IOT Product Line

LoRaWAN™ Commercial Gateway

LCG-1

EU 868 MHZ

ProEsys presents the latest generation of innovative LoRaWAN™ Gateway for Commercial IOT applications. Its design and construction makes it ideal for installation in home/ commercial environments typically encountered in low-entry applications.

It is ideally suited for home and standard markets: home and building automation, simple networks and indoor applications.

It is fully interoperable with LoRaWAN™ compliant devices and with ProEsys or 3rd party network servers.

It is suitable for indoor installations or, with the proper external enclosure, for outdoor installations. The LCG-1 has commercial temperature range, RF filtering.

Wideband receiver (up to 8 simultaneous channels) with high RF sensitivity for improved range coverage. The integrated RF power amplifier, capable of up to 0.1 Watt, can reach the outermost devices.

FEATURES

Commercial Grade

Can be installed in any part of the network, mostly in home and commercial environments.

Mechanical design

UL94V-0 self estinguishing PPO and PC material.

APPLICATIONS

- Home
- Commercial
- Building automation
- Smart Agriculture
- Transportation
- Asset Tracking

SPECIFICATIONS

Main Control Unit	Sitara™ Cortex®-A8 1GHz (2000 MIPS)
Power supply	5 VDC with external wall mount adapter
LoRaWAN™ RF Module	Semtech® chip based
Operational RF Interface	863 -- 870 MHz
N° of simultaneous RF channels	8 ch., 125 KHz and 500 KHz channel BW
Supported protocol	LoRaWAN™ 1.0
Max TX Power	+20 dBm ERP (0.1W)
RX Sensitivity	-136 dBm with additional bandpass filter
Average power consumption	5W
Antenna connection	N-type, Output impedance 50 Ohm
Time Synchronization	NTP Protocol over IP
RF antenna	SMA-type connector, impedance 50 Ohm
Data connections	Ethernet RJ-45 / WiFi
OS	Debian Linux GNU
Environmental resistance / Operating temperature	Indoor use / 0 to + 70 °C
Dimensions / Weight	90 x 107 x 33mm / 1 Kg

Specifications subject to change without notice

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