



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

# LORATECH Outdoor Gateway ALU

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