



REXENSE

ZigBee/RS485 Converter

RD2000



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1. Overview

ZigBee/RS485 Converter is designed with standard RS485 header and ZigBee module board. The users can choose the most suitable type of module to install into it (default pre-installed with enhanced ZigBee module). A customer facility can be transferred to a ZigBee device when connected with ZigBee/RS485 converter for data collection and remote control. With appropriate software configuration, ZigBee/RS485 converter can act as a gateway or repeater, to provide users a series of easy-to-use options.

2. Applications

- Remote monitoring on devices for coal mine/oilfield
- Remote monitoring on devices for electricity and irrigation
- Automatic meter reading/Cable replacement
- Industrial/agricultural automatic control
- Smart control of buildings and street lights
- Wireless monitoring of control room/ Wireless access control
- Smart traffic/Smart meals system
- Wireless data transmission with GPRS



3. Product Specifications

Physical Specification

Dimension	Without Installation Support	69.16*67.00*23.00mm (L*W*H)
Weight	Main Part	90g
	Package weight	360g

Storage Specification

Storage Temperature	-65°C ~+150°C
Working Temperature	-40°C ~+85°C
Working Relative Humidity	≤80%

Electric Specification

Nominal Voltage	DC12V
Static Power Consumption	<800uA
Peak Power Consumption	<48mA

RF Specification

	ZigBee
Working Frequency	2.4Ghz
Receiving Sensitivity (1% PER)	-102dBm
TX Output Power	-32 to +20dBm adjustable
Communication Distance*	1500m
RF Data Rate	250kbps
Network Topology	Point-to-point, Star, Mesh
Security	AES 128-bit
Antenna Type	SMA

* The communication distance is measured under standard conditions in line of sight

4. Structural View

Top View

Side View

Functions of LEDs (from left to right)

5. Packing List

ZigBee/WiFi Gateway *1

DC12V Power Adapter *1

RS232 Cable *1

User's Manual *1

6. Ordering Information

Model No.	Description
RD1000	ZigBee/RS485 Converter
RD1100	ZigBee/USB Converter
RD2000	ZigBee/RS485 Converter
RD3000	ZigBee/Ethernet Gateway
RD4000	ZigBee/Wi-Fi Gateway
RD5000	ZigBee/GPRS Gateway

7. Contact Us

ZHEJIANG REXENSE TECHNOLOGY CO., LTD

Address: Room 105, No.7 Cuibai Road, Xihu District, Hangzhou 310012 P.R.China.

Tel: +86-571-85395623

Fax: +86-571-87987620

Email: intl@rexense.com; support@rexense.com

Website: www.rexense.com