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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.
 - 1. DC 12V without using a backup battery;
 - 2. 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
	P	OWER	
DC_IN	Availability of DC power supply		green

LEDs name	Function	Colour				
PoE	Availability of PoE power supply	green				
ВАТ	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

Test Properties	× IP версии 4 (TCP/IPv4) Properties	\times
Networking Sharing	General	
Connect using: TP-Link Gigabit PCI Express Adapter Configure This connection uses the following items: Knivent для сетей Microsoft Knivent для сетей Microsoft Knivent для сетей Microsoft VitualBox NDIS6 Bridged Networking Driver VitualBox NDIS6 Bridged Networking Driver Npcap Packet Driver (NPCAP) Npcap Packet Driver (N	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. O Obtain an IP address automatically IP address: Obtain DNS server address automatically Obtain DNS server address automatically Obtain DNS server address automatically Is use the following DNS server addresses: Preferred DNS server: . Alternate DNS server: . Validate settings upon exit Advanced	
OK Cancel	OK Cancel	

• 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		

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Authorization Required			
Us	sername	admin	
P	assword	•••••	
	L	ogin	



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

System ⇒ Administration ⇒ Gateway password

Jooby Outdoor LoRaWA	N Gatewa	ay			MAC:
DASHBOARD					
"A" LORAWAN	-	Time synchronization	Gateway password	SSH configuration	HTTP server co
윪 NETWORK	-	Gateway Passwo	rd		
SYSTEM	-	Changes the administrator	password for accessing	the device	
Status			Password		•
Administration			Confirmation		*
Geoposition				Jse as default	
Sensors					

• **Password** ⇒ **Confirmation** ⇒ **Save**. - Can be reset to manufacturer using "Factory reset".

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

• Password \Rightarrow Confirmation \Rightarrow toggle button - "Use as default" \Rightarrow 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"**.

Do you really want to set password as default?		
After a reset to factory settings, the default password will be app to lose this password. Your diligence in safeguarding and remem essential for the security and functionality of your account. Press "Apply" to reset and reboot, or "Cancel" to abort the opera	lied automatically. It is o bering the default passo ition.	crucial not word is
	Cancel	Apply

SSH Access

By default:

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

It is neccessary 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 \Rightarrow Interfaces \Rightarrow General

DASHBOARD	~						
"#" LORAWAN	•	General	Ethernet	Cellular			
器 NETWORK	· -	Interface	s				
Status		Name	Link state	Device	MAC	IP address	Priority
Interfaces		Cellular	up	ррр0		10.91.56.146/32	0 Up Down
Routing		Ethernet	up	eth0	00:1A:79:3F:40:EE	10.110.10.123/16	5 Up Down
Diagnostics							
Realtime graphs							
Firewall							Save Reset
VPN	-						

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**

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DASHBOARD	^	
"A" LORAWAN	•	General Ethernet Cellular
윪 NETWORK	·	Ethernet settings
Status	- 1	
Interfaces	- 1	Protocol Static IP V
Routing	- 1	Address 10.110.10.123
	- 1	Netmask 255.255.0.0 *
Diagnostics	- 1	Gateway 10.110.255.254
Realtime graphs	- 1	DNS 10.110.255.254 -
Firewall	- 1	8.8.8.8 -
VPN	·	
😗 DASHBOARD		
[®] ▲ [®] LORAWAN	•	General Ethernet Cellular
윪 NETWORK	•	Ethernet settings
Status		
Interfaces		Protocol DHCP ~
Routing		Use DHCP-provided DNS server(s)
rouung		DNS +
Diagnostics		
Realtime graphs		
Firewall		Save
VPN	•	

LoRaWAN

Settings

There are two variants of "LoRaWAN network settings" - Packet Forwarder or Basic Station.

LoRaWAN network settings	
Gateway ID	001A79FFFE3F4110
Mode	Packet forwarder
Server address	server.example.com
Region	EU868 ~
LoRaWAN network settings	
Gateway ID	001A79FFFE3F4110
Mode	Basic station ~
Server address	server.example.com
Region	EU868 ~

Gateway ID - Gateway identificator.

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 Active bank	JOGL v.0.9.23-oem 20240111174904 A
Bank configuration	
Bank	A ~
Factory reset	
	Perform reset
Flash new firmware image	
Reboot after flashing firmware	
Image	Flash 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.

Last update: 2025/07/15 12:19	en:rdc:gateways:start	https://wiki.jooby.eu/en/rdc/gateways/start
Update settings		
Server address	gwupdate.infomir.com:8080	
Tenant id	DEFAULT	
Authorization token	3dcf82c04804039776d3fba84b234235	li.
Log level	Message v	
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	
	Generate archive
Restore	
	Upload archive

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 <u>Sales department</u>.

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.

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Permanent link: https://wiki.jooby.eu/en/rdc/gateways/start

Last update: 2025/07/15 12:19