



- The LoRa Gateway has the LoRa receiver / transmitter function and the server, receives / transmits messages Lora and processes it on your own server.
- Contains LoRa Network Server (LNS) software for setting and managing end devices.
- By default, the server is open and unsecured - it is designed for further customer integration.
- The Gateway (or BTS - Based Transceiver Station) serves as a tool to create your own LoRa home network for the Internet of Things.
- It collects requests from end devices, and evaluates them.
- The LoRa Gateway Server can be assigned to thousands of IoT terminal devices communicating on this network.
- Assignment of end devices is done through a web portal, which then records all requirements from individual sensors.
- The antenna provides radiation in all directions.
- The gateway is also designed for outdoor use.
- For proper Gateway functionality, you need a connected Ethernet cable and a permanent 48 V DC / PoE power supply.

| Technical parameters | | AirGTW-LNS |
|----------------------------|---|------------|
| Power supply | | |
| Supply voltage: | 48 V DC / active PoE | |
| Input: | max. 10 W | |
| Connection | | |
| Connection: | PoE connector with RJ 45 power supply according to the 802.11af standard. | |
| Communication | | |
| Protocol: | LoRa | |
| Transmitter frequency: | 868,1 MHz, 868,3 MHz, 868,5 MHz | |
| Signal Strength: | 20 dBm | |
| Encryption: | AES128 | |
| Range in open space: | Approx. 10 km | |
| Transmission power (max.): | 25 mW / 14 dBm | |
| Hardware | | |
| Baseplate: | Rapsberry Pi 3 | |
| Max. connected nodes: | thousands | |
| OS: | Linux | |
| LoRa chip: | Semtech SX-1301 s SX-1257 | |
| Antenna | | |
| Emission: | omnidirectional VGD4 | |
| Material: | high quality fiberglass | |
| Gain: | 8 dBi | |
| Polarization: | vertical | |
| Other parameters | | |
| Working temperature: | -20 ... + 60 °C | |
| Relative humidity: | 95 % | |
| Montage: | on the boom Ø 30-50 mm | |
| Protection degree: | IP56 | |
| Overvoltage category: | III. | |
| Pollution degree: | 2 | |
| Dimension without antenna: | 280 x 213 x 90 mm | |
| Weight: | 1731 g (without antenna) | |
| Antenna length: | 660 mm | |
| Antenna Weight: | 1400 g | |

Device description

