netvox™

ZigBee™-On/Off Output with Mechanical Switches

On/Off Output With Mechanical Switches

User Manual

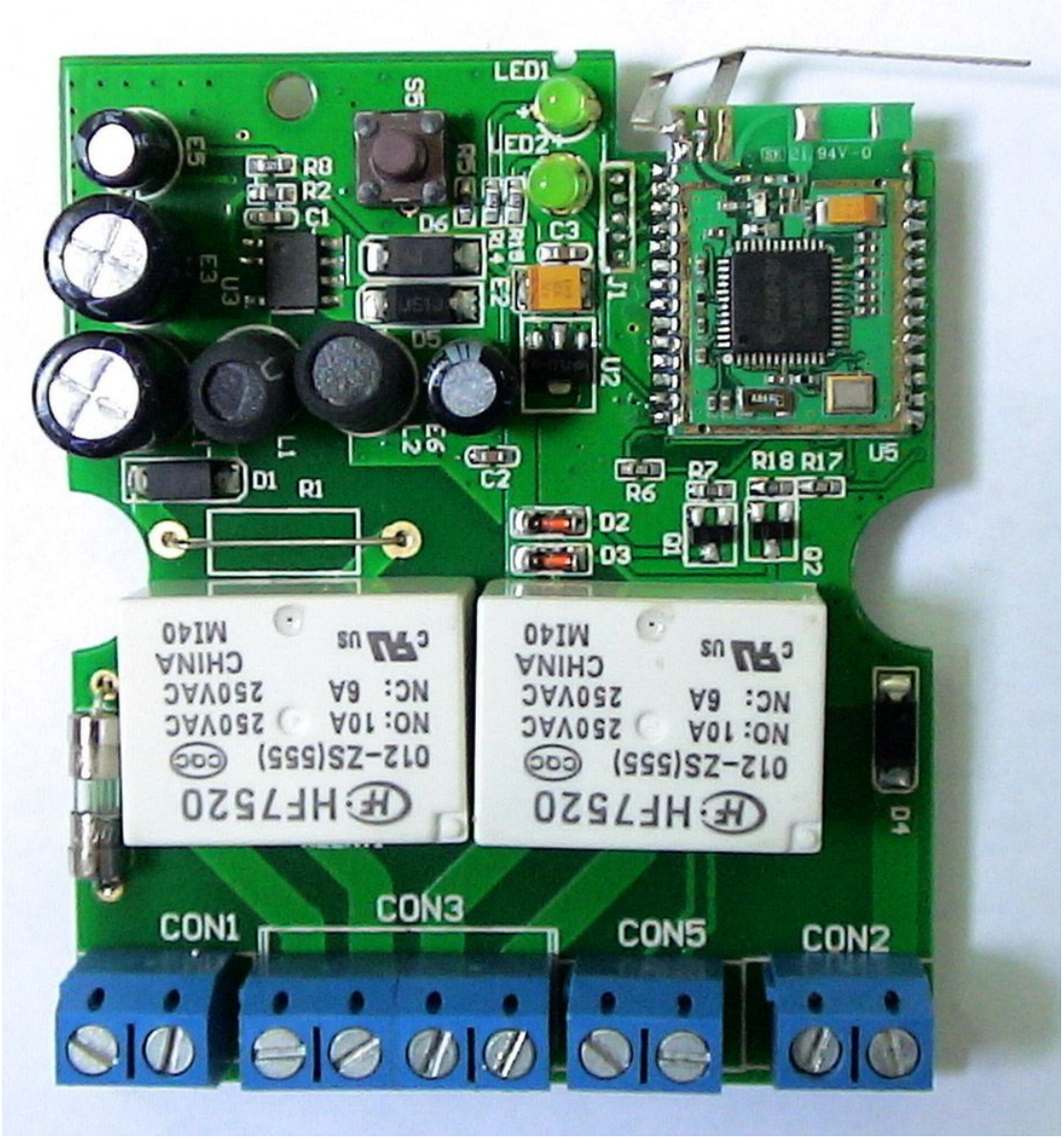
Content

1.Introduction

Z802 is a dual channel power output. It allows user using a ZigBee enabled remote controller to wirelessly switch On/Off the load such as light switch attached to it. User is also able to control Z802 through application software like Netvox ZiG-BUTLER.

It is based on ZigBee HA profile and applicable to any ZigBee HA network. It can communicate with router, coordinator, and other end devices in the network.

2.Appearance



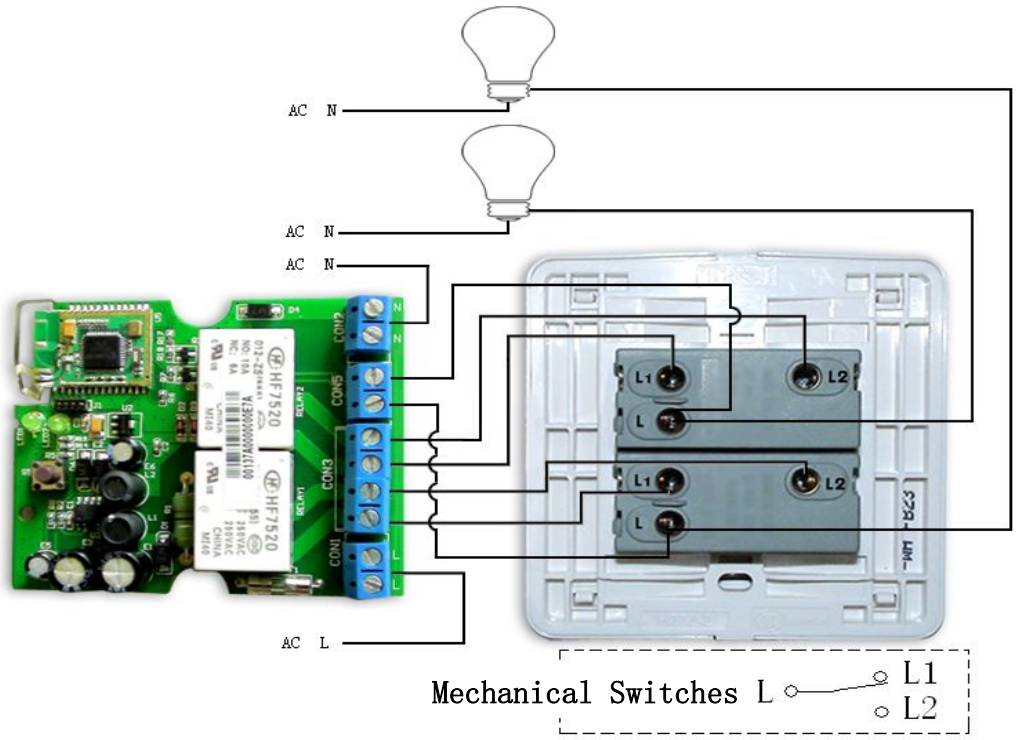
3. Main Features

- Device type：On/Off Output
- Protocol based on ZigBee HA
- Through mechanical switches and ZigBee command to control two ways switches
- Input Power:100~240V AC 50/60Hz
- Consumption: @operating mode <5mA
- Communication Range:70 meters

4.Installation

Note: LED1 in power board is status indicator, LED2 is network indicator, S5 is binding key.

Z802 wiring diagram：
(100-240VAC)



（2）Join into network

① Z802 acts as a router in the network. It will search the network after powering on. If there is a router or coordinator with same channel, LED2 flashes and asks to join network.

② After joining network successfully, LED2 stays on.

（3）Binding

① Device which can bind with: devices with on/off switch functions. On/off cluster ID (0006) of devices remains in server side. Other devices with on/off cluster ID（0006）can bind in client side. For example, Netvox device Z501.

② Binding process: press and hold binding key for 3 seconds, release and then press binding key N times to determine the Nth to bind with within 5 seconds. LED 1 will flash once to show each press is completely. For example, if users would like to bind channel 2, press and hold binding key for 3 seconds and then press binding key twice within 5 seconds. And Z802 will send binding request. Operate bind device to sned binding request to Z802. After binding successfully, LED1 indicator stays on.

（4）Control switch and on/off status

1. Bind device sends on / off command to Z802. After receiving the command, Z802 will turn on corresponding relay and magnets relay switch will close. The external circuit will be turned on. When receiving off command, the corresponding relay will be off. The magnet of rely will no longer connect with switch. The external circuit will be turned off.

2・Each path in Z802 has a mechanical switch to control on/off.

Both operations can be achieved Z802 on/off function by either switch control and wireless control.

（5）Permit join to network

Z802 acts as a router in the network, allowing other devices to join the network. After powering on Z802, it does not allow other devices to join. Press shortly binding key, LED1 indicator of Z802 starts flashing, indicating that it has allowed other device to join the network, the time allowed to join network is 60 seconds,

every 1 second, LED1 indicator flashes once, 60 times in total .

（6）Restore to factory setting

Z802 carries functions of saving data such as saving the distributed network addresses. If users would like Z802 to join a new network, Z802 has to be restored to factory setting first.

To restore to factory setting, press and hold binding key for 15 seconds till LED1 indicator flashes quickly to show restoring completed. And then Z802 will reboot automatically to join a new network.

(7) ZigBee description

I) End Point(s)：0x01，0x02:
II) Device ID：on off output（device ID：0000）
III) Cluster ID which EndPoint supports:

Server side	**Client side**
EP 0x01 ， 0x02(Device ID:on off output (0000))	
Basic(0x0000)	*None*
Group(0x0004)	
Identify(0x0003)	
Scene(0x0005)	
On/Off(0x0006)	

a) Attributes of the Basic Information

Identifier	Name	Type	Range	Access	Default	Mandatory / Optional
0x0000	*ZCLVersion*	Unsigned 8-bit integer	0x00 – 0xff	Read only	0x03	M
0x0001	*ApplicationVersion*	Unsigned 8-bit integer	0x00 – 0xff	Read only		O
0x0002	*StackVersion*	Unsigned 8-bit integer	0x00 – 0xff	Read only		O
0x0003	*HWVersion*	Unsigned 8-bit integer	0x00 – 0xff	Read only		O
0x0004	*ManufacturerName*	Character	0 – 32	Read only	netvox	O

		string	bytes			
0x0005	*ModelIdentifier*	Character string	0 – 32 bytes	Read only	Z802E0R	O
0x0006	*DateCode*	Character string	0 – 16 bytes	Read only		O
0x0007	*PowerSource*	8-bit Enumeration	0x00 – 0xff	Read only	0x01	M
0x0010	*LocationDescription*	Character string	0 – 16 bytes	Read/write	---------	O
0x0011	*PhysicalEnvironment*	8-bit Enumeration	0x00 – 0xff	Read/write	0x00	O
0x0012	*DeviceEnabled*	Boolean	0x00 – 0x01	Read/write	0x01	O

5. Important Maintenance Instructions

- Please keep the device in a dry place. Precipitation, humidity, and all types of liquids or moisture can contain minerals that corrode electronic circuits. In cases of accidental liquid spills to a device, please leave the device dry properly before storing or using.
- Do not use or store the device in dusty or dirty areas.
- Do not use or store the device in extremely hot temperatures. High temperatures may damage the device or battery.
- Do not use or store the device in extremely cold temperatures. When the device warms to its normal temperature, moisture can form inside the device and damage the device or battery.
- Do not drop, knock, or shake the device. Rough handling would break it.
- Do not use strong chemicals or washing to clean the device.
- Do not paint the device. Paint would cause improper operation.

Handle your device, battery, and accessories with care. The suggestions above help you keep your device operational. For damaged device, please contact the authorized service center in your area.