Cloud-Based Wireless Smart Home Controller

Cloud-Based Wireless Smart Home Controller Z206 Data Sheet

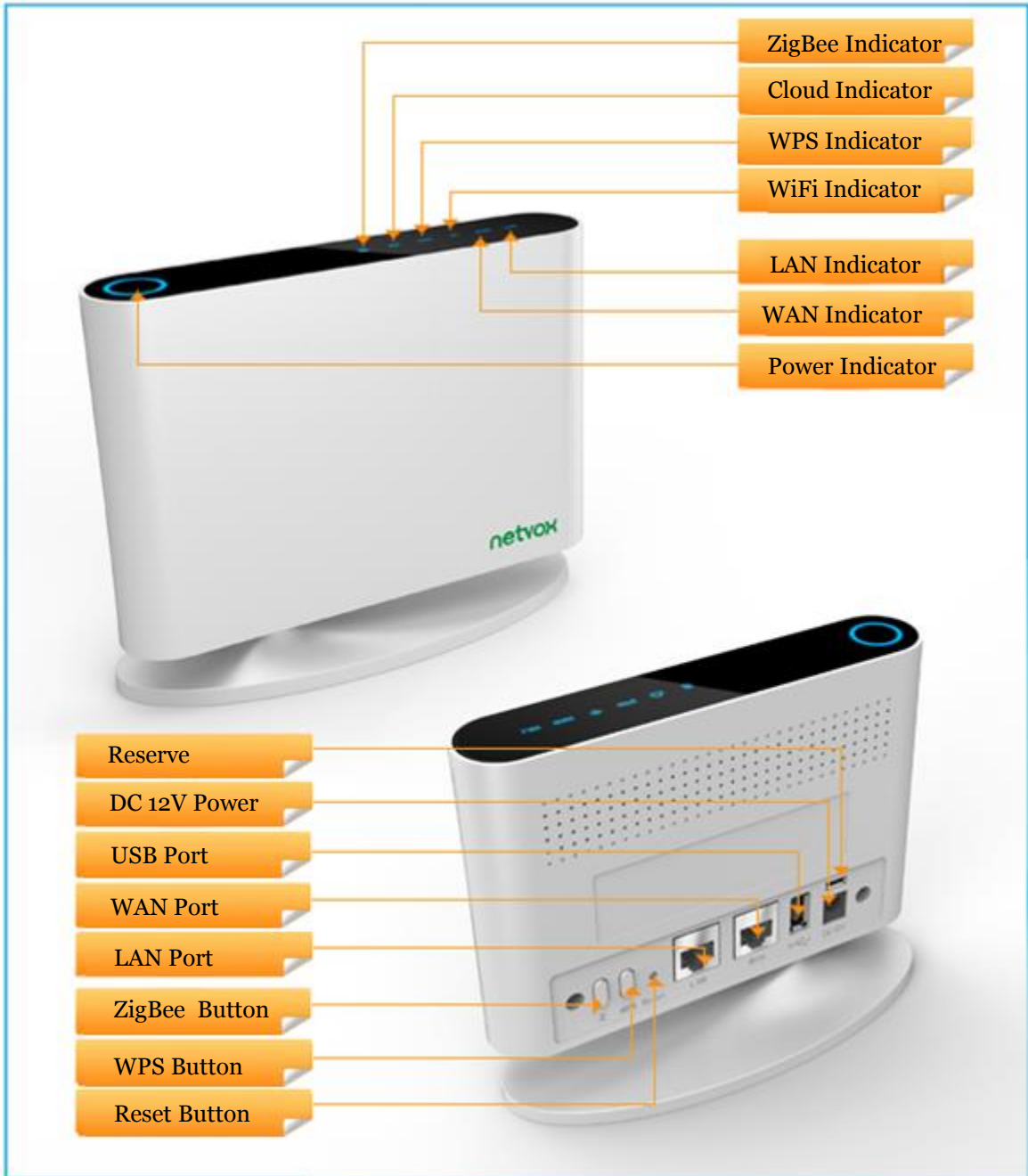Wireless Sensor Network Based on ZigBee Pro™ Technology

Z206

Cloud-Based Wireless Smart Home Controller

ZigBee Indicator

Cloud Indicator

WPS Indicator

WiFi Indicator

LAN Indicator

WAN Indicator

Power Indicator

Reserve

DC 12V Power

USB Port

WAN Port

LAN Port

ZigBee Button

WPS Button

Reset Button

Z206 Appearance

Cloud-Based Wireless Smart Home Controller

General Description

Z206 is a smart gateway for smart home system. As the core of the entire smart home system, Z206 is the first to achieve the perfect combination of cloud technology, WiFi mobile networking technology and ZigBee Internet of Things. Z206 acts as a coordinator in the ZigBee network and can be automatically screened and configured. Third-party software can control the device through it, for example, the Android client side can achieve mode control. At the same time, users can monitor all the changes in the home through the cloud access Z206, and easily realize the real remote control of smart home, and achieve the functions of energy saving, emission reduction and green environmental protection.

Example Applications

- Smart Home
- Smart Office

Main Characteristics

- Compliant with ZigBee Pro™ protocol. Support Netvox ZigBee network.
- Support Netvox Cloud
- Support USB dongle
- Support IEEE 802.11b/g/n
- 2.4GHz ISM band. ZigBee has a total of 16 channels
- Wifi has 11.13.14 channels
- Support Gateway mode
- Define a networked device as a ZigBee coordinator to avoid interference
- Two RJ-45 data interfaces
- ZigBee communication distance are 210 meters, Wifi communication distance are 250 meters (depending on the specific environment)
- Simple operation through third-party software control

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Technical Specifications

Hardware Description

	Description	Remarks
Main Chip / WiFi	MT7620A	Ralink Mediatek
Flash	32MB	
DDR2	128MB	
ZigBee	Z100B（Ember EM357）	Netvox
Ethernet Port	Two RJ45 port(LAN/WAN)	
USB Port	USB 2.0	
LED Indicator	Power/LAN/WAN/Wifi/Cloud/WPS/ZigBee	
Adjustment Port	UART 4pin Pin Header	
Reset Button	Tact Switch	
Power Adapter	Input：100～240V AC Output：12V/1.5A DC	

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Indicator

Indicator	Status	Description
Power	On	Power on
	Off	Power off
LAN	On	Connected
	Off	Not connected
	Flash	Data Transmitting
WAN	On	Connected
	Off	Not connected
	Flash	Data Transmitting
Wifi	On	Wifi On
	Off	Wifi Off
	Flash	Data Transmitting
WPS	Off	Turn off WPS
	Flash	Turn on WPS
	On	WPS connected
ZigBee	On	Successful networking building
	Off	Network is not built
	Flash	Permit network joining

Button

Button	Description
ZigBee	Press to permit network join. Press again to turn off this function.
WPS	Press to turn on WPS function.
Reset	Press and hold for five seconds to reset the device.

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Electric

Power	Input：100～240V AC
	Output：12V/1.5A DC
Power Consumption	2.2W（28mA @230V 50Hz）（Typical）

Frequency

	ZigBee	Wifi
Frequency Range	2.4～2.4835 GHz	2.4～2.4835 GHz
Channel Numbers	16 (ISM 11~26 channels)	11, 13, 14 Ch1—2412MHz Ch2—2417MHz Ch3—2422MHz ～ Ch14—2477MHz
Bandwidth	2MHz	20/40MHz
Antenna Type	Build-in PCB antenna	Build-in PCB antenna
TX power	7dBm （Max.）	16.5dBm（Max.）
Communication Range	210M（the actual transmission distance depends on the environment.	250M（the actual transmission distance depends on the environment.）
Rx Sensitivity	-100dBm	-75.5dBm
Data Transfer Rate	250Kbps	>120Mbps
Spread Technique	DSSS（O-QPSK）	DSSS

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Physical Parameters

Dimension	124mm * 155mm * 65mm
Shell material	PC510
Working Temp.	-10℃～50℃
Storage Temp.	-20℃～60℃
Working Humidity	0～95%RH
Storage Humidity	0～95%RH

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