

Auk Bridge Relay

Product Manual

This instruction describes about how to use auk bridge relay, aim to help users get to know the device quickly.

Quick Start

Preparation for installation

- 1) Make sure the relay device is registered to the LoRaWAN server before installation.
- 2) The device ID tag is located on the side of the product, and the QR code information corresponds to the device DevEUI.
- 3) Use DEVEUI and other ID information to register the device to server

Device activation and installation

- 1) Press the button until the green light stays on and release to activate the device.
- 2) The device will be automatically connected to the network after activation and trigger an installation check.
- 3) The device will light up actively for 10 seconds after the installation test is completed to display the installation result.
 - a) Long green light: successful installation, good signal
 - b) Long yellow light on: installation failure, weak signal
 - c) Long red light on: installation failed, device cannot connect to server

Installation inspection

- 1) Press the button and the green light flashes (if the LED flashes in other states after pressing the button, it means the device is unsuccessfully connected to the network or in a sleep state, please refer to the previous article).
- 2) Hold pressed until green strobe (rapid flashing)
- 3) Release the key to confirm the key value
- 4) The device automatically flashes red to indicate an installation check is in progress.

Advanced Feature

Button Function List

State	Condition
Click	Press button and hold less than 5s
Press	Press button and hold 5s to 10s
Long Press	Press button and hold 10s to 15s

Mode	Key Type	Function	LED Indicator
SLEEP	Click	NA	R / G Alt.
	Press	Reset	Yellow Strobe
	Long Press	Active	Green ON
JOIN	Click	Join Speed Up	Red Strobe
	Press	Reset	Yellow Strobe
	Long Press	Deactive	Red ON
RELAY	Click	Active heartbeat	Green Blink
	Press	Installation	Green Strobe
	Long Press	Reset	Yellow Strobe
INSTALLATION	Click	NA	NA
	Press	NA	NA
	Long Press	NA	NA

LED Indicator

When LED is working as button indicator:

State	Function
R / G Alt.	Device is in SLEEP mode
Green ON	Release button to set ACTIVE mode
Red ON	Release button to set SLEEP mode
R Strobe	Release button to speed up join network
G Strobe	Release button to set INSTALLATION mode
G Blink	Release button to send one active heartbeat
Y Strobe	Release button to RESET device

When LED is working without button:

Red high light blink: device is under installation mode

Green high light blink: device is under relay mode

Quick Help

How to troubleshoot device access failures?

- 1) Ensure that the server has correctly registered the device information DevEUI, AppEUI, and Appkey of the Queqiao relay
- 2) Ensure that the target installation location is covered by the gateway and the frequency band information matches

The installation test does not turn on the green light, but the signal is always weak.

Try again after changing the installation location. Or consider re-planning the gateway installation location.

How to speed up device access to the network during the installation process?

The red LED flashes after the button is pressed. Release the button at this time to trigger an accelerated network access operation. After successfully accessing the network, press the button and the green light flashes. At this time, release the button to trigger an active data heartbeat packet.

How to query current mode of the equipment?

The current working status of the equipment can be queried using the following methods:

Method	Operation
Query by Heartbeat LED	<ol style="list-style-type: none"> 1. Wait about 10s, check if there is heartbeat LED 2. Green, device is under relay mode (Normal) 3. Red, Joining to network 4. NA, device is under sleep mode
Query by Button	<ol style="list-style-type: none"> 1. Press button and observe LED pattern 2. R / G Alt., Device is under SLEEP mode 3. Red Strobe, device is joining network 4. Green Strobe, device is under relay mode <p>NOTE: release button in 5s to prevent triggering other button functions and causing the device to reset</p>

How to exit without triggering any function after the button is pressed?

Keep the button in the pressed state until the LED light is off. At this time, releasing the button will not generate any key value and will not trigger any function.

How to shut down the active device?

- 1) Press the button until the yellow light flashes to restart the device
- 2) Press the button until the red light is on and let go (the whole process does not exceed 15 seconds)