

# TAINY GMOD-S1/S2

## GPRS switched and leased line modem for industrial applications

### Benefits:

- Low-cost billing based on data volume (GPRS)
- Switched line operation: Eliminates time-consuming dial-ups
- Leased line operation: Enable use of real time data
- "Always online"
- High flexibility regarding installation locations
- No fixed IP address required
- Easy installation and mounting
- Easy configuration
- High connection availability and stability
- Display of GPRS network, signal strength and connection via LEDs

### Key Features:

- GPRS modem for serial data
- Bidirectional GPRS communication
- Different operating modes: AT switched-line or leased line mode via GPRS
- Serial interface to the application
- Intelligent connection monitoring
- Quad Band GSM
- Optimized for top hat rail mounting
- Status display via LED
- Standard interfaces
- Available for GSM data calls during GPRS connection
- Large input voltage range (12...30 V)
- Configuration – local and remote



The TAINY GMOD-S1/S2 replaces a traditional AT-controlled switched line or leased line modem, allowing applications to communicate with a control center or among one another bi-directionally via GPRS while keeping costs to a minimum.

A serial RS232 interface makes it possible to easily integrate this GPRS modem into existing technical infrastructures. Regardless of the operating system used by the application, this GPRS modem uses TCP/IP networks for communication.

Incoming as well as outgoing GSM/CSD data calls are supported.

The TAINY GMOD-S2 is able to answer incoming GSM/CSD data calls onto the additional RS232 Interface.

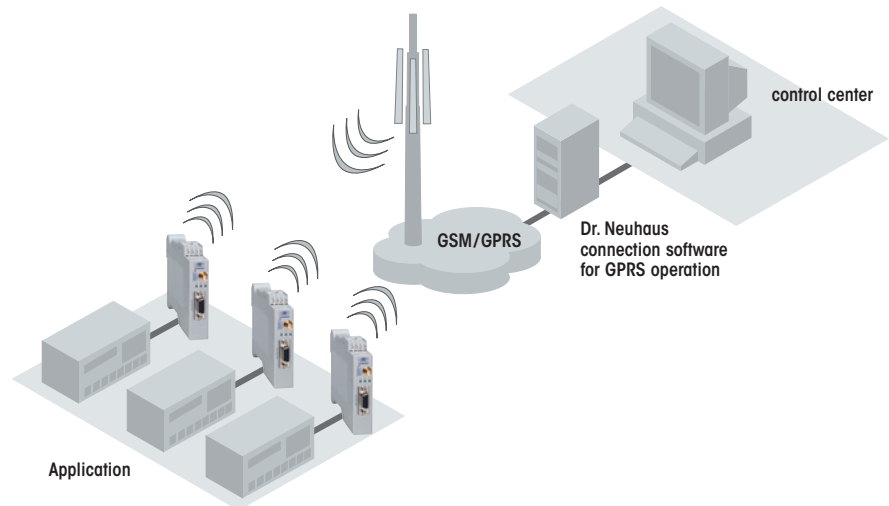


**Dr. Neuhaus**

### System Components

- TAINY GMOD-S1/S2
- Antenna
- Power supply
- SIM card with data option
- Dr. Neuhaus connection software for GPRS operation

### Topology



### Technical Data

#### INTERFACE

|                                    |  |
|------------------------------------|--|
| <b>Application Interface COM</b>   | RS-232 (ITU V.24/V.28) jack: DSUB-9; speed: 300 bps up to 57,600 bps; connection control: AT commands, DTR control or Always Online; type of connection: switched line (CS), leased line (LL) and service mode |
| <b>Application Interface COM2*</b> | "COM2" RS-232 (ITU V.24/V.28), jack: RJ45; speed: 300 bps up to 57,600 bps; control: AT commands; function: accepts GSM data calls (CSD 9,600 bps, MTC) *only for the TAINY GMOD-S2                            |
| <b>Power Supply</b>                | Device input voltage: 12 – 30 VDC (24 VDC nominal); I typ. 500mA@12V (peak 1.3A), I typ. 200mA@24V   |

#### RADIO

|                           |  |
|---------------------------|--|
| <b>Connection</b>         | GPRS: Class 10, up to 2 uplinks / up to 4 downlinks, max. 5 slots; coding processes: CS-1, CS-2, CS-3, CS-4; GSM data: CSD 9,600 bps |
| <b>Transmitting Power</b> | Quad band; GSM 900 MHz: max. 2 watts, DCS 1800 MHz: max. 1 watt, GSM 850 MHz: max. 2 watts, PCS 1900 MHz: max. 1 watt;               |
| <b>Antenna Port</b>       | Nominal impedance: 50 ohms; jack: SMA  |

#### APPROVALS

|                                 |   |
|---------------------------------|---|
| <b>Environmental Conditions</b> | Operation -20 °C to +65 °C (>55 °C derating); humidity 0-95 %, non-condensing                               |
| <b>Approvals</b>                | CE; R&TTE (GSM); GSM/GPRS module with GCF certification; EN 55024; EN 55022 Class A; EN 61000-6-2; EN 60950 |

#### MECHANIK

|                  |  |
|------------------|--|
| <b>Mechanics</b> | Top hat rail mounting; housing: plastic; protection class: IP40; dimensions: approx. 114.5 x 22.5 x 99 mm (D x W x H); weight: approx. 150 g |
|------------------|--|

#### MISCELLANEOUS

|                          |   |
|--------------------------|---|
| <b>Accessories</b>       | Various antennas, power supply, adapter, serial cable, TAINY SwitchingCenter, TAINY ModemServer |
| <b>Scope of Delivery</b> | Device; CD with user manual, modem driver for service operation and configuration software      |
| <b>Order Number</b>      | TAINY GMOD-S1, part no.: 314417; TAINY GMOD-S2, part no.: 314400                                |

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