

Benefits:

- Reliable meter modem for transparent communication via mobile networks
- GPRS support for:
 - dynamic IP addresses (IP telemetry)
 - fixed IP
- Flexible meter integration
- Short reading intervals
- Protection against unauthorized access
- Diverse applications possible thanks to integrated auxiliary voltage supply (e.g. for quantity transformers)
- Easy device configuration using the RS232 interface (local) or via telephone call (remote)
- International application thanks to quad-band GSM

Key Features:

- Transparent communication via GSM and GPRS connections
- Meter interfaces: CL1, RS232, RS485
- Supports the IP-T protocol (E-DIN 43863-4)
- Supports fixed IP
- Integrated wide-range power supply for 100 – 230 VAC
- Auxiliary voltage supply
- Display for operating mode and GSM field strength via LED
- Sealable enclosure
- Call authorization with password protection
- Local parameterization via the RS232 interface or by remote by telephone
- Local firmware update via the RS232 interface



The ZDUE-GPRS-PLUS-VI from Dr. Neuhaus Telekommunikation enables location-independent remote data readouts for energy, water or gas meters via the GPRS network.

This technology makes it inexpensive to read out meters at very short intervals, whereby the GPRS connection is set up in the same way as the previous AT connection via the GSM network. The data collected at short, regular intervals can be used to calculate trends and thus optimize load or network management.

Thanks to the integrated auxiliary voltage supply, the ZDUE-GPRS-PLUS-VI is also able to provide such battery-operated devices as quantity transformers with power.

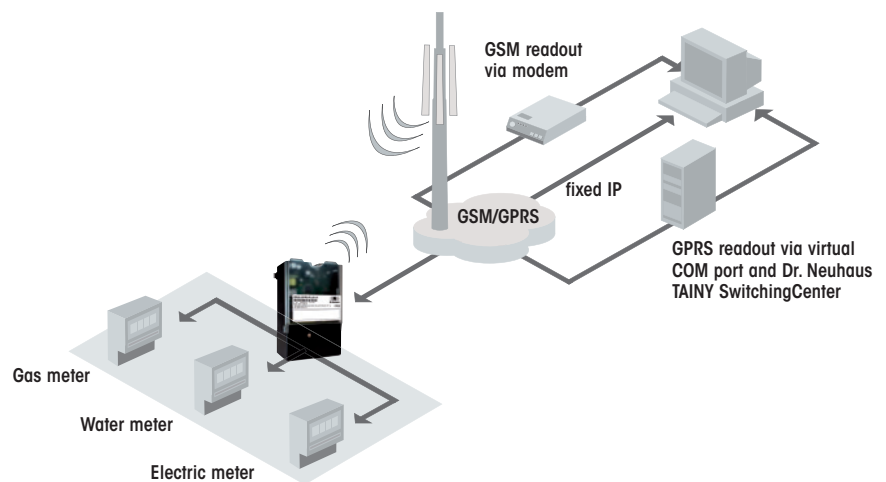
Equipped with a compact enclosure according to DIN 43857-5, the ZDUE-GPRS-PLUS-VI is designed to be mounted on a meter board or on the meter terminal cover.



System Components

- ZDUE-GPRS-PLUS-VI
- Antenna
- SIM card (for GPRS operation using dynamic or fixed IP addresses)
- Communication software: TAINY SwitchingCenter
- Software modem control center: TAINY ComPortClient

Topology



Technical Data

INTERFACE

Meter interfaces	CL1 – Interface as screw-type terminal acc. to DIN EN 62056-21: MODE A, C; Speed: up to 19,200 baud, half-duplex RS232 – Interface as RJ6/6: Signals: Rx, Tx, GND, DCD; Speed: up to 38,400 baud, full-duplex RS485 – 2-wire Interface as screw-type terminal: Signals: RT+, RT-; max. 32 transceivers; Speed: up to 19,200 baud, half-duplex Data format 7E1 (meter mode), 8N1 or 8E1; supports baud-rate switch acc. to DIN EN 62056-21 Mode C
Configuration	Basic configuration and expanded configuration acc. to DIN EN 62056-21 Mode C: locally via RS232 meter interface, remote by telephone call
Power supply	Input voltage for device: Un 100–230 VAC +/- 10% (integrated wide-range power supply), Fn 50 Hz; Un 60–100 VDC +/- 10%; 40 mA/120 mA
Auxiliary power	9 VDC / 100 mA

RADIO

Connection	GSM data (CSD): Non-transparent; Modem type V.32, RLP acc. to GSM Rec. 4.22, ISDN Type V.110; GPRS data: Class 10; up to 2 uplinks / up to 4 downlinks, max. of 5 links; coding process: CS-1, CS-2, CS-3, CS-4
Transmitting Power	Quad-band (when using a quad-band enabled antenna); GSM 900 MHz: max. 2 watts, DCS 1800 MHz: max. 1 watt, GSM 850 MHz: 2 watts, PCS 1900 MHz: max. 1 watt
Antenna Port	Nominal impedance: 50 ohms; jack: SMA

CERTIFICATION

Environmental Conditions	Operation from -20 °C to +55 °C; +55 °C to +65 °C (derating); -25 °C to +85 °C (storage); Humidity 0-95 %, non-condensing
Approvals	CE conformity: – Telecommunications devices (1999/5/EC): EN301419-1, EN301511, Module with GCF certification – Electromagnetic safety (1995/5/EG): EN 55022 Class B, EN 55024: EN 61000-6-2, EN 61000-4-[2/3/4/5/6/11], EN 61036 – Electrical safety (73/23/EWG): EN 60950-1 2006

MECHANICS

Mechanics	Enclosure: Standard enclosure for terminal cover mounting, three-point mounting acc. to DIN 43857-5, IP51, combustibility acc. to UL94-V0, lid for terminal box can be sealed; Dimensions: approx. 105 x 70 x 180 mm (L x W x H); Weight: approx. 350 g
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MISCELLANEOUS

Accessories	Various antennas, software
Scope of Delivery	Device; installation instructions
Order Number	ZDUE-GPRS-PLUS-VI, Part-No.: 820208 (with CL1 interface), No. 820215 (without CL1 interface)

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