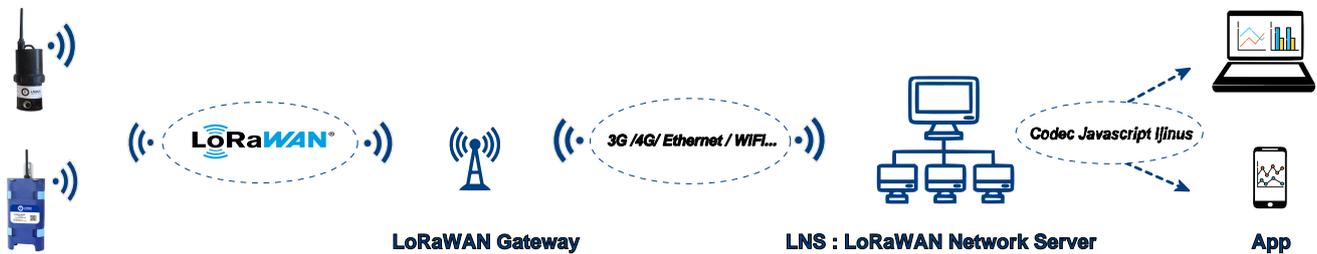


# LoRaWAN communication conversion kit

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	
<b>Specification</b>	LoRaWAN® 1.0.2
<b>Security</b>	LoRaWAN® End-to-end encryption (AES-CTR), Data integrity protection (AES-CMAC)
<b>Device class</b>	Classe A
<b>LoRaWAN function supported</b>	OTAA (Over-The-Air-Activation) ADR (Adaptive Data Rate) (SF7 to SF12) Adaptive Channel Setup
<b>Link Budget</b> (Difference between transmitted power and minimum RSSI sensitivity)	max. -137 dBm
<b>Profil / Frequency</b>	Europe 863-870 MHz (SF12 for RX2) - RX2SF12
<b>Radio frequency transmission power</b>	25 mW (+14 dBm) max
<b>Regional parameter</b>	RPO01 1.0.2 Revision A
<b>Message acknowledgment</b> (Ack uplink) (Deactivated by default)	

LNS compatible		
• <b>The Thing Network (TTN)</b>	• <b>LiveObjects</b>	• <b>Wiotys</b>

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.



V4 conversion kit

Kit composition
<ul style="list-style-type: none"> <li>• V4 sensor cover equipped with an antenna</li> <li>• Electronic card</li> <li>• O-ring</li> <li>• Desiccant bags</li> </ul>