



GSM-R module 8W



TRC-5
TRC-5 ext

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

Optional: Extended GSM-R

GSM-R technology for railways

TRC-5 / TRC-5 ext

The compact modules with which faster project goals can be achieved, provide also excellent receiver characteristics.



Technical data

Dimensions	125 x 70 x 30 mm [LxWxH]		
Weight	500 g		
Supply voltage	14 – 50 Vdc		
Current consumption	@24Vdc	@20°C	@70°C
Idle mode		37 mA	160 mA
Speech mode		180 mA	310 mA
GPRS (cl. 10)		312 mA	440 mA
Standby current	@24Vdc	22 mA	
In-rush current	@70°C	4 A	
Temperature range	-40°C to +85°C		

Interfaces

RS232 serial interface	9-pin D-sub
USB mini B	Service and maintenance only
Power supply	RIA PLUGCON type 382
Antenna connector	Type SMA
Audio	10-pin Western RJ50
Display	3 status LEDs
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 compact modules TRC-5 and TRM-5 ext are designed for CAB-Radio and Data-Only-Radio applications and fit portable and fixed installations.

System / Standards

Frequency bands	GSM-R/EGSM900/GSM1800	[TRC-5]
	EGSM-R/EGSM900/GSM1800	[TRC-5 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 1.2.1	
ER-GSM Frequencies	ETSI TS 102 932 V 1.1.1	[TRM-5 ext only]
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 data transmission with up to 14.4 kbps
[Transparent and non transparent mode]
Fax group 3, class 2
PPP stack for GPRS data transfer
Authentication: PAP, CHAP
Protocols: TCP, UDP, HTTP, FTP, SMTP, POP3
SMS via GSM, GSM-R and GPRS
[MO, MT, CB, text and PDU mode]

Part no.

TRC-5	1337
TRC-5 ext	1339