



triorail

GSM-R technology for railways

GSM-R data only modem

TRM-6T



GSM-R data transmission
E-GPRS GPRS CSD

TRM-6T

The data only modem with EDGE, GPRS and CSD capabilities provides excellent receiver characteristics.



Technical data

Dimensions

L: 100 mm + 2x10 mm mounting straps

W: 59.9 mm

H: 30.9 mm

Weight

170 g

Supply voltage

9 V_{DC} to 32 V_{DC}

Current consumption (12V_{DC}; 20°C)

Minimum: 2 mA

Maximum: 360 mA

Inrush: 8 A (I²t = 0.01)

Temperature range

-25°C to +70°C

Interfaces

RS232 serial interface	9-pin D-Sub
USB interface	Type B
Power supply socket	6-pin RJ12 6P6C
Status indicators	4-LEDs
Card reader	Mini-SIM (1.8/3.0V)
Antenna connector	Type SMA 50 Ω

Applications

The modem TRM-6T is suitable for data only transmission and can be applied easily and ad hoc for GSM-R and EGSM-R data solutions within PC, notebook or other computing environment.

Part no.

TRM-6T 1507

System features

Frequency bands

GSM-R / EGSM-R / EGSM900 / GSM1800

RF output power

Class 4/2W	CSD/GPRS	900MHz bands
Class E2/0.5W	E-GPRS	900MHz bands
Class 1/1W	CSD/GPRS	1800MHz bands
Class E2/0.4W	E-GPRS	1800MHz bands

Professional Mobile Standard

ETSI TS 102 933 V 2.1.1

ER-GSM Frequencies

ETSI TS 102 392 V 1.1.1

EIRENE

FRS 8.0.0 / SRS 16.0.0 (Data only)

GSM Phase 2 and 2+

Mobile station class B

Control by AT commands via RS232 or USB interface

Data services

E-GPRS class 10

Modulation coding scheme MCS 1 – MCS 9

GPRS class 10

Coding scheme CS 1 – CS 4

CSD (transparent and non transparent mode)

Fax Group 3, class 2

PPP stack

GPRS/E-GPRS data transfer

Authentication

PAP, CHAP

SMS via GSM, GSM-R and GPRS/E-GPRS

Text and PDU mode