



- LoRa Multichannel Gateway for ReliaGATE
- EU and NA Bands
- Long Range (15 km/10 miles)
- ISM Band Scan
- Industrial Grade
- Open Platform



Features

- LoRa Gateway for ReliaGATE** - Designed to be a companion for the ReliaGATE 10-12, expands the gateway capabilities with LoRa
- EU and NA Bands** - Supports global deployment with European 868MHz (863-870MHz) and North American 915MHz (902-928MHz) bands
- Long Range** - Covers long distances: high power radio with 15km / 10miles line of sight range (2km / 1.5miles in urban conditions); European ISM transmit power / duty-cycle limitations are supported
- ISM Band Scan** - Provides optimal performance: allows end node frequency change to improve interference rejection and dynamic link rate adaptation
- Industrial Grade** - Compact and sturdy, with reliable terminal block interfaces and a wide operating temperature range
- Open Platform** - Supported by Everyware Software Framework (ESF), the IoT Java/OSGi based-middleware for IoT Edge Gateways that accelerates gateway development and enables remote management

Description

The ReliaLORA 10-12 is a LoRa Gateway module that adds LPWAN capabilities to the ReliaGATE 10-12. Based on the Semtech SX1301 data concentrator, a multi-channel high performance transmitter/receiver, the ReliaLORA 10-12 is the fastest way to bridge an LPWAN with any cloud application; it is fully compatible with existing LoRa infrastructures.

The ReliaLORA 10-12 is an industrial grade device that supports wide temperature range (-20 to +70°C) and comes in an impact-resistant ABS enclosure. Its compact design ensures simple deployment even in the most space-constraint applications.

The ReliaLORA 10-12 is a global device that supports European and North America ISM bands; its long range radio reaches up to 15km / 10miles in unobstructed applications. In difficult environments, such as urban areas with multiple building its penetration reaches a radius of 2km / 1.5miles.

Robust interference rejection and dynamic link rate adaptation dramatically improve performance in crowded networks; further efficiency is provided by the Listen Before Talk protocol, which allows multiple users on the same channel.

The ReliaLORA 10-12 is supported by Everyware Software Framework (ESF), a commercial, enterprise-ready edition of Eclipse Kura, the open source Java/OSGi middleware for IoT gateways.

Distributed and supported by Eurotech, ESF adds advanced security, diagnostics, provisioning, remote access and full integration with Everyware Cloud (EC), Eurotech's IoT integration platform (separately available).

Ordering code: RELORA-10-12-xx

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PROCESSOR	Data Concentrator	Semtech SX1301	
I/O INTERFACES	Exp. Connector	Yes, for Side Expansion Modules	
RADIO INTERFACES	LoRa Bands	European 868MHz (863-870MHz)	North American 915MHz (902-928MHz)
	Transmission Power	- 6 to 25 dBm	- 6 to 27 dBm
	Receiver Sensitivity	-140 dBm Max	-137 dBm Max
	Antennas (External)	1x RP-SMA	
POWER	Consumption	3W Max	
ENVIRONMENT	Operating Temp	-20 to +70°C	
	Storage Temp	-40 to +85°C	
CERTIFICATIONS	Regulatory	CE	FCC, ISED
	Safety	EN 62368, UL 60950 (§)	
	Environmental	RoHS2, REACH	
	ISM Radio	CE (RED)	FCC, ISED
	Ingress	IP40	
MECHANICAL	Enclosure	Material: ABS - Color: Aluminum	
	Dimensions	96x21x45mm (LxWxH) - With Connectors	

Software

SOFTWARE	IoT Framework	Everyware Software Framework (Java/OSGi)
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(§) UL, NRTL listing Factory Option.