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Approved Technology for the GSM-Rail System

Technical Data

• Dimensions 74 x 65 x 33 mm (L x W x H)

Weight 130 gSupply voltage range 8...30 V

• Power consumption: Standby 2 mA

Idle mode 40 mA

Speech mode 300 mA (average) GPRS (class 10) 500 mA (average)

Peak 4 A

• Temperature Range: Normal operation: -20°C ... +55°C

Restricted operation: -25°C to +70°C

Storage: -40°C to +70°C



Specifications for Voice

- Triple-rate codec for HR, FR, EFR
- · Adaptive multi rate (AMR)
- Hands-free operation
- · Noise reduction and echo cancellation

SMS via GSM and GPRS

- Point-to-point MO and MT
- SMS cell broadcast
- · Text and PDU mode

System / Standards

- Ouad-band GSM-R / EGSM 900 / GSM 1800 / GSM 1900
- GSM Phase 2 / Phase 2+
- GPRS multi-slot class 10
- Mobile station class B
- Output power: Class 4 (2 W) for GSM-R / EGSM900
 - Class 1 (1 W) for GSM1800 / GSM 1900
- · Control with AT commands via serial interface
- SIM Application Toolkit

Data Services

- GPRS Class 10: max. 86 kbps (downlink)
- PBCCH support
- Coding scheme CS 1-4
- CSD data transmission: up to 14.4 kbps

USSD

Non transparent mode

V.110

- PPP stack for GPRS data transfer
- Fax: Group 3, Class 2
- TCP/IP stack access via AT command

Protocols: TCP, UDP, HTTP, FTP, SMTP, POP3

Target Applications

The TRM-3T can be easily and ad hoc applied for GSM-R data and voice terminal or modem solutions within PC, notebook or other process computing environment.

Interfaces

- RS232 Interface (9-pin D-Sub)
- · AT commands via serial interface
- Voltage supply (western with 6 pins modular plugs)
- Antenna connection (FME)
- Hand set connection (4-pin western modular plug)
- Indication LED
- · Miniature SIM card holder

