



- LoRa Gateway has the LoRa receiver / transmitter function and the packet forwarder, receives / broadcasts LoRa messages and transmits them to the assigned server.
- LoRa Gateway serves as a transceiver for customers who have their own server solutions.
- 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 then transfers them to a pre-determined Server.
- 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-FWD
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	868,1 MHz, 868,3 MHz, 868,5 MHz	
- UPLINK:	869,525 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	

Device description

