



LORATECH Outdoor Gateway ALU Product Datasheet

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What is LoRaWAN Gateway LORATECH?

LORATECH Outdoor Gateway is an outdoor gateway for professional IoT (Internet of Things) networks based on LoRaWAN – 868MHz technology.

How does LoRaWAN Gateway LORATECH work?

The fully outdoor unit will provide coverage with its signal in a radius of several kilometers, using a suitable antenna a smaller municipality can be covered by one unit. All electronics are fitted in a metal chassis with IP66 protection. Gateway is based on the IMSTs IC880A concentrator that uses the SX1301 chip provided by Semtech. The concentrator communicates through the SPI interface with Raspberry PI3. A reduction plate, specially developed by RVTech s.r.o. for use of GW at ISP access points, is used as an interlink. Each point enables up to tens of thousands of things to be connected. Through the gateway the data is encrypted so communication is secure.

Gateway exists in two variants:

- **LORATECH Outdoor Gateway ALU** – basic outdoor version with ethernet communication interface and POE
- **LORATECH Outdoor Gateway ALU 4G** – the design is additionally equipped with a 4G modem

TECHNICAL DATA

Material of body	Aluminium
Environment Resistance	IP65
Product Dimensions	280 x 220 x 100 mm
Weight	1,8 kg
Operating Temperature	-20 °C to +50 °C
Mounting Diameter	28 - 58 mm
Input Voltage	Passive POE, 12 - 48 V
Max. Power consumption	7 W
RF frequency	868 MHz (863 - 870 MHz)
Sensitivity	Down to -138 dBm
Output power level	Up to 20 dBm
RF impedance	50 Ω
Ethernet connector	RJ45
RF connector	N - female
Operation system	Debian / Raspbian
Default user	loratech
Default pass	loratech
Default IP (Fallback)	192.168.1.77
Configuration protocol	web / port 80, SSH / port 22

LORATECH Outdoor Gateway ALU

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