

***REXENSE***

**ZigBee/RS232 Converter**

RD1000



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## **VERSION HISTORY**

V1.0.0	2010/06/4	1st issue of preliminary document
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## 1. Product Overview

ZigBee/RS232 Converter is designed with standard RS232 DB9 female header and ZigBee module board. The users can choose the most suitable type of module to install into it (pre-installed with enhanced DIP module by default). A customer facility can be transferred to a ZigBee device when connected with ZigBee/RS232 converter for data collection and remote control. With appropriate software configuration, ZigBee/RS232 converter can act as a gateway or repeater, to offer users a wide variety 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. Specifications

#### Physical Specification

<b>Dimension</b>	Without Installation Support	80*66*27mm (L*W*H)
	With Installation Support	107.5*66*27mm (L*W*H)
<b>Weight</b>	Main Part	160g
	Package weight	430g

#### Storage Specification

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

#### Electric Specification

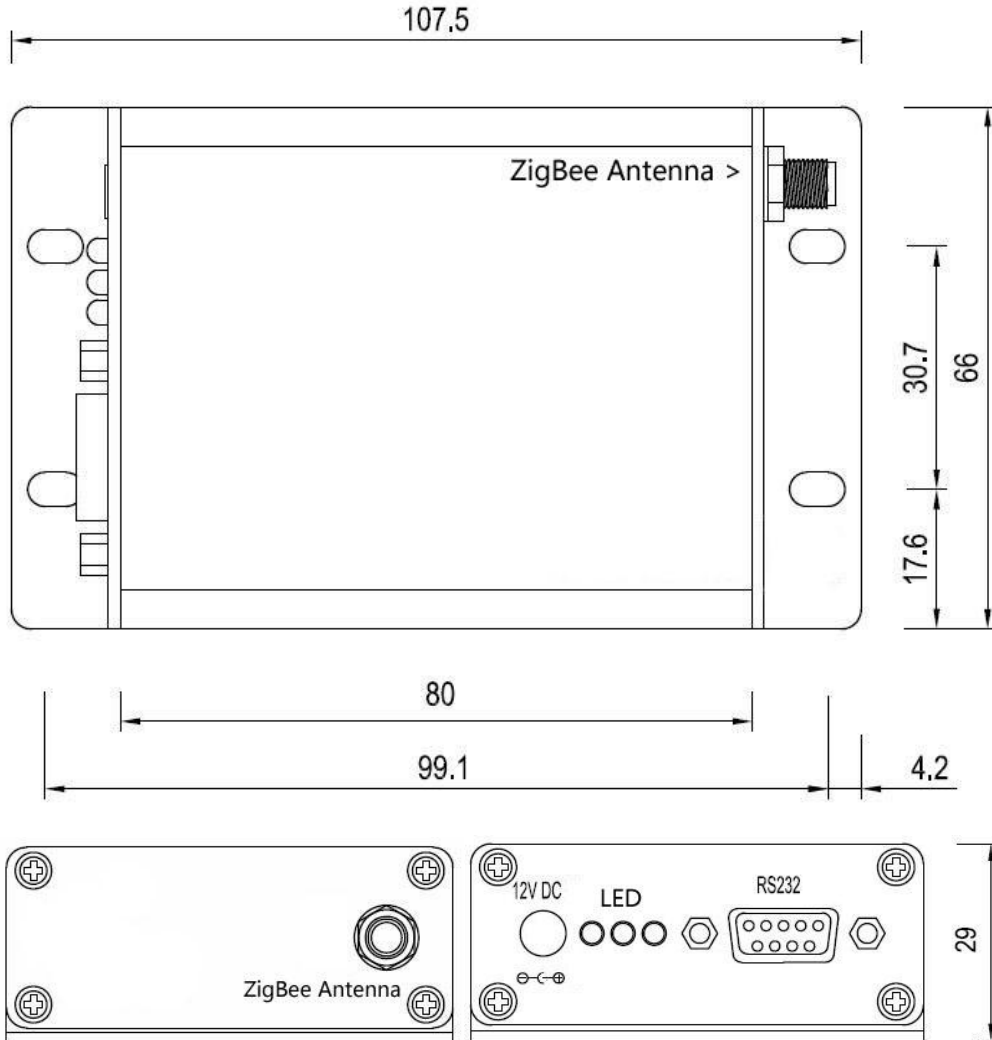
<b>Nominal Voltage</b>	DC12V
<b>Static Power Consumption</b>	<10mA
<b>Peak Power Consumption</b>	<60mA

#### RF Specification

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

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

## 4. Structural View



### Functions of LEDs (from left to right)

Power, Data Transmission

## 5. Packing List

ZigBee/RS232 Converter \*1

DC12V Power Adapter \*1

RS232 Cable \*1

User's Manual \*1

## 6. Ordering Information

Model No.	Description
RD1000	ZigBee/RS232 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](mailto:intl@rexense.com); [support@rexense.com](mailto:support@rexense.com)

Website: [www.rexense.com](http://www.rexense.com)