LoRaWAN® Gateway, LORCOM

code: SP045



The LoRaWAN® Gateway LORCOM is a compact gateway designed for indoor use, enabling wireless communication with LoRaWAN® devices and data transmission to higher-level systems.

Thanks to its integrated network server, the gateway can operate independently and forward data via Modbus TCP, BACnet/IP and MQTT protocols. It supports up to 1,000 LoRaWAN® devices.

The gateway offers easy configuration via a web interface, an integrated Node-RED tool and the option to connect to an external network server. Key benefits include low power consumption, PoE power supply, operation without license fees and free firmware updates.

Made in the Czech Republic.

Technical data

GENERAL PARAMETERS	
LoRaWAN® frequency band	EU863–870
Maximum power consumption	2.7 W
Ethernet	10/100/1000 Mbps
LoRa antenna	External, 3 dBi, SMA connector
LoRaWAN® chipset	Semtech SX1302
Number of communication channels	8
Receiver sensitivity	−125 dBm (SF7), −139 dBm (SF12) at 125 kHz
Number of supported LoRaWAN® devices	1
Supported LoRaWAN® device classes	A, B, C
Processor	NXP Arm Cortex-A55, up to 1.7 GHz
Memory	1 GB RAM, 8 GB eMMC
Operating system	Linux (Yocto)
POWER SUPPLY	
DC connector input voltage	15–30 V DC
Active PoE	IEEE 802.3af compliant
Passive PoE	15–48 V DC
MAIN TECHNICAL DATA	
Operating temperature	−20 °C to +70 °C
Operating relative humidity	Max. 80%
Protection rating	IP20
Dimensions	190 × 86 × 35 mm (without antenna)
Antenna dimensions	170 × 18 × 10 mm
Weight	260 g (without antenna)
Housing material	ABS plastic, white
Real-time clock backup	Min. 72 hours in the event of a power failure

NETWORK FUNCTIONS AND INTEGRATION	
Integrated network server (NS)	Yes
External network server support	Yes (Packet Forwarder)
Communication protocols	Modbus TCP, BACnet/IP, MQTT
Integration with IoT platforms	AWS IoT Core, Azure IoT Hub, Google Cloud Pub/Sub
Configuration	Integrated web interface
Node-RED	Integrated
Data decoding support	ChirpStack v4 JavaScript codecs
Modbus register export	CSV
License fees	None