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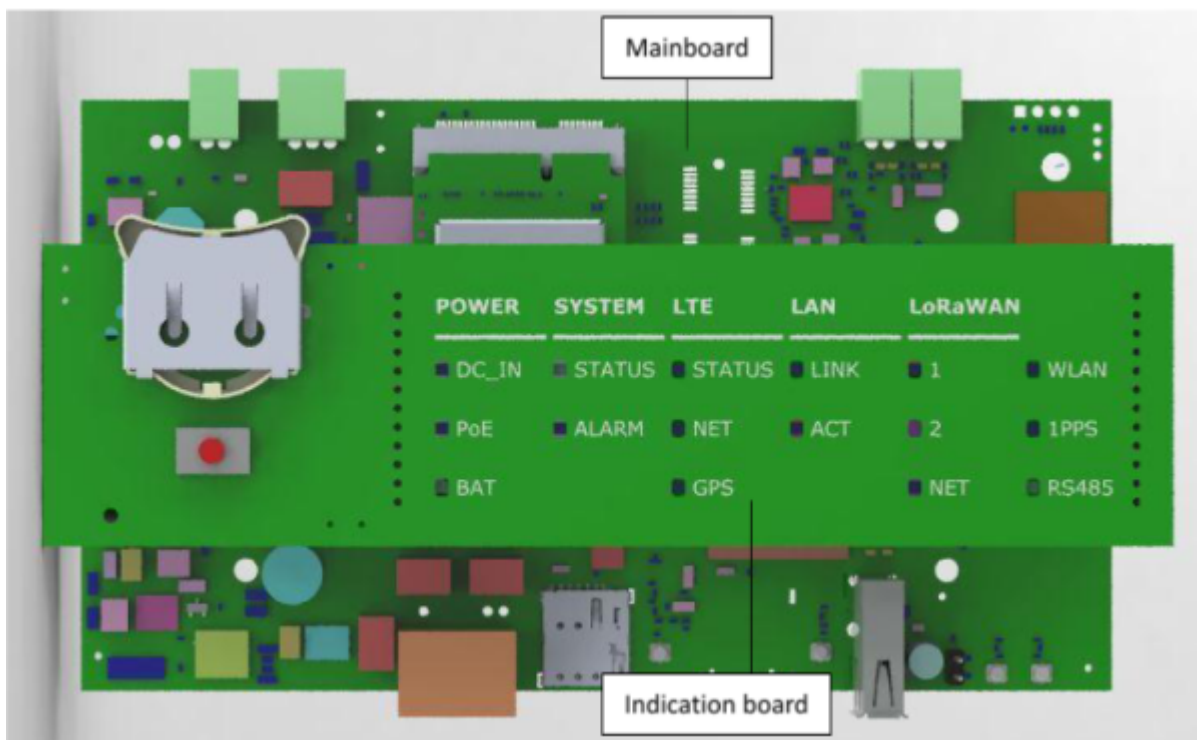
LoRaWAN Gateways

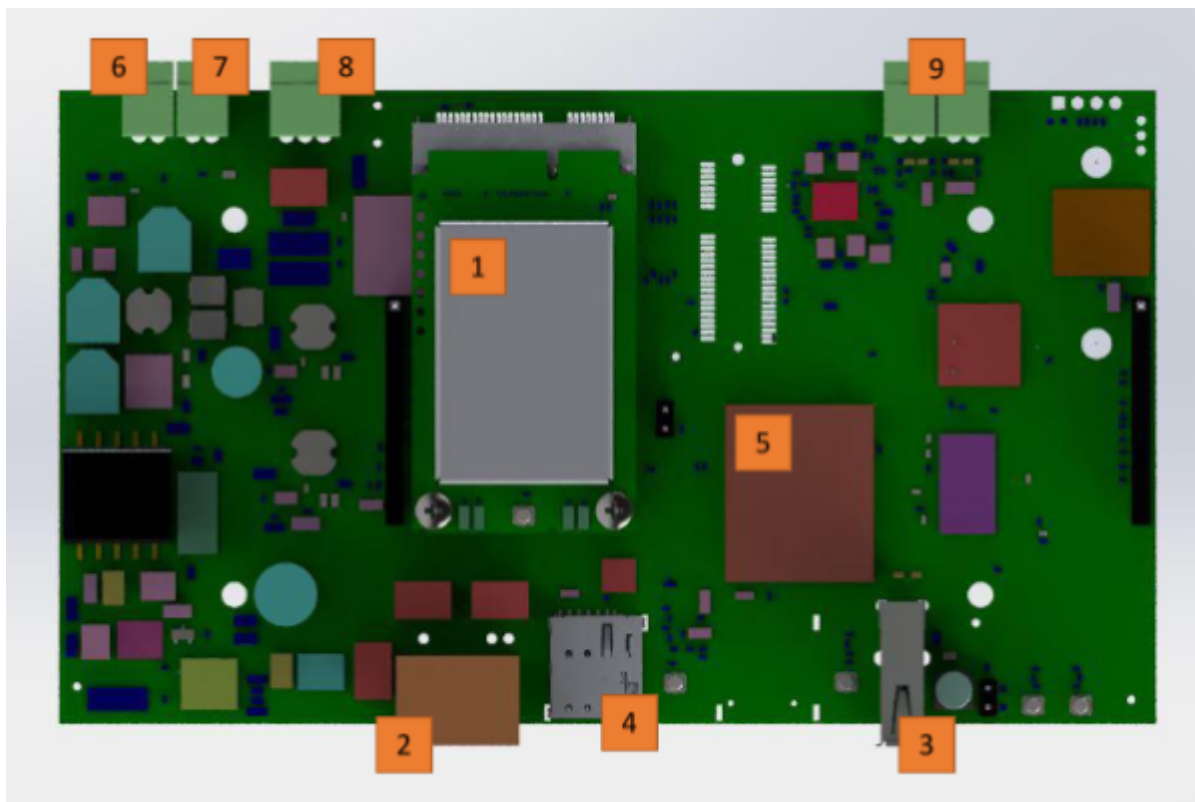
- [Jooby Sales](#)
- [Jooby LoRaWAN Gateways](#)



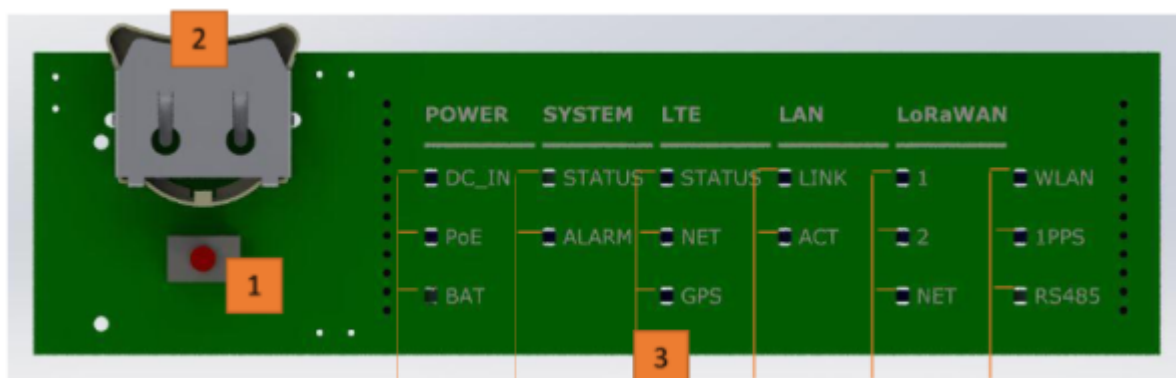
Overview

JOOBY Outdoor Gateway LoRaWAN 3xx/4xx





1. Mini PCIe Card LoRaWAN Concentrator
2. Ethernet/PoE. PoE - IEEE 802.3af/at, **Mode B (midspan), 4/5(+),7/8(-)**
3. USB 2.0
4. Nano SIM-card slot
5. CPU
6. Backup battery connector. For 12V Li-ion/Li-Pol Battery.
7. Power connector DC 12-16,5V. DC 12V - without using a backup battery. DC 15V±1,5V power supply is required to charge the Backup battery [Charge Pump](#)
8. RS485
9. Tamper connectors



1. Functional button (Fn). [Factory reset/Switching memory bank](#)
2. Slot for RTC battery Li-ion CR/BR 2032
3. LED Indicators

| LEDs name | Function | Colour |
|--------------|----------------------------------|--------|
| POWER | | |
| DC_IN | Availability of DC power supply | green |
| PoE | Availability of PoE power supply | green |

| LEDs name | Function | Colour |
|----------------|---|---|
| BAT | Charging status of Backup Battery | Charging in progress - red, Fully charged - green |
| SYSTEM | | |
| STATUS | Status Indication of Gateway | Normal work mode/Successful loading - green, Error / Standby - red |
| ALARM | Disconnecting the tamper - Gateway case has been opened | red |
| LTE | | |
| STATUS | LTE is activated | green |
| NET | LTE is connected | Yellow led blinks slowly when searching network, Yellow led blinks fast when transfer is online |
| GNSS | GNSS is working | green |
| LAN | | |
| Link | Link | green |
| ACT | Activity | yellow |
| LoRaWAN | | |
| 1 | First LoRaWAN Module is available | blue |
| 2 | Second LoRaWAN Module is available | blue |
| NET | Connection to server is available | green |
| WLAN | WiFi is available | green |
| 1PPS | 1PPS signal is available | green led blinks once per second if available |
| RS485 | RS485 receive/transmit | green - receive progress, red - transmit progress, 0 - Not active |

Factory reset


In this case, the hardware reset rule is 30-30-30.

- Long press (30 sec) - System|Status led blinks red;
- When System|Status led lights red, then release Fn - wait for 30 sec;
- System|Status starts to blink yellow - long press (30 sec);
- System|Status led and System|Alarm led light red - release Fn;
- Factory reset completed successfully. The device will be rebooted.

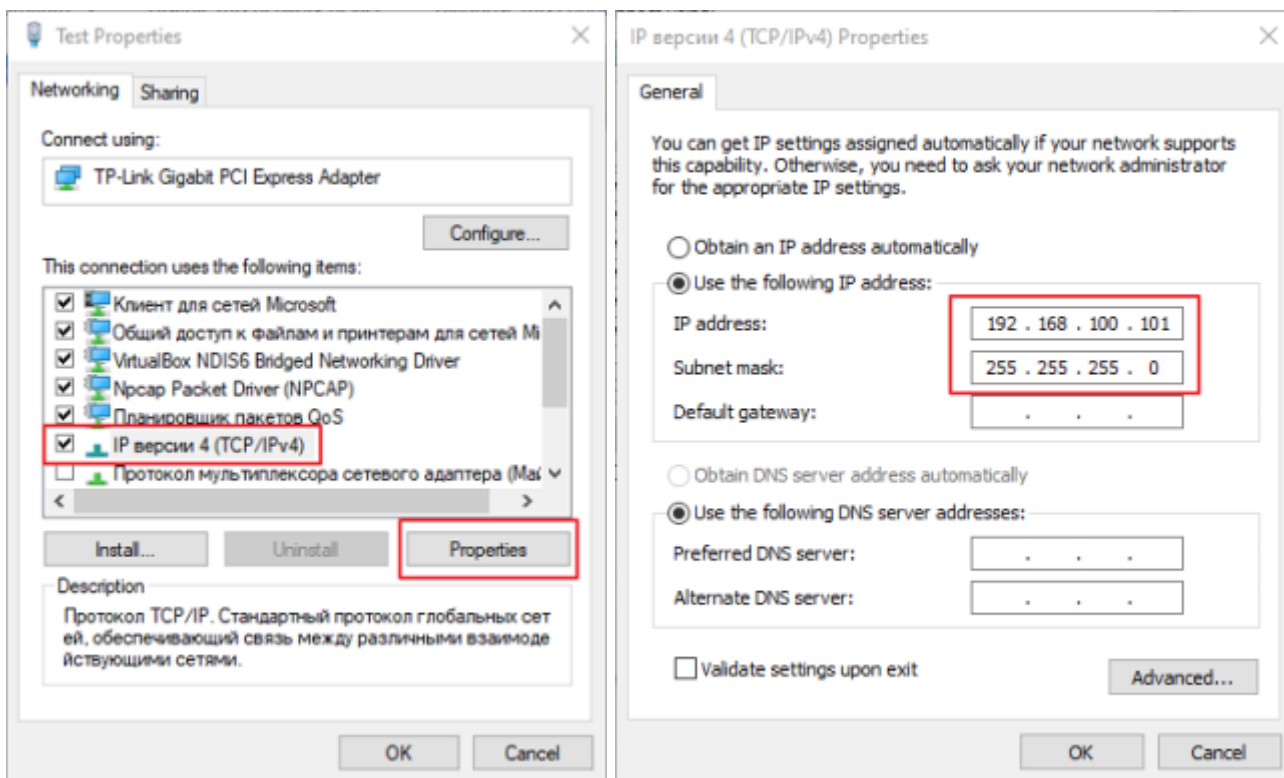
Switching memory bank/Alternate memory bank

- Long press (30 sec) - System|Status led blinks red;
- When System|Status led lights red, then release Fn - wait for 30 sec;
- System|Status starts to blink yellow - long press (15 sec);
- System|Status led lights red - release Fn;
- The device will be rebooted and loads from an alternate memory bank.

Access to Web GUI

 By default, web-interface is available on **Lan** and **Wi-Fi** only. Wi-Fi interface is available as an option, depending on gateway model. Web-interface settings can be changed in **System** ⇒ **Administration** ⇒ **HTTP server configuration**.
The LAN interface is set to static IP - **192.168.100.100/24**.


- Connect the Ethernet cable to the LAN gateway port and the LAN port of your PC (port to port).
- Configure static IP address for the LAN interface of your PC. For example: 192.168.100.101/24



- In address bar of your browser (it is recommended to use [Mozilla Firefox](#) or [Google Chrome](#)), enter `http://192.168.100.100` or `http://jogl-ffffff.local`.

ffffff - last three octets of the device's MAC address.

Username: **admin**
Password: **lorawan**

 It is recommended to change the Administrator password when login in for the first time!

System ⇒ Administration ⇒ Gateway password

- **Password ⇒ Confirmation ⇒ Save.** - Can be reset to manufacturer using “Factory reset”.

It is possible to set a user password as the “default password”:

- **Password ⇒ Confirmation ⇒ toggle button - “Use as default” ⇒ Save.**

Warning! “Use as default” - Sets a new “default password” and rewrite manufacturer password. Use it carefully. Pay attention on the warning in the pop-up window. **Cannot be reset to manufacturer default via “Factory reset”.**

SSH Access

By default:

- SSH - disabled.
- Port - 22.
- Access to password - enabled.
- User - root.
- Password - not specified.

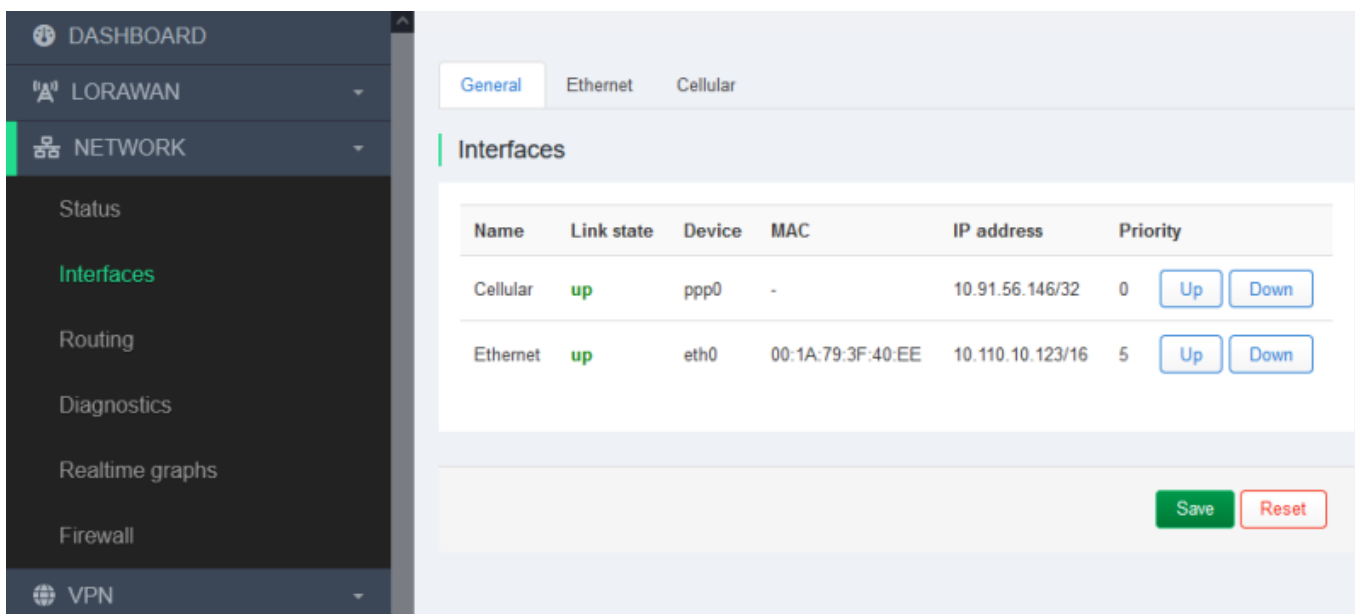
It is necessary to specify a password and/or keys when enabling SSH.

Network

Interface Priority

In case of using several connections (Ethernet + LTE), it is possible to select the interface through which LoRa packets will be sent. Interface number "0" (first in the list) is considered as priority. Use the UP/DOWN buttons to raise/lower priority. Use "Save" to apply the changes.

Network ⇒ Interfaces ⇒ General

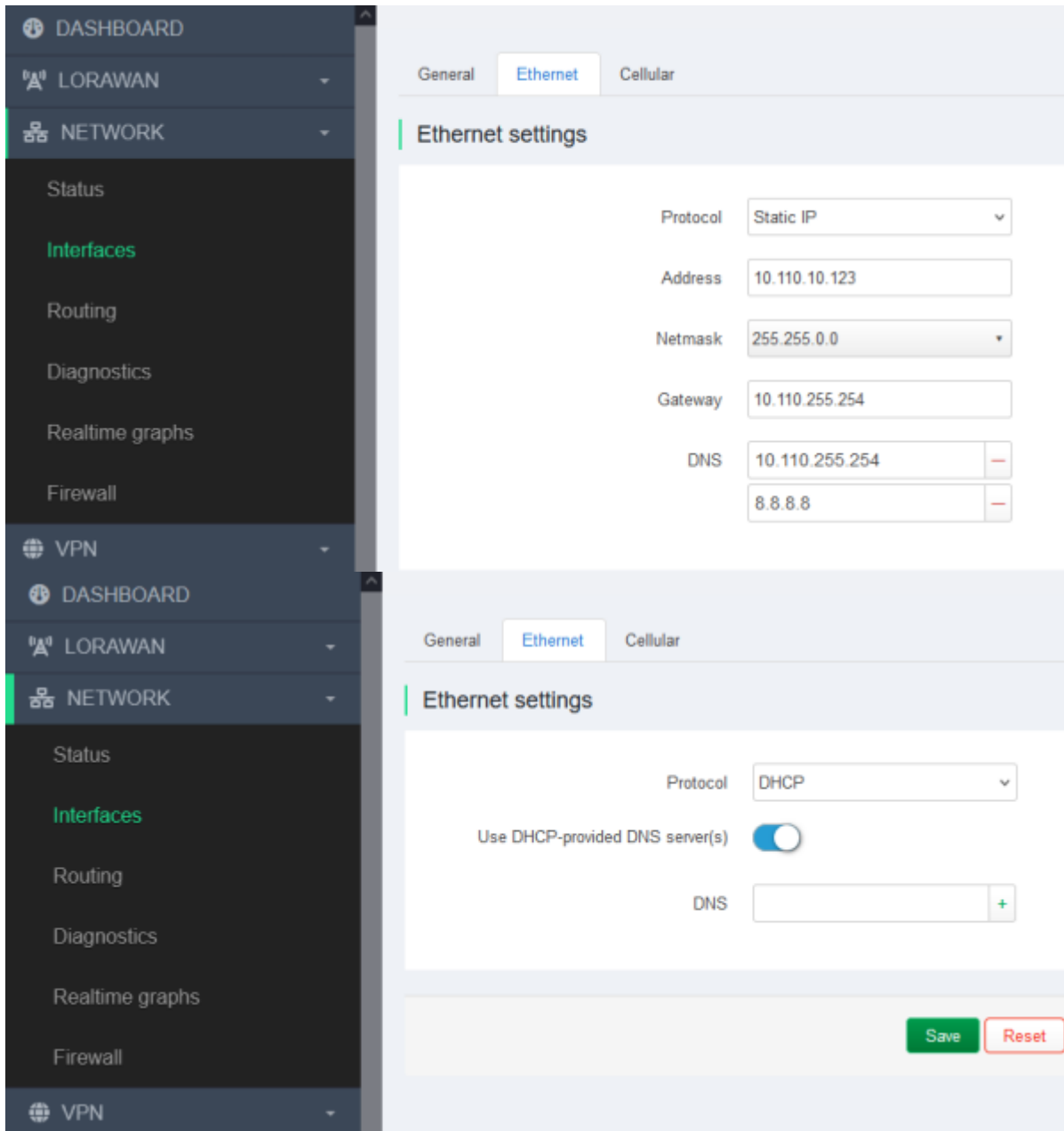


Ethernet

Default IP address of the LAN gateway interface - 192.168.100.100/24.

You can change the IP address to a static one from your network or set it to automatically obtain addresses using the DHCP protocol.

Network ⇒ Interfaces ⇒ Ethernet



LoRaWAN

Settings

There are two variants of “LoRaWAN network settings” - **Packet Forwarder** or **Basic Station**.

LoRaWAN network settings

Gateway ID 001A79FFFE3F4110

Mode

Server address

Region

LoRaWAN network settings

Gateway ID 001A79FFFE3F4110

Mode

Server address

Region

Gateway ID - Gateway identifier.

Mode - Operating mode (Packet Forwarder or Basic Station).

Server address - NS server address (Network Server).

Region - LoRaWAN frequency plans and rules for countries/regions. Defined in the regional plans section [LoRaWAN Regional Parameters](#).

System

Firmware

Firmware information

Current firmware version JOGL v.0.9.23-oem 20240111174904

Active bank A

Bank configuration

Bank

Factory reset

Flash new firmware image

Reboot after flashing firmware

Image

- **Firmware version** - Information about software version. Active memory bank.
- **Bank configuration** - Switching memory bank. Can be set to - A/B.
- **Factory reset** - Reset to default settings.
- **Flash new firmware image** - Software update using PC via Web interface.

Update settings

The remote/automatic software update subsystem uses a solution based on [Eclipse hawkBit™](#).

By default, software updates are configured on the equipment manufacturer's servers - `gwupdate.infomir.com`. It is possible to configure and use your own update servers based on the Eclipse hawkBit™ solution.

Update settings

Server address

Tenant id

Authorization token

Log level

Reboot after update

Backup/Restore

Saving and restoring settings. It is possible to save the configuration to a file and then restore it after resetting to factory settings, or load the saved configuration on another device.

Backup

Restore

Customization

It is possible to order a software version with user settings from the manufacturer. All user settings will work as (Factory settings) in this case. This can be done by request [Sales department](#).

It is necessary to:

- Make/apply all settings in Web interface.
- Save settings in file using Backup/Restore.
- Submit files to the manufacturer through the sales department.

From:

<https://wiki.jooby.eu/> -

Permanent link:

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