

Wireless Data Converter

Datasheet

Version 1.2

NETVOX TECHNOLOGY CO., LTD.

Add.: No. 21-1 Sec. 1 Chung Hua West Road, Tainan, Taiwan

Tel.: +886-6-2617641, 2654878

Fax.: +886-6-2656120

<http://www.netvox.com.tw>

History

Version	Date	Note
V1.0	2010-6-12	Create
V1.1	2011-11-22	Update hardware
V1.2	2017-6-10	New model ZL01J

Notes:

Hardware version (mainboard): V1.3

Copyright©Netvox Technology Co., Ltd.

This document contains proprietary technical information which is the property of NETVOX Technology and is issued in strict confidential and shall not be disclosed to others parties in whole or in parts without written permission of NETVOX Technology.

The specifications are subjected to change without prior notice.

Introduction



Figure 1 ZL01 Appearance

(the appearance of the picture is different depending on the interface, subject to the actual thing)

The ZL01 is a ZigBee network device that communicates with other interfaces (RS232, RS485, RJ45, USB, GPIO) devices and acts as a gateway for communication between ZigBee networks and other devices. Users can manage and control other devices through the local PC . The ZL01 integrates the ZigBee Pro module (optional EM250/EM357/CC2530 platform modules) which is a 2.4GHz ISM band transceiver, and is fully compatible with the ZigBee Pro protocol. ZL01 in ZigBee network as a router or a coordinate use .

According to different external interfaces, ZL01 is divided into several models.

ZL01A - RS-232 interface

ZL01B - RS-485 interface

ZL01C - RJ45 interface

ZL01D - GPIO interface

ZL01E - USB interface

ZL01F - RS-232 interface

ZL01J——RS-485 interface (used with Daikin air conditioner)

Main characteristics

- Compliant with ZigBee Pro™ protocol for ZigBee intelligent network
- Meets industrial equipment standards
- Use the 2.4GHz ISM band for a total of 16 channels
- Working voltage: +5V/DC
- Antenna type: external I-PEX connector antenna

Electrical characteristics

Working power source	+5VDC
Overall quiescent current	11mA
Working current	400mA (maximum)

ZigBee frequency characteristics

Frequency bandwidth	2.4 to 2.4835 GHz
Communication channel	16 (ISM 11th to 26th channels)
Power output	7 dBm /19dBm (maximum)
Receiving sensitivity	-101 dBm
Antenna type	External rod antenna
Communication distance	150 m / 800 m (depending on the module used in different models)
Data transfer rate	250Kbps
Modulation system mode	DSSS (O-QPSK)

Physical characteristics

Main unit casing size	110 mm x 55 mm x 20 mm
Operating temperature	-10°C to 50°C
Storage temperature	-40°C to 85 °C