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Guideline mounting Ethernet Gateway

Introduction

This device is ready for use and requires only 12- or 24-volt DC and an Ethernet connection with DHCP to operate. Sensor data is sent immediately to the Neuron cloud, which provides low latency. The gateway has a local web interface for configuration of network parameters but has DHCP enabled as default.

Firewall

The gateway uses secure MQTT to communicate with the Neuron Cloud, so port 8883 TCP has to be open for sensordata to reach the Neuron Cloud at mqtt.googleapis.com

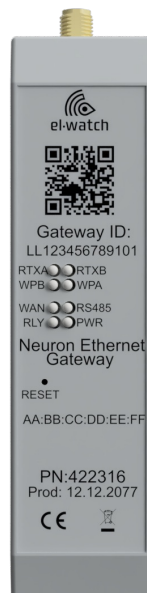
Mounting the Gateway

The gateway is best mounted on a DIN rail in a cabinet where you have access to a ethernet connection and a 12- or 24-volt DC power supply.

Note

Remember to position the equipment so that it is not difficult to disconnect the power supply if necessary.

Gateway Front



RTXA: This LED flash red every time it communicates with a Neuron Sensor on Neuron antenna #1.

RTXB: This LED flash red every time it communicates with a Neuron Sensor on Neuron antenna #2.

WPB: This LED is constant red when connected to the Neuron Cloud. Flashes red when trying to connect.

WPA: Reserved for future use.

WAN: ON when connected to a cellular network. Only used for software and firmware updates.

RS485: ON when RS485 is active.

RLY: ON when Relay output is active.

PWR: ON when powered.

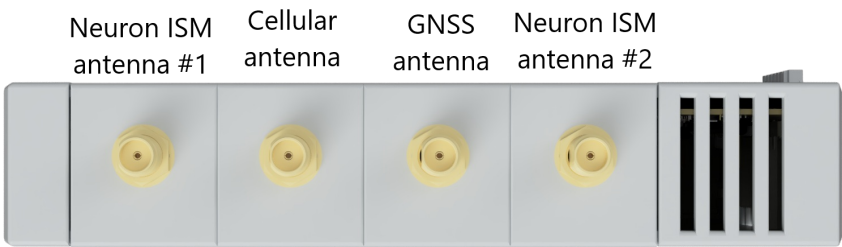
RESET: Press this button to restart the gateway. Hold for 10 seconds to reset to factory defaults.

Factory reset

Performing a factory reset will restore the Ethernet Gateway to its initial factory settings with DHCP configuration and the default login credentials.

Antennas

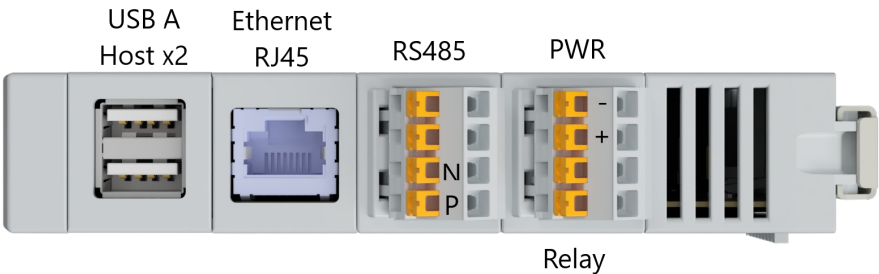
Connect the cellular antenna and both Neuron antennas. If the cabinet is made of metal, we recommend mounting the cellular antenna and at least one Neuron antenna on the outside of the cabinet. An optional GNSS / GPS antenna can also be mounted, but this feature has not yet been implemented in the Neuron app. The best place to mount a GPS antenna is outside, with an unobstructed view-of-the-sky. Connect the two Neuron antennas and the cellular antenna.



Neuron antenna	Neuron antenna (magnet mount)	Cellular antenna
		

Connectors

Connect the ethernet cable and power to the other side of the gateway. The power supply can be either 12VDC or 24VDC. The gateway also has a potential free relay output, an RS485 connector and 2 USB A host connectors. These are reserved for custom use cases. The RS485 connector is not mounted on all gateways.



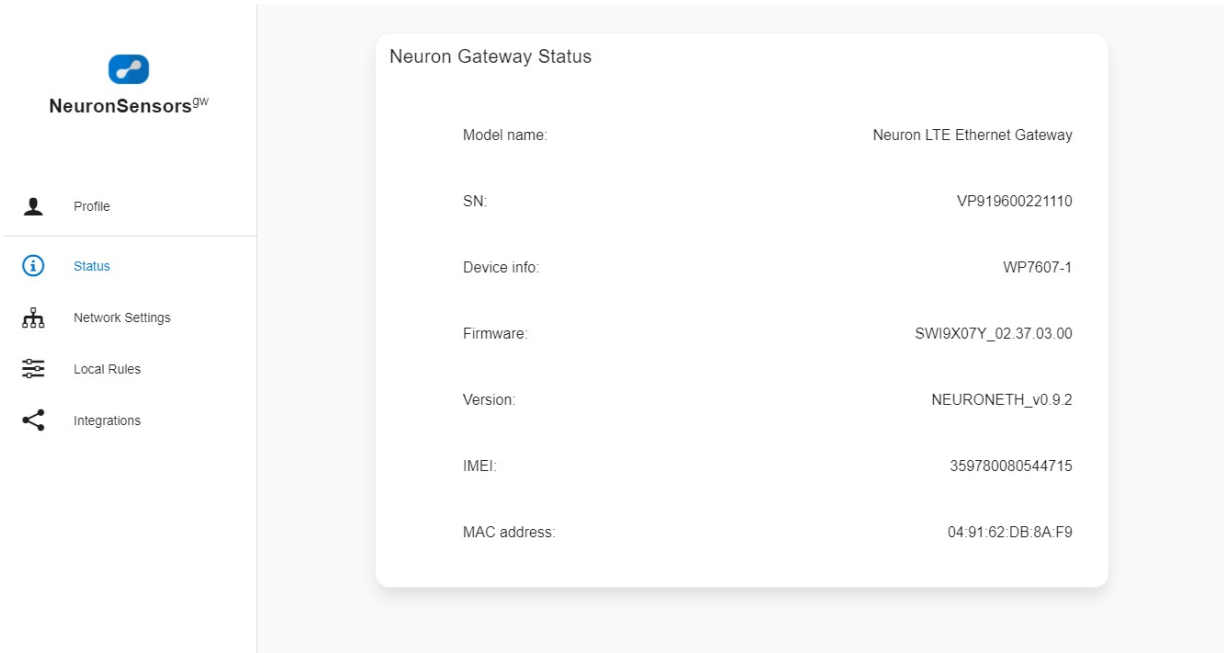
Configuration

The gateway has a web interface for configuration. Open a browser and enter the gateway IP. Log in with the correct username and password. Default credentials is written on the side of the gateway.

Gateway IP address

The gateway IP address can be found in Neuron Cloud [gateway details](#) after gateway is added to a system.*

After login in you will be presented a status page with some basic information like serial number, version, imei and mac address.



Go to network settings if you wish to set a static IP address or change the default network settings.

The screenshot shows the NeuronSensorsGW web interface. On the left is a sidebar with the logo and navigation links: Profile, Status, Network Settings (highlighted), Local Rules, and Integrations. The main content area displays a 'Network Settings' modal with the following fields:

Field	Value
IP:	10.40.15.150
Gateway:	10.40.15.2
Mask:	255.255.255.0
DNS:	8.8.8.8
DHCP:	☒

A 'Save' button is located at the bottom right of the modal.

Go to profile to change the default password:

The screenshot shows the NeuronSensorsGW web interface with the 'Profile' modal open. The 'Security' section is active, showing a 'Change password' form with three input fields: 'Old password', 'New password', and 'Confirm password'. A 'Save' button is at the bottom right.

Password requirements

Password length must be at least 8 characters.

Local rules and Integrations are under development and work in progress.

Firewall issues

Many corporate firewalls block port 8883. You can work with your internal IT team to allow access between the gateway and `mqtt.googleapis.com` on port 8883.