



Modular Outdoor LoRa® Gateway

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 2G/3G modem. Optionally it can be expanded with two additional LoRa® radio's to turn the unit into a sectorized base station.

To facilitate GPS-less localization services every L-gateway is synchronized with sub-microsecond precision to any of its neighbors through RFI's Consensus Protocol (RCP)TM. The L-gateway has an external accessible RS-485 interface to allow easy configuration by an engineer on-site.

-							
С		'n	n	ρ			TK.
-	9			9	9	-	4

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 100-240 AC to PoE adapterA 48V PoE adapter can be ordered optional (specify when ordering)

Environmental

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 Dimensions422L x 208W x 105H (mm)Weight1500 grams, 53 Ounces

Features

- ✓ Ruggedized modular design with 1, 2 or 3 LoRa® radio's
- 868MHz (Europe) long range operation, up to 15 km range in line-of-sight and < 2 km in urban environment</p>
- ✓ Powered by 220V PoE or 48V PoE
- ✓ RS-485 interface for on-site trouble shooting
- ✓ GPS and 2G/3G radio's on-board
- ✓ GPS and 2G/3G antenna on-board (RF connector optional)
- Multiple VLAN & VPN support
- LoRa® client localization support
- ✓ Web interface for local & remote configuration
- ✓ Remotely configurable and OTA software upgradeable
- ✓ Default "customer" configuration during production
- ✓ Pre-integrated with ThingPark[™] Wireless from Actility
- Powder coated aluminum enclosure with pole mounting clamps and ground terminals
- ✓ 3 Year Warranty



Semtech, the LORa logo and LoRa® are registered trademarks of Semtech Corporation. ThingParkTM is a trademark of Actility.

All information contained herein is believed to be accurate and is subject to change without notice. No responsibility is assumed for its use. RFI Engineering reserves the right to make changes without notice, design, product components, and product manufacturing methods. Global Sales information RFI Engineering: +31 36 750 8268 or sales@rfi-engineering.com. Copyright 2015 All Rights Reserved. RFI Engineering B-V., Markerkant 13-76, 1314 AN Almere, The Netherlands, www.rfi-engineering.com.