Datasheet

Rev. 0.2

Oct. 11 2016

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.

Fig.1 Z207 Appearance

Introduction

Z207 is a Wireless Smart Home Controller. It is equipped with ZigBee, and Cloud technology. As the main character of Netvox Smart Home Cloud Platform, Z207 provides Cloud services and ZigBee network communication. The Z207 acts as a coordinator in the Zigbee network and can be automatically screened and configured. Users are able to control the ZigBee network devices through Z207 with mobile App. Netvox Smart Home Cloud service allows users to remotely control home devices anytime and anywhere to achieve low power consumption and environmental protection.

Application areas

Widely used for home and commercial purpose.

Main features

• Comply with ZigBee Pro^{TM} Agreement; base on ZigBee HA profile
• Support Netvox Cloud system
• Support up to 20 Zigbee devices
• 2.4GHz ISM band transceiver, total 16 channels
• Up to 210 meters transmission distance
• Easy installation and configuration

Technical Parameters

Hardware description

	Description	**Note**
Main chip	RTL8196EU	Realtek
DDR1	32MB	
Flash	16MB	
Ethernet port	One RJ45 port(WAN)	
USB interface	USB 2.0	
ZigBee	Ember EM357	Netvox
LED indicator	Cloud/ZigBee	
Reset button	Touch switch	
Power Adapter	Input：100～240VAC Output：5V/500mA DC	

LED Indicator

Indicator	**Status**	**Describtion**
Cloud	Brightness	Connected
	Slow blinking	Disconnected
	Rapid blinking	Data transmission
ZigBee	Brightness	Connected
	Darkness	Disorganization
	Blinking	Permit Join

Button

	Describtion
Reset	Short press 1 second, the device restart. Press and hold for 5 seconds, the device returns to factory settings and restart.

Electric Parameters

Power Adapter	Input：100～240V AC Output：5V/500mA DC
Power consumption	5V/0.12A/0.6W (Typical value）

Frequency Parameters

Frequency range	2.4 ～ 2.4835 GHz
Channel numbers	16 (ISM 11~26 channels)
Bandwidth	2 MHz
Antenna type	Build-in PCB antenna
TX power	7 dBm
Communication range	210m(line-of-sight)
Rx sensitivity	-99dBm
Data transfer rate	250 Kbps
Spread technique	DSSS（O-QPSK）

Physical Parameters

Dimension	76.5mm * 37.0mm * 22.0mm
Shell material	UL 94V-0
Working Temp.	-10℃～50℃
Storage Temp.	-20℃～60℃
Working Humidity	0～95%RH
Storage Humidity	0～95%RH