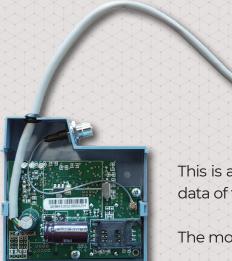




Cellular modems for Landis+Gyr® E350, E450, E550 electricity meters (type ZxG 3xx, ZxG 4xx) - CDMA 450 / 2G / 3G / 4G / LTE Cat.M / Cat.NB

Cellular modem designed specifically for the remote automatic meter reading of Landis+Gyr[®] E350, E450, E550 (type Zxx 3xx and Zxx 4xx) electricity meters.

The device can be ordered with various cellular module types. In collaboration to provide state-ofthe-art cellular modems for its customers in Europe, WM Systems was selected as one of the OEM suppliers of Landis+Gyr.



The product's case was designed to fit under the enclosure of the meter and it connects through an RJ45 data connector. As part of an AMR/AMI solution, the modem provides a stable, transparent connection to the meter through which the HES can pull consumption data from the meter. The modem can send data by CSData call (2G) also.

This is an ideal solution for remote readout of registers and consumption data of the connected electricity meters, plus download of load profile.

The modem is configurable by our WM-E Term® software.

MAIN FEATURES

- 2G, 3G, 4G LTE Cat.1 / Cat.4, LTE Cat.M / Cat.NB wireless modules (order option) - with "fallback" feature
- It fits perfectly under the terminal cover of the meter and fastened securely (sealed and separated from meter)
- Design & connectivity meets with meter standards
- Compatibility with Landis & Gyr[®] Zxx 3xx, Zxx 4xx type electricity meters (E350, E450, E550 models)
- DC power supply from the metrology
- RS232 transparent data connection (RJ45)
- "Pull" data sending (for HES request), CSData call
- Immediate alarm- and SMS notification
- Remote & safe firmware updates
- Downloadable WM-E Term[®] configuration tool
- Supercapacitor option (for Last GASP SMS notification)
- Self-recovery: embedded watchdog, self recover from the faults, ensuring normal operation of the device

APPLICATION

- UTILITY COMPANIES
- SMART METERING
- METERING DATA
- TRANSMISSION TO HES
- INDUSTRIALMEASUREMENT



WM-E2SL



DESIGN AND OUTFIT

- The modem is installable into the meter enclosure
- RS232 interface connection (RJ45 connector)
- DC power supply by meter
- Supercapacitor for Last GASP notification (order option)
- SMA or FME antenna connector outfit (by order request)

COMPATIBILITY

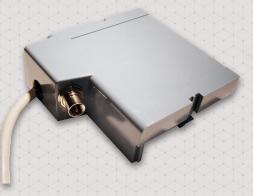
Landis+Gyr® ZxG3xx, ZxG4xx, ZxD3xx, ZxD4xx (E350, E450, E550 type) meters

OPERATION

- IEC 62056-21 protocol, transparent data transmission
- "Pull" data sending (for HES request)
- CSData call (2G)
- Immediate SMS notification

ACCESSORIES (ORDER OPTION)

- Optional SMA / FME antenna (50 Ohm) upon request
- WM-E Term[®] software (mass fw updates, actualization of settings)
- You can manage the device by Device Manager[®] software



	WM-ETerm - Industrial RS485 modern	(LE910C: 2G, 3G, 4G / LTE)					-		×				
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1 g	Delay of accepting call (rings)			3									
Connection type	Password for CSD call												
	SIN PN												
2	Cellular network												
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AT interface	Password for CSD call:												
ATA	Number of rings before accept a call (CSD):	3 0											
	Type of call:	Data ~											
	Answer incoming voice calls as data calls (CSD) if set to true. Ignore voice calls otherwise:	0											
	Ok Cancel												
	Please select a connection!	•											

WM-E2SL* Power Voltage Power Current / Consumption		2G	3G	LTE Cat.1		LTE Cat.M / Cat.NB				
		 B-12V DC +15%/-15% (via R345 interface) 40mA (CatNB), 100mA (2C/3G), 200mA (LTE Cat.M), 330mA (LTE) @ 10 VDC / Max. consumption: 2W 								
	Internet module	• Telit GE910-QUAD V3	• Telit HE910-GL	Telit LE910C1-EUX	Telit LE910C1-EU	Telit ME910C1-E1				
communication	Bands / Frequency (MHz)	- CSM/GPRS: B5(850) / B8(900) / B3(1800) / B2(1900)	- GSM/GPRS/EDGE: 850/900/1800/1900 - UMTS/HSPA: 800/850/900/ - AWS1700/1900/2100	- LTE Cat1: B1(2100) / B3 (1800) / B7(2600) / B8(900) / B20(800) / B28A(700) - 3C: B1(2100) / B3(1800) / B8 (900) - 2C: B3(1800) / B8(900)	 LTE: B1(2100) / B3(1800) / B7(2600) / B8(900) / B20(800) / B284(700) UMTS: B1(2100) / B3(1800) / B8(900) GSM/GPRS: B3(1800) / B8(900) 	- LTE M1 & NB1: B3(1800) / B8(900) / B20(800)				
	Speed (DL/UL)	- GPRS: 80/40 kbps	- HSPA Cat.8/Cat.6: 7.2/5.7 Mbps - 3G: 384/384 kbps - 2G: 236/236 kbps	- LTE Cat.1: 10/5 Mbps - HSPA+: 42 Mbps - GPRS: 80/40 kbps	- LTE FDD Cat.1 rel. 9: 10/5 Mbps - 3G: HSPA+ - 2G	• LTE M1 UL/DL: 375/300 kbps • LTE NB1 UL/DL: 20-250/250 kbps				
	SIM card slot	- mini SIM card slot (2FF type)								
	Antenna connector	- External antenna connector (SMA / FME, 50 Ohm)								
ompatibility	Meter type	- Landis+Oyr® E350, E450, E550 type (ZxG3xx, ZxG4xx), ZxD3xx, ZxD4xx) meters								
nterfaces	Connectors	R345 (R522 compatible) Power supplied by meter (IOV DC power)								
	Protocol / Transmitting	- EN 62055-21, Mode C - 300/1200/2400/4800/9600 baud, auto, serial data speed,Pull" data sending CSData call (2G)								
	Notification	- Immediate alarm notification (in case of power outage)								
	Configuration	•WM-E Term [®] tool (local/mass parameter configuration, local/mass firmware update) •AT commands • Device Manager software (order option)								
peration	Indication	- 3 status LEDs								
	RTC Backup Battery*	Power outage < =1 hour After 1 hour the RTC will be supplied from the meter								
	Supercapacitor	- Order option (soldered to PCB, against power outages - in case of full power exhausting, the charging requires 2-5 minutes to operate)								
nvironment	Operating / Storage	• from -30/C* to +60/C at 95% rel.humidity (*in case of using TLS: from -20/C to +60/C)								
	Enclosure	· IP21 plastic transparent case, fits to meter								
onstruction	Dimension / Weight	- 86 x 86 x 30mm (without antenna and connector) - 106gr								

CE

The presented images on the datasheet are for illustration purposes only. The details on the data sheet are for general information purposes only. WM Systems LLc cannot be held liable for erroneous information on the datasheet. The announced information are subject to change without notice. For more details, please contact us.

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