CMi6110

WZU-NB-IoT Integrated MCM for Landis + Gyr UH50/UC50, NB-IoT

CMi6110 is a meter communication module, mounted inside a Landis + Gyr UH50/UC50. As soon as the device has been mounted and deployed it will start to deliver meter data to a receiving system via a NB-IoT network. The product is easily configured through Elvaco OTC mobile app or via DM-system, has several different message formats and is ideal for applications where long range is required. The CMi6110 can be battery operated for up to 10 years. Meter data delivery and device management utilizes standard protocols, such as MQTT-SN and LWM2M for easy integration to existing systems.

Technical specification

Mechanics

Dimensions (w x h x d)	84 x 37 x 12 mm
Mounting	In Landis+Gyr UH50/UC50 module slot 2
External antenna connector	MCX female
SIM card	Slide, size Nano

Electrical connections

Mains supply	**Elvaco PSU:** CMip2110
	Landis +Gyr PSU: WZU-AC230-xx
24 V supply	**Elvaco PSU:** CMip2110
	Landis +Gyr PSU: WZU-ACDC24-00
Battery supply	**NB-IoT** Landis+Gyr battery+holder: WZU-NBIoT-BAT
	Meter Landis+Gyr: WZU-BC+GUM
Battery life time	7+1 year The battery life time is based on ECL0 and hourly reading sent once/day.

Electrical characteristics

Nominal voltage PSU	100-230 VAC / 24VAC
Nominal voltage Battery	3 VDC
Current consumption (max)	400 mA
Current consumption (sleep mode)	6 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 (module)

Mobile network

Band	20, 8, 3
3GPP	Release 14 (NB2)
Transmit power	Maximum 23.0 dBm
Receiver sensivity	-135 dBm

User interface

Green LED	Start-up, Network connection
Red LED	Start-up, Error
Push button	Start-up, Reboot
Configuration	• NFC via Elvaco OTC App
	• Via LwM2M (Elvaco Evo DM-system, or third-party DM-system)
	• Preconfig on delivery

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