



Description

This USB Bluetooth dongle features three core features:

Integrating a PA (Power Amplifier) function, it enables the device to act as a new relay, effectively enhancing signal transmission range and stability.

It can accurately capture data packets within a Mesh network and efficiently convert them into serial data for further processing and analysis.

It works in coordination with a host computer to precisely capture aging data, providing a reliable basis for product performance evaluation and optimization.

Note

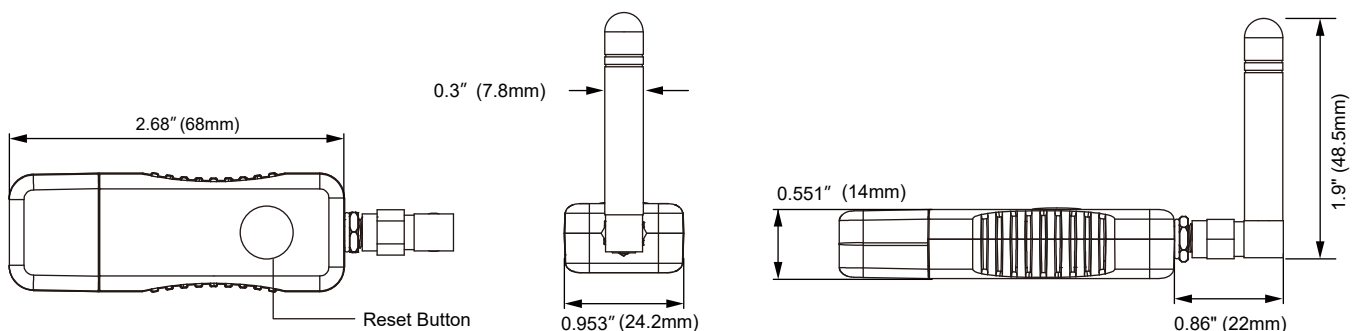
The HSE-BA1 functions as a relay node in a Mesh network.



Specifications

Operating Voltage	DC 3.3V-5.0V
Operating Current	< 20mA
Standby Power Consumption	< 0.5W (at 5VDC supply)
Connection Interface	USB port
Control Device	HSE WISE APP
Control Method	2.4GHz Bluetooth wireless control
Radio Frequency	2.4GHz (2402~2480MHz)
Bluetooth Version	5.4
Main Functions	Bluetooth data relay, Mesh data and USB signal conversion
Button Function	Press and hold for more than 5 seconds to enter network configuration mode
Control Coverage	500 m / 1640 ft
Indicator Light Function	1. Network configuration mode: Red and blue LEDs flash alternately 2. Successfully configured: Blue LED stays on 3. Fault state: Red LED stays on
Working Temp	-25°C to +60°C
Warranty	5-years

Dimensions



Pairing & Usage Guide

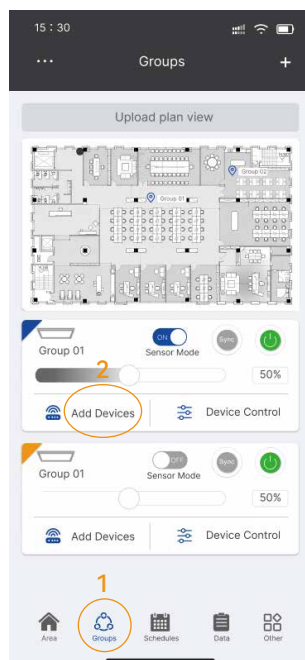
1. Preparation

- Search for and download the **HSE WISE APP** from your app store, then complete installation, registration, and login.
- Enable Bluetooth on your mobile device and ensure it remains active.

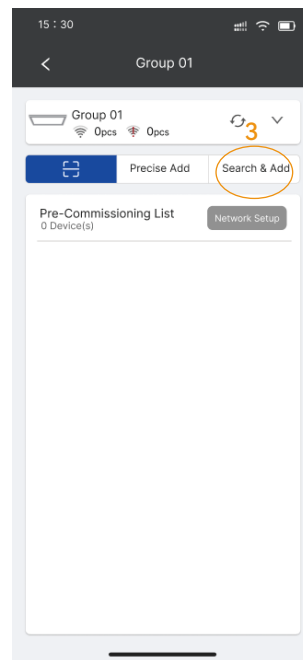


2. Device Pairing Steps

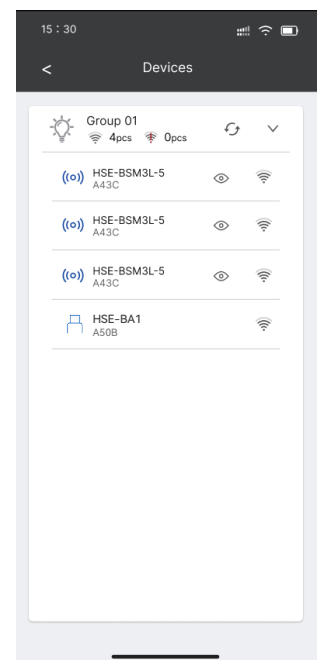
Press and hold the HSE-BA1 reset button for 5 seconds until the red and blue indicators flash alternately, indicating that HSE-BA1 has been reset and entered pairing mode.



Open the HSE WISE APP, go to **[Add Devices]** to start device searching and adding.



Enter the APP network configuration interface. You can automatically search and add the device via Search & Add.



After device addition, check the connection status in the device list.

Restore Network Pairing Mode

- Press and hold the HSE-BA1 reset button for over 5S to reset Bluetooth. The reset is complete when the red and blue indicators flash alternately.
- Remove the device in the APP to restore it to the unconfigured network state. The red indicator inside the button will flash upon successful reset.

