



GSM-R module 8W



TRC-5RMe (ext)*

**GSM-R new defined to cope with
challenging radio interferer**

***Optional: Extended GSM-R**

GSM-R technology for railways

TRC-5RMe (ext)



The module for rack-mounted solutions provides a slim design and excellent receiver characteristics.

Technical data

Dimensions	128.5 mm	[Height, fits 3U]
	170.5 mm	[Depth]
	25.0 mm	[Width, fits 5HP]
Weight	500 g	
Supply voltage	11 to 32 V _{DC}	
Current consumption @12V _{DC}	@20°C	@70°C
Idle mode	65 mA	280 mA
Speech mode	640 mA	920 mA
GPRS (cl. 10)	870 mA	1105 mA
In-rush current	up to 6 A	
Temperature range	-40°C to +85°C	

Interfaces

96-pin DIN 41612 backplane connector	
USB Mini B connector	[service and maintenance only]
Antenna connector A	TNC 50Ω [RX/TX]
Antenna connector B	TNC 50Ω [RX]
Display	6 status LED
Card reader	Mini-SIM

ASCI features

VGCS	[Voice Group Call Service]
VBS	[Voice Broadcast Service]
UUS1	[User-to-User Signaling type 1]
eMLPP	[enhanced Multi-Level Precedence and Preemption]

EIRENE features

FN supported	[Functional Number]
PFN supported	[Presentation Functional Number]
REC supported	[Railway Emergency Call]

Applications

The modules TRC-5RMe and TRM-5RMe ext are designed for CAB-Radio and Data applications and fit into 10", 19" or other industrial sizes.

System / Standards

Frequency bands	GSM-R/EGSM900/GSM1800 [TRC-5RMe]
	EGSM-R/EGSM900/GSM1800 [TRC-5RMe ext]
RF output power	Class 2 [8 W] for GSM-R/EGSM-R/EGSM900
	Class 1 [1 W] for GSM1800
Professional Mobile Standard	ETSI TS 102 933 V 2.1.1
ER-GSM Frequencies	ETSI TS 102 932 V 1.1.1 [TRM-5RMe ext]
GSM Phase 2 and 2+	
Mobile station class B	
Audio	Voice triple-rate codec for HR, FR and EFR
	AMR for non ASCII applications supported
AT commands via serial or USB interface	

Data services

GPRS class 10
PBCCH supported
Coding scheme CS 1-4
CSD [Transparent and non transparent mode]
Fax group 3, class 2
PPP stack for GPRS data transfer
TCP/IP stack access via AT commands
Authentication: PAP, CHAP
Protocols: TCP, UDP, HTTP, FTP, SMTP, POP3
SMS via GSM, (E)GSM-R and GPRS
[MO, MT, CB, text and PDU mode]

Part no.

TRC-5RMe	1352
TRC-5RMe ext	1354