AuroraHub IoT Gateway

Quick start guide (v1.2)

Before start

Before using **AuroraHub IoT Gateway** (and any of its variant) ensure you have all needed equipment. Everything can be found in one box. Smaller antenna (1) is for WiFi/Bluetooth, the longer one (2) for IQRF connectivity. Connect these antennas and power source (3) as shown in this picture:

Variants

AuroraHub IoT Gateway with LoRa comes with third antenna (and LoRa module installed internally) that has to be connected in between two other antennas.
AuroraHub IoT Gateway with 4G LTE comes with 4G LTE USB dongle that has to be connected to any of two USB ports.

It is also possible to get outdoor kit for any of AuroraHub IoT Gateways.

Pre-installed software

Any **AuroraHub IoT Gateways** come with preinstalled:

- Linux-based operating system (*Debian*),
- IQRF tools:
  - **IQRF Gateway daemon** (https://gitlab.iqrf.org/open-source/iqrf-gateway-daemon)
  - **IQRF Gateway webapp** (https://gitlab.iqrf.org/open-source/iqrf-gateway-webapp)
- **PIXLA** remote management software (https://www.pixla.online)
  - Follow the manual at https://www.pixla.online/en/help/how-to-get-token
- **Netconnect**[1] LAN, WiFi, LTE connection manager
  - Details here: https://github.com/RehiveTech/netconnect-backend

Connectivity

Ethernet interface

For the connectivity, via standard Ethernet interface (RJ45) it is configured to use an IP address from DHCP server. For the system console access using SSH use this credentials[2]:

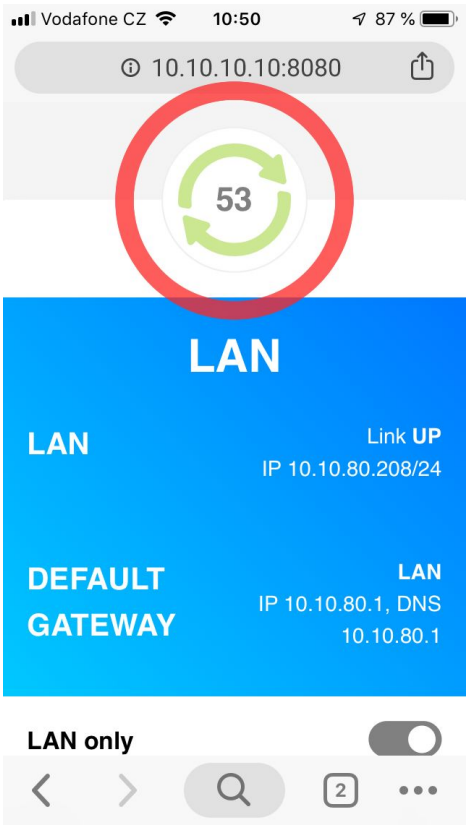
Login / pass: root / iqrf.aurorahub

Please change your password (command *"passwd"*) right after the first login!

Web based configuration

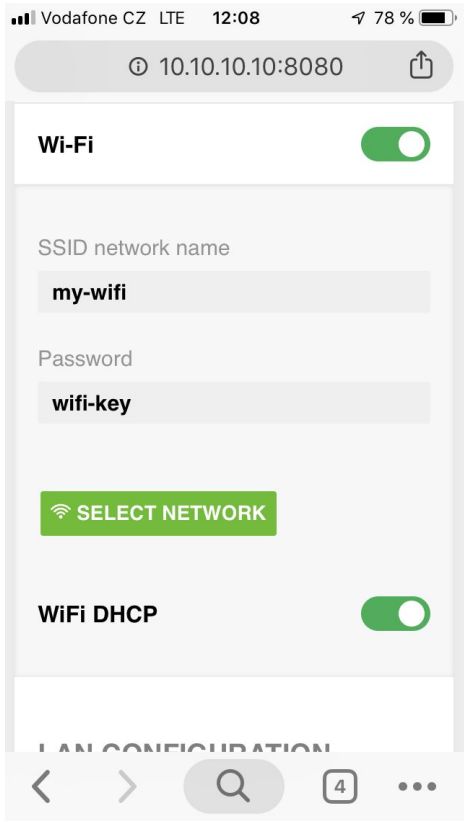
Preinstalled netconnect software is a tool intended to configure WiFi network client without having straight access to the system console. This application creates its own configuration Wi-Fi access point (AP) called **aurora-netconnect.** Connect to this AP via notebook / smartphone / tablet and access web configuration panel by typing IP address http://10.10.10.10:8080 to the web browser address bar. You can see this screen:

[1] *applicable for gateways issued from 7/2019*
[2] *applicable for gateways issued from 1/2019*



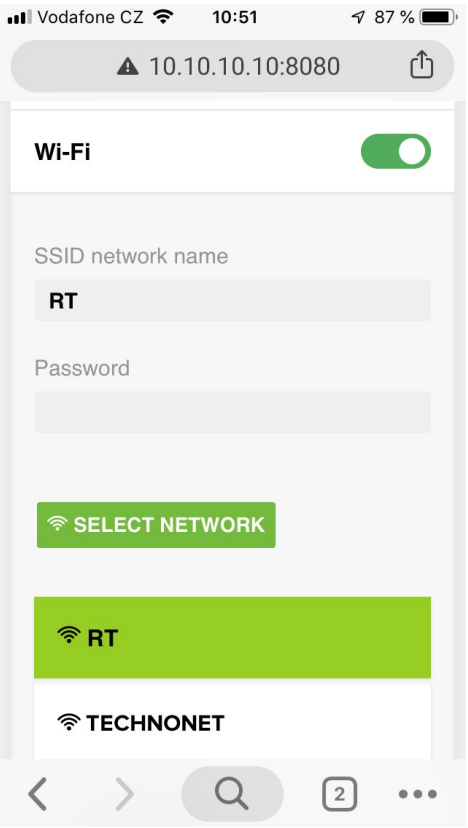
Landing page and Wi-Fi AP timeout

- By clicking the button in red circle, Wi-Fi AP active time will be prolonged.
- Highlighted part (in this time blue colour) displays current network status.



Wi-Fi connection settings

- Connection details can be entered manually or can be prefilled via **“Select network”** button.

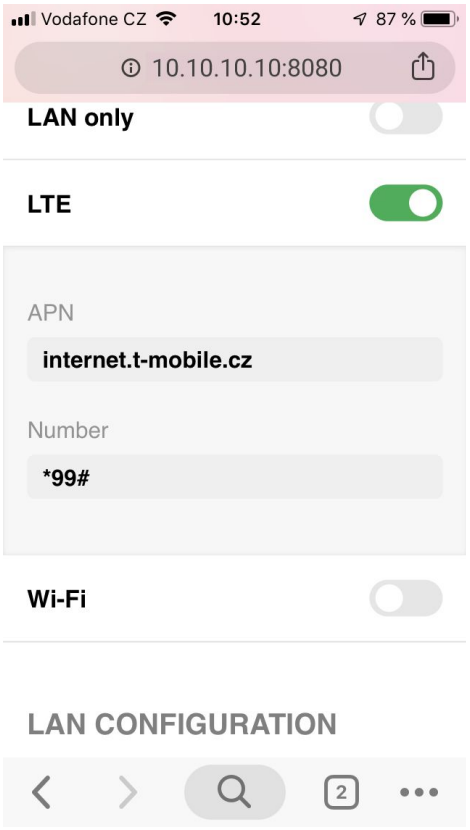


Usage of “Select network” button

- After clicking the **“Select network”** button, the available networks will be displayed.
- Select the network by clicking on its name.
- SSID will be prefilled after that.
- Enter the network password (if required for connection to the selected Wi-Fi network).
- Once the Wi-Fi client configuration is done, AuroraHub IoT Gateway switches back to the client mode connecting the preconfigured network with SSID and password.
- If typed Wi-Fi network configuration is valid, AuroraHub IoT Gateway will use this Wi-Fi connection to the Internet.

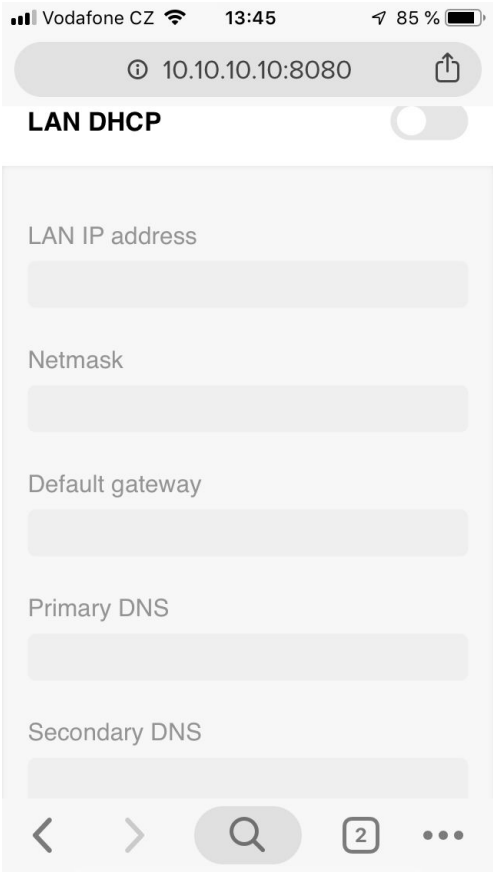
Wi-Fi IP settings

- You can also set custom IP settings for Wi-Fi (if DHCP is not enabled in your Wi-Fi AP, e.g. home router).
- Enter valid IP addresses, then save the configuration by clicking on “Save settings” at the bottom of the page.



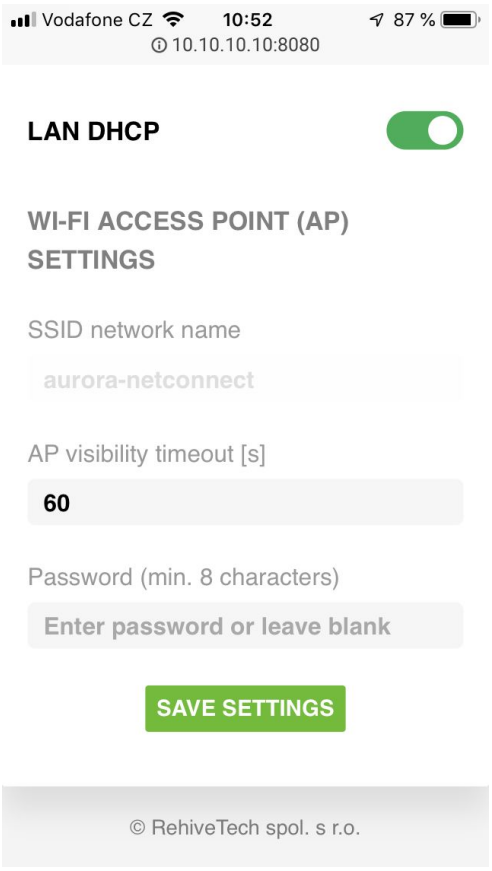
Connection via LTE

- Fill the form up with necessary data required for connection to the LTE network (utilizing LTE USB modem/dongle).



LAN IP settings

- Fill the configuration form up for custom LAN settings if you need.
- Enter valid IP addresses, then save the configuration by clicking on **“Save settings”** at the bottom of the page.



Wi-Fi access point (AP) settings

- Set AP timeout (60 in default).
- You can also set a Wi-Fi AP password or leave it blank for the passwordless setting.
- By clicking the button **“Save settings”** at the bottom of the page the entire configuration will be submitted.

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