WM-EIS SAPHIR

Cellular modem specifically designed for SAPHIR meters

UPGRADE THE MODEMS NOT THE SMART METERS!

All around the world mobile operators are shutting down 2G/3G networks in order to give way to 5G. Companies that operate smart meters with 2G/3G connectivity must plan the migration to the latest 4G LTE network which is well-positioned to dominate smart metering communication technologies in the upcoming years. The migration from GSM / UMTS to LTE has many advantages, for example, a shorter readout time due to the high-speed network with low latency.

Utilities have two options for migration: replace the meters or upgrade the modems! The 1st option comes with a high CAPEX, while the 2nd option is a future-proof solution that reduces TCO.

Our company develops a cellular modem that work smoothly and is fully compatible with different models of SAPHIR electricity meters. This device was designed to be fully compliant with all SAPHIR standards.

Our cellular modems represent a future-proof migration solution to the LTE network with the same functionality, on higher data speed. Configuration and firmware updates can be done remotely, minimizing the need for costly site visits.

This external modem can be mounted on DIN-rail and connected to the meter through an RJ45 cable. The modem can be configured to "push" the read out the data (current consumption, event log, load profile) from the connected meter and send it to the HES periodically via Internet (by using an APN) at the pre-programmed intervals. Data sending can be also triggered by an alarm (e.g. power outage, cover removal event).

The modem can be accessed remotely through the cellular network. The modem can also read or modify certain parameters of the meter remotely via WM-E Term® configuration software.

MAIN FEATURES

- Cellular module options: LTE Cat.1 / 3G/2G, LTE Cat.M / Cat.NB / 2G
- External modem in a compact design (separated from the meter)
- It can be fastened securely by its DIN-rail adapter
- AC power supply from the meter's mains connector (by 57/100V AC phase voltage or 230/400V AC line voltage)
- RS232 meter connection (RJ45)
- Compatibility with Saphir[®] meters (Enedis[®] and Altys[®] electricity meters)
- IEC 62056-21 protocol, transparent mode, CSData call
- Optional "push" mode (FTP, IEC or SMS triggered)
- Supercapacitor option (for power outage), LastGASP notification
- \bullet Remote & safe firmware updates, WM-E Term $^{\rm e}$ configuration tool
- Device Manager[®] software (order option)

APPLICATION

- UTILITY COMPANIES
- SMART METERING
- INDUSTRIALMEASUREMENT



WM-EIS SAPHIR



- External modem, compact design (separated from meter)
- It can be fastened securely by its DIN-rail adapter
- RS232 interface (1m long RJ45 cable for meter connection or modem configuration)
- AC power by meter via pigtail connector (57.7 / 100V phase voltage or 230/400V line voltage)
- External SMA antenna interface (50 Ohm)

COMPATIBILITY

Saphir[®] meters (Enedis[®], Altys[®] electricity meters)

OPERATION

- IEC 62056-21 protocol, transparent data transmission
- "Push" mode (FTP or IEC sending, SMS triggered)
- CSData call, TLS encryption (optional)
- Immediate alarm SMS notification (LastGASP power loss)

ACCESSORIES (ORDER OPTIONS)

8(900) /

3 status LEDs

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- External SMA antenna (50 Ohm)
- 35mm DIN-rail adapter (by anodized aluminum with spring steel wire)
- Supercapacitor (for LastGASP SMS notification in case of power outage, status changes)
- WM-E Term[®] software (mass FW updates, actualization of settings)
- You can manage the device by Device Manager® software

diate alarm SMS notification (in case of po WM-E Term[®] tool (local/mass parameter configuration, local/mass fir

outage < =1 hour · After 1 hour the RTC will be supplied from the mete

Supercapacitor (for Last GASP SMS notification from power outages) - order

40'C to +70'C at 95% rel.humidity -40'C to +70'C at 95% rel.humidity al modem, compact design (separated from m

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WM Systems LLC Our website: www.wmsystems.hu

WM-EIS SAPHIR®

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equency (MHz)

ed (DL/UL)

Antenna connector

SIM card slot

leter type onnectors

Configuration

Supercapacitor

Design

RTC Backup Battery*

8 Villa str., Budapest, H-1222 HUNGARY Phone: +36 (1) 310 7075 Sales inquiry: intersales@wmsystems.hu

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ter (appdized aluminum with spring steel wire 1427DIN standard) for mounting