

L-GATEWAY EU

Ordering info: RE.41.LGTW

Modular outdoor IoT gateway

Doc.nr.: SA2018LGATEWAY v1.0

Network Infrastructure



The L-gateway is a ruggedized modular outdoor LoRa® gateway | base station that enables versatile wireless connectivity to your Internet of Things (IoT) applications. LoRa RF technology has been pioneered by Semtech and is a 2-way wireless solution, operating in the license exempt ISM bands, that complements M2M cellular infrastructure. LoRa provides a low-cost way to connect battery operated and mobile devices to the network infrastructure.

The function of the L-gateway is to forward received RF packets to an external server through a IP/UDP link. It also transmits RF packets that are sent by the external server. The L-gateway is standard equipped with one LoRa radio, a GPS receiver and an advanced 3G modem. Optionally it can be expanded with two additional radio's to turn the unit into a sectorized base station.

Network Infrastructure

Connectors

Ethernet & PoE	Watertight RJ45
RS-485	Watertight RJ45
LoRa (1, 2 or 3 radio's)	1, 2, or 3 N-connector(s)
Optional: GSM and GPS connectors	N-connector
All RF type N-connectors can be replaced with 4.3-10 type connectors (specify when ordering)	

Power Requirements

Power Adapter	48V PoE
Unit ships with a 100-240V AC to PoE adapter. A 48V PoE adapter can be ordered optional (specify when ordering)	

Environmental


Operating Temperature	-40° to +85°C with no derating
Storage Temperature	-40° to +90°C
Relative Humidity	5% to 95% non-condensing
Altitude	0-10,000 feet
Cooling	Convectional - non vented case

Mechanical

Case Dimensions	422L x 208W x 105H (mm)
Weight	1500 grams, 53 Ounces

Features

Ruggedized modular design with 1, 2 or 3 radio's
868MHz (Europe) long range operation, up to 15 km range in line-of-sight and < 2 km in urban environment
8-channel design using SX1301 and 2x SX1257 chipset
Powered by 220V PoE or 48V PoE
RS-485 interface for on-site trouble shooting
Onboard Quad band 3G radio and quad band 3G antenna
Onboard GPS uBlox Max7W receiver and GPS antenna allowing for GPS time-sync needed for class-B operation
Web interface for local & remote configuration
Remotely configurable and OTA software upgradeable
Default "customer" configuration during production
Powder coated aluminum enclosure with pole mounting clamps and ground terminals
2 Year Warranty

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