

# CMi1020W

*Integrated MCM for L+G E350, Wireless M-Bus*



The CMi1020W is an integrated meter connectivity module (MCM) for Landis+Gyr E350 electricity meters. By enabling the meter to communicate as a wireless M-Bus slave, CMi1020W becomes very suitable for projects where a high flexibility is needed at an attractive price point, for example within sub-metering or meter rooms.

## READY TO USE

The CMi1020W is easily installed and is designed to automatically work together with all Landis+Gyr E350 electricity meters. After power-up, CMi1020W will start to transmit wireless M-Bus messages with meter readings.

## STANDARD OPEN PROTOCOLS

The standardized interface for sending metering information makes the CMi1020W compatible with all wireless M-Bus receivers on the market that complies with standard EN13757.

## FLEXIBLE

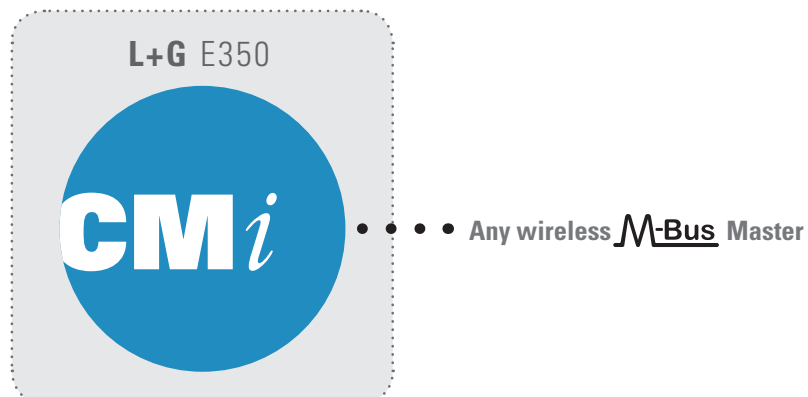
The CMi1020W has a built-in antenna, does not need any cables and supports up to four different tariff rates. Its flexible design offers a wide range of applications.

## COST EFFECTIVE

The integrated solution reduces the amount of equipment necessary in field, which lowers both installation and initial setup costs.

## CUSTOMIZED SOLUTION

The CMi1020W can be ordered with a default or a custom configuration. The default configuration is suitable for most applications and optimized for excellent range performance. A custom configuration allows for a complete customization of all configuration parameters and transmitted meter data.



### Mechanics

Casing material	Polycarbonate
Protection class	IP20
Dimensions (w x h x d)	166 x 92 x 35 mm
Weight	125 g
Mounting	In Landis+Gyr E350 meter
Antenna	Built in, or optionally external via SMA-f

### Electrical connections

Supply voltage	Supplied from E350
Rate inputs	Screw terminal 0.25-1.5 mm <sup>2</sup>

### Electrical characteristics

Nominal voltage	220-240 VAC (+/- 10%)
Frequency	50/60 Hz
Power consumption (max)	<0.5 W
Power consumption (nom)	<0.3 W
Installation category	CAT 4
Rate inous low voltage	<10 VAC
Rate input high voltage	>24 VAC
Rate input max voltage	230 VAC
Rate input minimum detection time	1 s

### Environmental specifications

Operating temperature	-40 °C to 70 °C
Operating humidity max	80 % RH at temperatures up to 31 °C, decreasing linearly to 50 % RH at 40 °C
Operating altitude	0-2000 m
Pollution degree	Degree 3
Usage environment	Indoors
Storage temperature	-40 °C to 70 °C

### User interface

Green LED	Power
Red LED	Error

### M-Bus

Interfaces	M-Bus slave
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### M-Bus

M-Bus standard	EN 13757-4. Communication by T1 (default) or C1
Frequency	868.95 Hz
Addressing modes	Electricity meter's secondary address
M-Bus information	Default or custom configuration
Transmit power	25 mW
Transmit interval	16 to 510 s (default: 16 s)
Encryption	Unencrypted (default) or encrypted

### Integration

Meter implementation	Landis+Gyr E350
Maximum number of connected meters	1

### Approvals

EMC	EN 31489-1, EN 31489-3
Safety	EN 61010-1-2010, CAT 4