

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
- Support of fixed and dynamic IP addresses (according to IP-Telemetry DIN 43863-4)
- Different operating modes: AT switched-line or leased line mode via GPRS
- Serial interface to the application
 - RS232
 - RS485 (on request)
- Intelligent connection monitoring
- Quad Band GSM
- Optimized for top hat rail mounting
- Status display via LED
- Large input voltage range (10...30 V)
- Configuration – local and remote



The TAINY GMOD-S3 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.

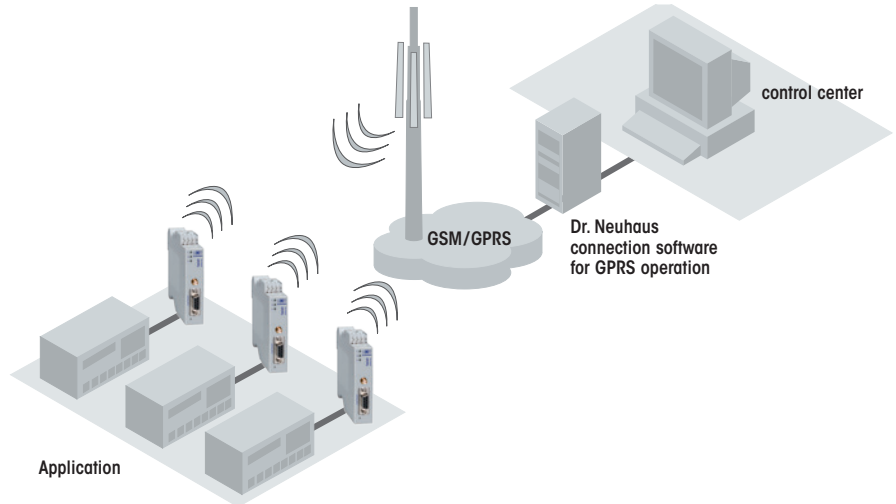
Incoming as well as outgoing GSM/CSD data calls are supported.



System Components

- TAINY GMOD-S3
- Antenna
- Power supply
- SIM card with data option
- Dr. Neuhaus connection software for GPRS operation

Topology



Technical Data

INTERFACE

Application Interface COM	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 dynamic IP addresses (IP-Telemetry): switched line (CS) or dedicated line (LL); type of connection fixed IP addresses: Server (RAW) or Client (RAW)
Power Supply	Device input voltage: 10 – 30 VDC (24 VDC nominal); P max. 3,25 W, P idle = 0,63W@30V / 0,44W@10V; I Peak 1A@10V

RADIO

Connection	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
Transmitting Power	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
Antenna Port	Nominal impedance: 50 ohms; jack: SMA

APPROVALS

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

MECHANIC

Mechanics	Top hat rail mounting; enclosure: plastic; protection class: IP30; SIM card accessible from outside; dimensions: approx. 92 x 22.5 x 99 mm (D x W x H); weight: approx. 110g
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MISCELLANEOUS

Accessories	Various antennas, power supply, adapter, serial cable, TAINY SwitchingCenter, TAINY ModemServer
Scope of Delivery	Device
Order Number	TAINY GMOD-S3, part no.: 319801

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