Product Sheet
Versie 1.0
DNG 1.0 - Transparent Modem communication module

DNG 1.0 - Transparent Modem

DIN-sized transparent modem to connect any remote RS485 device using LTE Cat - 1 or GPRS.

Product overview

The DGM 1.0 transparent modem module is a DIN-sized communication module which enables remote RS485 device connectivity using LTE Cat-1 or GPRS.

The module is mains-powered and can be mounted in a standard DIN cabinet. A slide-in slot on the front for the SIM card enables easy installation. The device has a standard SMA connector to mount an external antenna. Status indicators on the front panel provide users with visual indication of the module's operation. A secure optical maintenance interface on the DGM 1.0 provides direct access to the module.

The unit supports the industry-standard protocol DLMS-COSEM for configuration purposes. This protocol enables also secure firmware update functionality.

A configuration and maintenance tool allow authorized personnel to conveniently, quickly and securely manage the devices on the network. The tool is a remote (P3) and local (P0) management solution that offers configuration, provisioning and troubleshooting.

The DGM 1.0 – Transparent modem is ideal for companies looking for a cost-effective, easy-to-use and easy-to-manage remote RS485 device connectivity solution.

Features

- LTE Cat-1 or GPRS WAN connectivity
- External antenna connector
- Optical port for local configuration
- DLMS for local or remote configuration
- Front panel SIM slide-in slot (2FF)
- RS485 interface with configurable baudrate

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Technology

Physical Characteristics

- Housing: DIN 43880 / 2 units
- Weight: 106 gr
- Dimensions: 90 x 36 x 65 mm

Local interfaces

- RS485 (2-Wire + GND)up to 115200 Baud
- EN62056-21 optical IR interface for local configuration

WAN interface

- LTE Cat-1 (Bands: B1, B3, B7, B8, B20)
- GPRS (900/1800 MHz)

Sim card connector

- Mini Sim (2FF) 25x15mm

Antenna connector

- SMA Female on housing

LED indicators

- Power indication
- WAN connection

Environmental Limits

- Operating Temperature: -20/+70°C
- Storage Temperature: -40/+70°C

Power requirements

- 230Vac/ 50 or 60Hz

Standards and Certifications

– Safety:	IEC 60950-1	
– EMC:	EN 55016-2-3	EN 55016-2-1
	EN 61000-3-2	EN 61000-3-3
	EN 61000-4-2	EN 61000-4-3
	EN 61000-4-4	EN 61000-4-5
	EN 61000-4-6	EN 61000-4-11

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