Landis + Gyr LoRa Module

Part Code	Name	Meter	Output
EL410DC	Elvaco CMi4110 L+G UH50 LoRa MCM	L+G UH50	LoRa

The rapid growth of IoT ("Internet of things") has resulted in new communication techniques, specifically developed to meet the growing demand of high energy-efficiency and long range. LoRaWAN is one such technique. CMi4110 is mounted inside a L+G UH50/UC50 to deliver meter data to a receiving server via a LoRaWAN network. The product is energy-efficient (battery-life of at least 11 years), has a long communication range (up to 25 km) and is easily retrofitted inside an already-deployed meter. With CMi4110, Elvaco offers an MCM designed for customers that require a cost-effective solution with lesser demand for bandwidth.

Managed Services

Meter Data Management

Billing Solutions

PAYG Management

Online Account Management

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Features:

- Suitable for L+G UH50/UC50 meters

- LoRa Output

- Battery Powered – 11 Years

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Technical Specification	
Mechanics	
Protection Class	IP 54
Dimensions (w x h x d)	80 x 32 x 23 mm
Mounting	In Landis+Gyr UH50/UC50 module slot 2
Weight	35 g
Electrical connections	
Supply voltage	Internal meter battery (D cell) or PSU (Elvaco CMip2110 230V, L+G WZU-AC230- xx or WZU-ACDC24-00)
Electrical characteristics	
Nominal voltage	3.0 - 5.0 VDC
Power consumption (max)	40 mA
Power consumption (sleep mode)	2,2 μA
Environmental specifications	
Operating temperature	+5 °C to +55 °C
Operating humidity	0 to 93 % RH, no condensation
Operating altitude	0-2000 m
Pollution degree	Degree 1
Usage environment	Indoors
Storage temperature	-20 °C to +60 °C
Radio characteristics	
Frequency	868 MHz
Output power	14 dBm
Receiver sensitivity	-135 dBm
LoRaWAN characteristics	
Device class	Class A, Bi-directional
LoRA version	1.0.2
Activation	OTAA or ABP
Data rate	DR0-DR5 (250-5470 bit/s)
User Interface	
Green LED	Status
Red LED	Error
Push button	Start-up / reboot / switch off device
Configuration	NFC via Elvaco OTC app or downlink data
Approvals	
EMC	EN 301489-1, EN 301489-3

Data Collection

Wired Networks

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