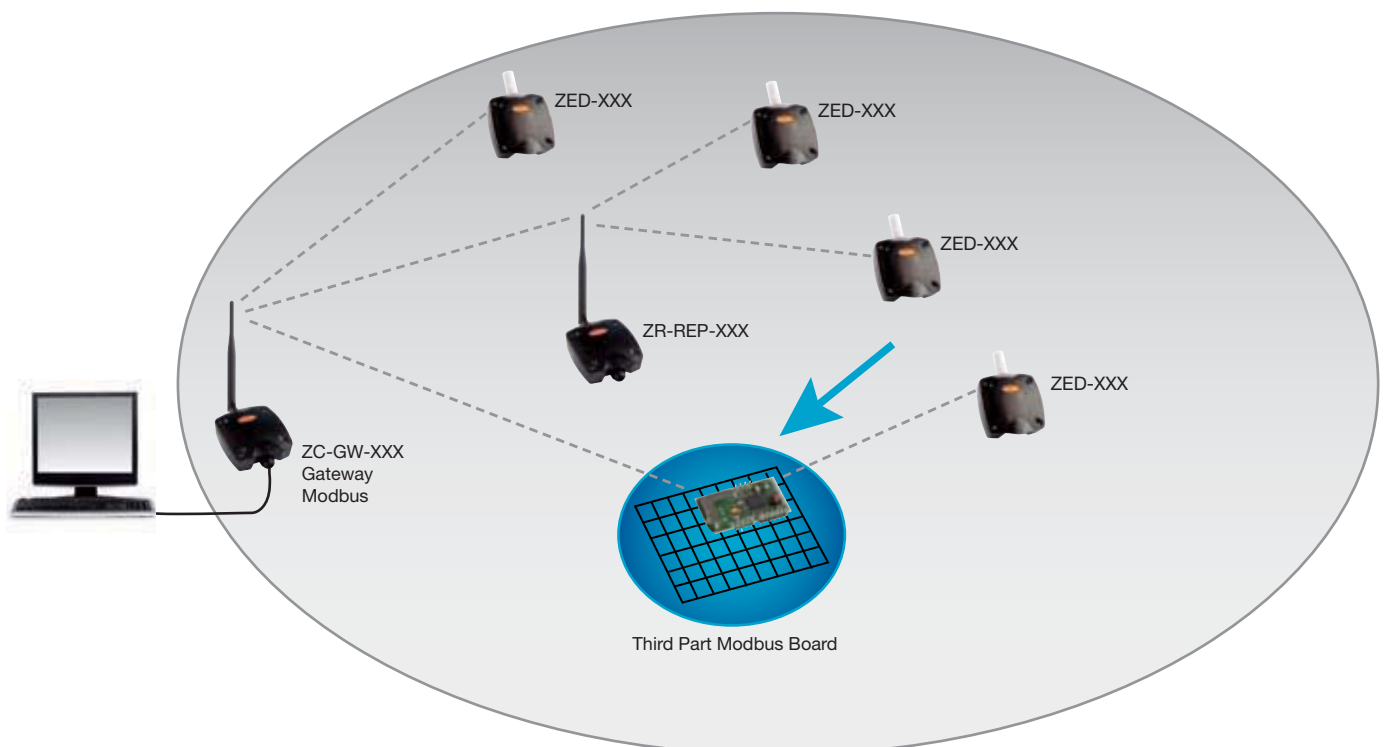
- No RF and ZigBee expertise requested
- Bridge function between the OEM device and the 4-noks ZigBee network
- Horizontal and vertical version
- Using Modbus/RTU protocol with TTL (3,3V) interface
- Routing function
- RF power 2mW
- Antenna on-board

The ZR-BR-BMH-M or ZR-BR-BMV-M modules can be integrated into any OEM device in order to connect that device to 4-noks ZB-Connection ZigBee network. No expertise in RF or ZigBee is requested.

The OEM device uses TTL interface with ModBus/RTU protocol of the ZR-BR-BMx-M to be connected through the 4-Noks Gateway and Repeaters to a remote PLC or PC/Scada. In this way the 4-noks module has the same bridge functions of the ZR-BR-485-EM and the OEM device acts as a slave device in a ModBus network.

Furthermore the module has routing function and it can act as a parent device for battery powered sensors.

■ Typical Application



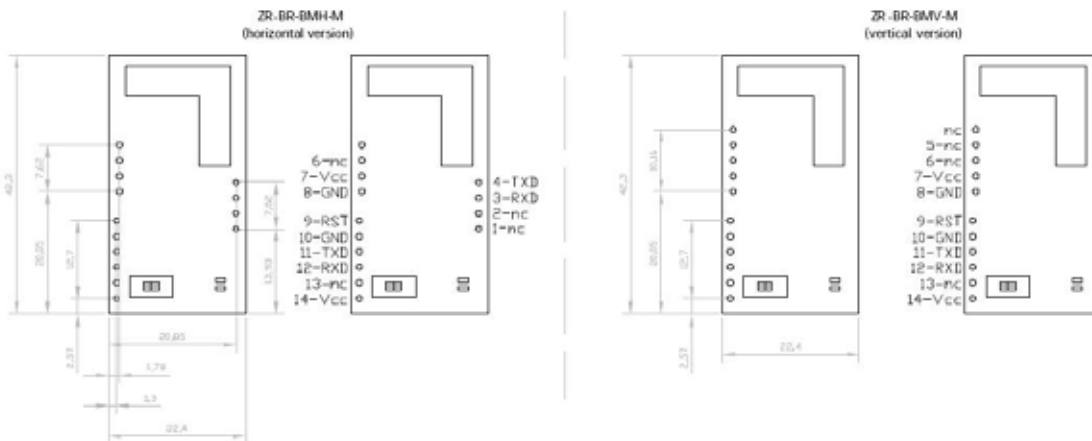
Technical Specs

General characteristics	Chip Ember EM2420 Compatible IEEE 802.15.4 Stack EmberZnet 3.4.x (ZigBee PRO) Modbus/RTU
RF characteristics	Frequency: 2405 MHz ÷ 2480 MHz Modulation: DSSS Nominal transmission power: 2mW (3 dBm) Reception sensitivity: -95dBm Internal antenna Gain: 0 dB Coverage outdoor/indoor: 100m/30m
Supply	3,3 Vdc (±10%); 50mA
Connections	Strip 2,54mm
Environment parameters	Operating temperature: -10 ÷ +60°C; <80% U.R. not condensing Storage temperature: -20 ÷ +70°C; <80% U.R. not condensing
Compliant with 2006/95/EEC, 89/336/EEC, 99/5/EEC directives Reference Norms:	ETSI EN 300 328: Radio Compatibility for digitals wide band transmissions ETSI EN 301 489: Radio Compatibility EN 61000-6-2: Electromagnetic Compatibility - Emissions EN 61000-6-3: Electromagnetic Compatibility - Immunity EN 60950-1: Electric Safety

Serial Communication Parameters

19200Baud, stop bits 2, no parity

Dimensions (mm)



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Connections

- Pin 1 - nc*
- Pin 2 - nc*
- Pin 3 - RXD - Asynchronous serial port - receiving pin
- Pin 4 - TXD - Asynchronous serial port - transmitting pin
- Pin 5 - nc*
- Pin 6 - nc*
- Pin 7 - Vcc - Supply +3,3V

- Pin 8 - GND - Ground
- Pin 9 - RSTB - Reset
- Pin 10 - GND - Ground
- Pin 11 - TXD - Asynchronous serial port - receiving pin
- Pin 12 - RXD - Asynchronous serial port - transmitting pin
- Pin 13 - nc*
- Pin 14 - Vcc - Supply +3,3V

*do not connect this pin



4-noks

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