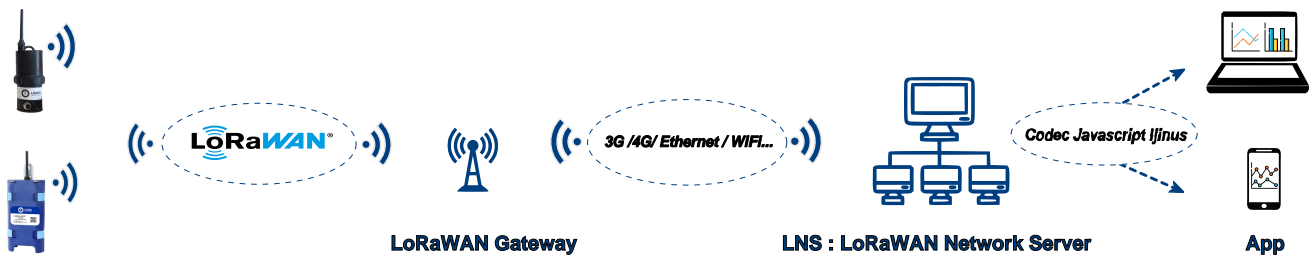


LoRaWAN communication conversion kit

The **LoRaWAN** protocol is a wireless communication technology designed to connect loggers equipped with LoRa communication cards over long distances with low energy consumption. It is based on LoRa radio modulation, which allows small amounts of data to be transmitted over several kilometers.



LoRaWAN Communication card features

Specification	LoRaWAN® 1.0.2
Security	LoRaWAN® End-to-end encryption (AES-CTR), Data integrity protection (AES-CMAC)
Device class	Classe A
LoRaWAN function supported	OTAA (Over-The-Air-Activation) ADR (Adaptive Data Rate) (SF7 to SF12) Adaptive Channel Setup
Link Budget (Difference between transmitted power and minimum RSSI sensitivity)	max. -137 dBm
Profil / Frequency	Europe 863-870 MHz (SF12 for RX2) - RX2SF12
Radio frequency transmission power	25 mW (+14 dBm) max
Regional parameter	RP001 1.0.2 Revision A
Message acknowledgment (Ack uplink) (Deactivated by default)	

LNS compatible

• The Thing Network (TTN)	• LiveObjects	• Wiotys
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For all inquiries regarding other LoRaWAN network server providers, please contact us.

V4 series loggers equipped with a 2G/4G communication card can be fitted with a LoRaWAN communication card simply by installing the conversion kit.



LoRaWAN conversion kit

Kit composition

- V4 sensor cover equipped with an antenna
- Electronic card
- O-ring
- Desiccant bags