



triorail

GSM-R technology for railways

GSM-R / E-GPRS module

TRC-6RM



Transceiver made for ETCS / EDOR applications

TRC-6RM

The module for rack-mounted solutions provides E-GPRS (EDGE) capabilities and excellent receiver characteristics.



Technical data

Dimensions

L: 169.93 mm (w/o front panel and connectors)
W: 25.00 mm (fits 5HP)
H: 128.40 mm (fits 3U)

Weight

440 g

Supply voltage

11 V_{DC} to 32 V_{DC}

Current consumption (12V_{DC}; 70°C)

Power down 2 mA
Idle 250 mA
CSD data 780 mA
GPRS (2TX/3RX) 1300 mA
E-GPRS (2TX/3RX) 820 mA
Inrush 8 A

Temperature range

-40°C to +85°C

Interfaces

96-pin backplane connector (IEC 60603-2)
USB interface Type Mini B
Status indicators 6-LEDs
Card reader Mini-SIM (1.8/3.0V)
Antenna connector A TNC 50 Ω (RX/TX)
Antenna connector B TNC 50 Ω (RX)

Applications

The module TRC-6RM is designed for data only applications like EDOR and fits into 10", 19" or other industrial sizes.

Part no.

TRC-6RM 1441

System features

Frequency bands

GSM-R / EGSM-R / EGSM900 / GSM1800

RF output power

Class 2/8W	CSD/GPRS	900MHz bands
Class E1/2W	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 serial 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 1/2

PPP stack
GPRS/E-GPRS data transfer

Authentication
PAP, CHAP

SMS via GSM, GSM-R and GPRS/E-GPRS
Text and PDU mode