

# TAINY GMOD-T1

## M2M communication via GSM or GPRS for industrial applications.

### Benefits:

- Easy installation and mounting
- Quad band GSM enables worldwide use
- Can be switched on by external control signal
- High flexibility regarding installation locations
- Standard connections
- Compact plastic enclosure in standard design
- Optimised for top hat rail mounting in control cabinets

### Key Features:

- Terminal adapter for communication services for data (GPRS/CSD), text messaging and fax
- Control via AT command set
- Integrated SIM card holder
- Large temperature range (-20 °C..+70 °C)
- Large input voltage range (12...30 VDC)
- Protection type/class: IP40



The TAINY GMOD-T1 from Dr. Neuhaus Telekommunikation is a “plug-and-play” modem for wireless data transmission via GSM or GPRS networks in industrial environments. The flexible terminal adapter supports communication via data, text messaging and fax.

The TAINY GMOD-T1 is connected by a serial cable. As such, it is available to the application or the PC as a wireless modem.

Proof of the device’s flexibility includes its standardized enclosure for top hat rail mounting, its large input voltage range (12...30 VDC) and the AT-command controlling option.

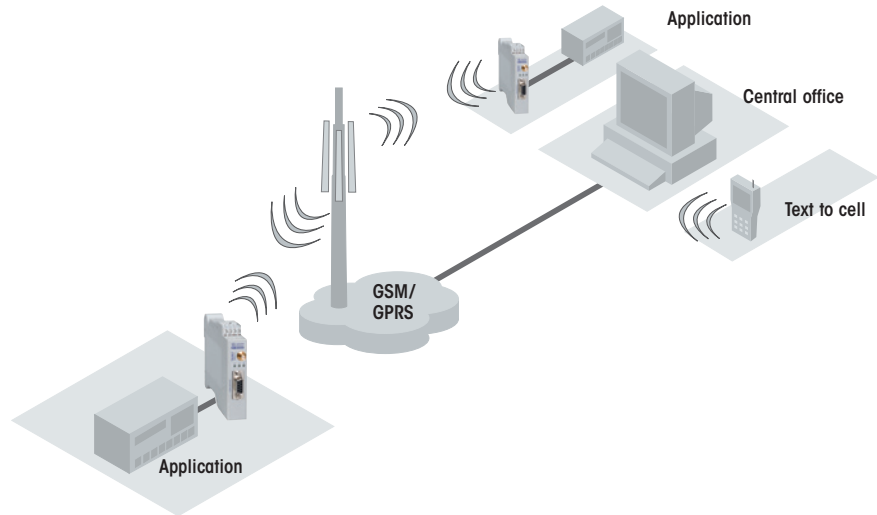


**Dr. Neuhaus**

### System Components

- Device: TAINY GMOD-T1
- Antenna
- Power supply
- SIM card

### Topology



### Technical Data

#### INTERFACE

<b>Application Interface</b>	"COM" RS-232 (ITU V.24/V.28); speed: autobauding 300 bps up to 57,600 bps; standard AT commands
<b>Power Supply</b>	Device input voltage: 12-30 VDC (24 VDC nominal); I max. 1.2 A @ 12 V, I typ. 430 mA @ 12 V, I typ. 220 mA @ 24 V; switching current: I <sub>switch</sub> max. < 1 mA

#### RADIO

<b>Connection</b>	GPRS: multislots class 10: up to 2 uplinks / up to 4 downlinks (max. 5 slots); coding process: CS-1, CS-2, CS-3, CS-4; GSM data (CSD): max. 9600 bps; SMS: MO/MT/CB
<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 +70 °C (>55°C derating); humidity 0 – 95 %, non condensing
<b>Approvals</b>	CE; R&TTE (GSM); GSM/GPRS module with GCF certification; EMV/ESD: EN 55024, EN 55022 Class A, EN 61000-6-2; electrical safety: EN 60950

#### MECHANIC

<b>Mechanics</b>	Top hat rail mounting; enclosure: plastic; IP40 protection class; Dimensions: approx. 114.5 x 22.5 x 99 mm (L x W x H); weight: approx. 150 g
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#### MISCELLANEOUS

<b>Accessories</b>	Various antennas, power supply, adapter
<b>Scope of Delivery</b>	Device, CD with installation directions, AT command set and modem driver
<b>Order Number</b>	TAINY GMOD-T1, part no.: 315902

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