



LORATECH
Outdoor Gateway ALU

Quick Start Guide
Ver. 2018-11-04-12

IMPORTANT!

Do not the gateway power-on, without antenna connected! The LoRa radio may be damaged!

1) First run

Connect the antenna to the device with coaxial cable with impedance 50Ω, connector N-female. Link the data cable (recommended cat5e FTP) with the included PoE adapter injector.

2) Setting up IP address

- After powering up, the Gateway tries to obtain an IP-address by using a DHCP discovery procedure.
- If the network does not support DHCP, the Gateway will use a fallback address of 192.168.1.77.
- Connect in with SSH client (e.g. PUTTY) with default login (loratech/loratech).
- By editing the file /etc/dhcpd.conf a customized IP configuration can be setup. A customized setup may look like this:

```
# Custom static IP address for eth0.  
interface eth0  
static ip_address=10.0.0.100/24  
static routers=10.0.0.1  
static domain_name_servers=8.8.8.8
```

3) Setting up LoRa servers

The servers on which the data will be sent can be defined in file:

/opt/loratech-gateway/bin/local_conf.json

The file may look like this:

```
{  
  "gateway_conf":  
  {  
    "gateway_ID": "B827EBFFFE019AF0",  
    "servers": [  
      {  
        "server_address": "app.loratech.cz",  
        "serv_port_up": 1700,  
        "serv_port_down": 1700,  
        "serv_enabled": true  
      },  
      {  
        "server_address": "lora.plzen.eu",  
        ...  
      },  
    ],  
    "ref_latitude": 49.12356,  
    "ref_longitude": 13.12345,  
    "ref_altitude": 125,  
    "contact_email": "info@rvtech.cz",  
    "description": "something"  
  }  
}
```

4) Changing the password

It is advisable to change your password as soon as possible! The password change with the command:
passwd

5) Setting up 4G connection (optional)

The configuration for GSM / LTE is in file

/etc/wvdial.conf

The file may look like this:

```
[Dialer play]
Modem = /dev/ttyUSB1
Baud = 115200
Init1 = ATZ
Init2 = ATQ0 V1 E1 S0=0
Init3 = AT+CGDCONT=1,"IP","internet"
Stupid Mode = 1
ISDN = 0
Dial Command = ATD
Modem Type = Analog Modem
New PPPD = yes
Phone = *99***I#
Stupid mode = yes
Username = "blank"
Password = "blank"
```

The options where is important for you GSM operator settings:

Last word in Init3 command – “internet” as APN

Username and password