AirGTW-LNS | LoRa Gateway LNS for LoRaWAN networks

Technical parameters	AirGTW-LNS
Power supply	
Supply voltage:	48 V DC / active PoE
Input:	max. 6 W
Connection	
Connection:	PoE connector with RJ 45 power supply according to the 802.11af standard
Communication	
Protocol:	LoRa
Transmitter frequency	
- UPLINK:	868,1 MHz, 868,3 MHz, 868,5 MHz
- DOWNLINK:	869,525 MHz
Encryption:	AES128
Range in open space:	Approx. 10 km
Transmission power (max.):	500 mW / 27 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

- 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.

Device description