



# LORATECH Indoor Gateway Product Datasheet

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Version from 6.4.2020



## **What is LoRaWAN Gateway LORATECH?**

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

## **How does LoRaWAN Gateway LORATECH work?**

The indoor 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. 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. Each point enables up to tens of thousands of things to be connected. Through the gateway the data is encrypted so communication is secure.

## TECHNICAL DATA

Material of body	<b>Aluminium</b>
Product Dimensions	<b>46 x 105 x 124 mm</b>
Weight	<b>367 g</b>
Operating Temperature	<b>+15 °C to +35 °C</b>
Relative Humidity	<b>20 % to 75 % (non condensing)</b>
Supply Voltage	<b>5 V DC</b>
Current Consumption	<b>Depending on the op. mode up to 2,3 A</b>
RF frequency	<b>868 MHz (863 - 870 MHz)</b>
Max. RF Input Power	<b>-15 dBm</b>
Max. Output Power	<b>20 dBm</b>
RF impedance	<b>50 Ω</b>
Ethernet connector	<b>RJ45</b>
USB connector	<b>4x USB 2.0</b>
RF connector	<b>SMA - female (for antenna CTA868/2/DR/SM/S2)</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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