

User Manual

Product Name: Remote Access Hub

Brand: NEUsmart

Model: NS-RAH-BTW

Manufacture: NEU-SMART TECHNOLOGY PTE LTD

1: product description

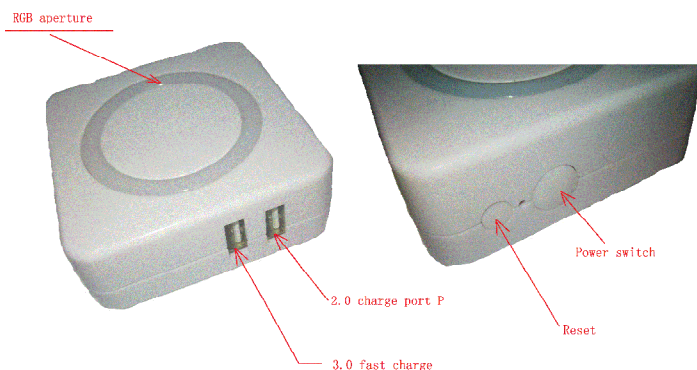
NS-RAH-BTW is a gateway device based on the BLE_mesh module and the WIFI module. It is responsible for coordinating the communication between the WAN and the BLE mesh local area network, thus realizing the requirement of wide area network (remote) control and access to the equipment status of the BLE mesh LAN. Through the gateway equipment, but also can achieve third-party platform access control, has access to foreign Amazon echo, google home and large domestic cloud platform, etc., follow-up will continue to access the new large-scale platform.

1: JRX Gateway appearance



2: Hardware function definition

Remote Access Hub has two buttons (power switch, network reset button) and a LED power indicator, the top of the window can change the three colors, while USB2.0, 3.0 output of each one, the power socket can be part of the replacement For VDE \ BS specifications. As shown below.



3: Indicator status description

LED status	Gateway working status
White light is always bright	Normal working mode (wifi normal connection router, Bluetooth non-discoverable state)
Green light flashing (500ms interval), The blue light goes off and the white light goes out	Wifi waits to configure the router information, Bluetooth is in a non-discoverable state
Green light flashing (1s interval), The blue light goes off and the white light goes out	Connecting to a configured router, Bluetooth is in a non-discoverable state
Blinking blue (1s interval) The green light goes off and the white light goes out	Wifi is properly connected to the router, Bluetooth is in a discoverable state
Blue-ray and green light flash alternately (Green light flashes twice, blue light flashes once), White light goes out	Wifi waiting to configure the router information, Bluetooth can find the state
Blue light green flash alternately (Green light flashes once, blue light flashes once), White light goes out	Connecting to a configured router, Bluetooth is in a discoverable state

二: Use introduction

1: USB instructions:

Will be inserted into the mini-gateway utility block, at this time in a standby state. Press the power button and the internal circuit is on. Respectively, output 15 volts and 3.3 volts two voltage. The 15 volt voltage is used to charge part of the USB supply. 3.3 V for power supply to wifi modules and Bluetooth modules. When the power is on, the power button red light is on, indicating that the DC power supply is normal. When the power button is pressed again. Internal power supply cut off. That is, each time is ON / OFF cycle. (Press once to turn ON, press again to turn OFF)

When the power has been completely turned off the power supply, power supply part is completely out of power state. Press the power key switch again to turn on the power. When the machine is powered on, the corresponding Bluetooth and wifi start looking for links. See the led lights instructions state description.

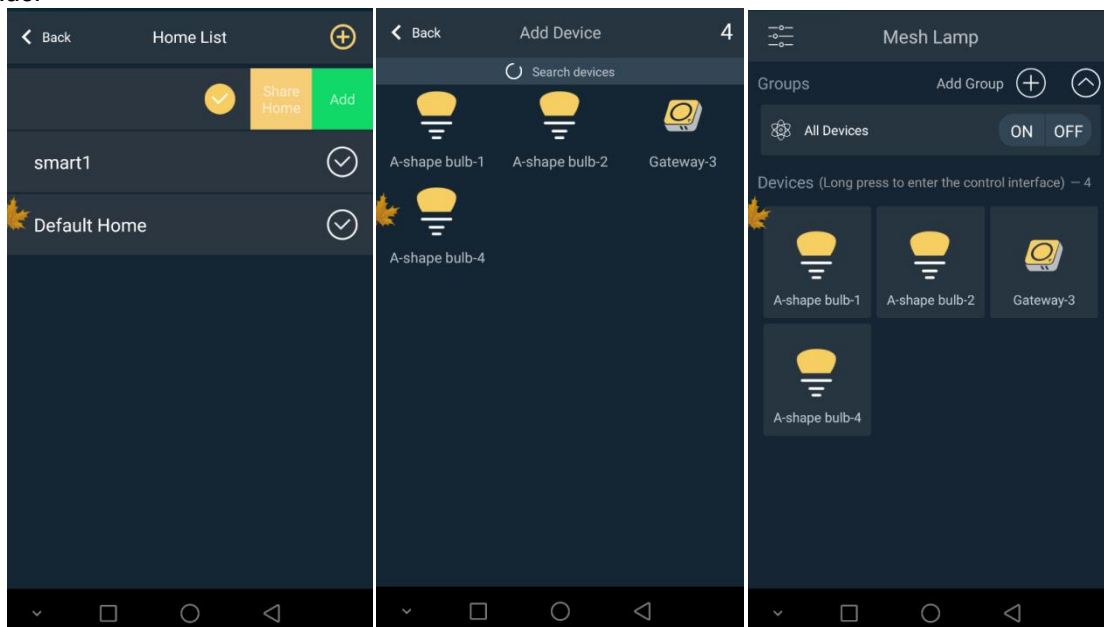
And in the power supply state press reset, the whole machine Bluetooth and wifi all quit, re-match the link.

When the USB contacts the phone and other charging equipment, the internal communication protocol to identify, when recognized as a normal charging device, that is, 5V / 1A charge current output for charging. The charging port is 2.0 standard.

USB3.0 output port access to mobile phones and other charging facilities, internal communication protocol identification, when identified as a fast charge with the equipment to the maximum current output, into the fast charge mode, automatic voltage adjustment, (adjusted to 5V / 3A, 9V / 2A, 12V / 1.5A) to quickly charge the product, fully charged into the protection after the state. While the device at the same time charging, another 3.3V power supply so that the module to maintain network connectivity, you can do other gateway operations.

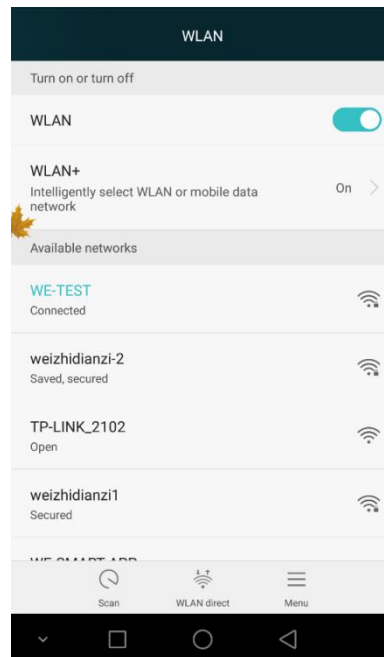
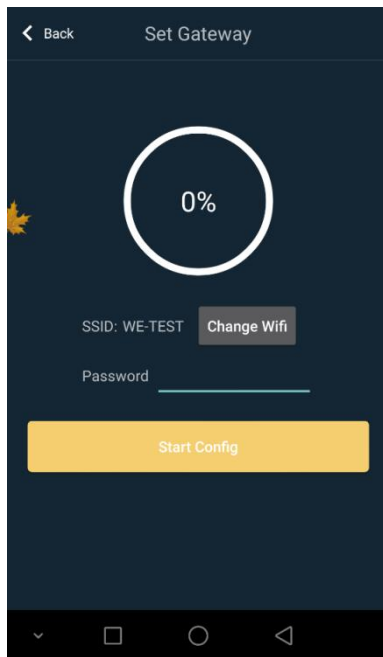
2: Network instructions

After the power supply to the gateway, you need to switch the gateway to Bluetooth can be found in the state, the use of sharp objects or signature pen short press the dark hole inside the button once, you can see the blue light flashing, this time through the APP to add the device to add the gateway To the private family to go inside, the following figure: Andrews phone long press the eric family to add the device (Apple mobile phone sliding room to add equipment), jump to add the device interface, this time will search for nearby devices, when you see the search to add After the gateway, return to the main interface, you can see the main interface has a gateway, this time that the network has been added to this new family inside.



3: Router description

Gateway to add to the new family, you need to connect with the home router, long press the gateway icon to enter the settings shown below Gateway interface, SSID phone is currently connected to the WIFI name, followed by a switch WIFI can enter the phone WLAN settings interface connection Other WIFI, fill in the password area WIFI password, the point can be configured to start, when prompted to set the success, then you can see the green light off the gateway, white light is always bright, this time connected to the router, white light is normal Work light, then you can remote control.



4: Product specifications

Remote Access Hub	
Product number	NS-RAH-BTW
Wireless device	WIFI + bluetooth blending
Operating Voltage	AC100-240V
Power factor	>0.5
Output Power	5W-25W
Switch mode	electronic switch
Reset mode	Button switch
USB2.0 Poor charge current	out5V $\geq$ 2A
USB3.0 Fast charge current	Automatically adjust the output 5V $\geq$ 3A、9V $\geq$ 3A、12V $\geq$ 1.5A
WIFI working frequency	2.4GHZ
WIFI Working distance	Open to $\geq$ 100 meters
Blue buds working frequency	2.4GHZ
Blue buds Working distance	Open to $\geq$ 100 meters
Number of connected nodes	Not less than 10,000
Network mode	Blue buds MESH
temperature range	-20℃-60℃
Use the environment	Only for indoor use

Safety guidelines

note! In order to ensure the integrity of the product and the use of safety, please follow the instructions on this manual and reminders. Carefully operate! Please read the safety precautions carefully:

- Try to avoid installation in minefields, strong magnetic fields and high pressure areas.
- Make sure that the wiring is secure enough to avoid damage to the parts and trigger a fire accident.
- Install the controller in a well-ventilated area to ensure that the ambient temperature is appropriate.
- Please check the controller input voltage, switching power supply (power supply to support constant voltage switching power supply) is in line with product requirements,
- Whether the power supply positive and negative definitions are consistent with the product.
- Do not charge the wiring, check to confirm the wiring is correct, check no short circuit, and then power!
- If there is a problem, do not repair it yourself. If you have any questions, please contact the supplier.

FCC Caution.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.