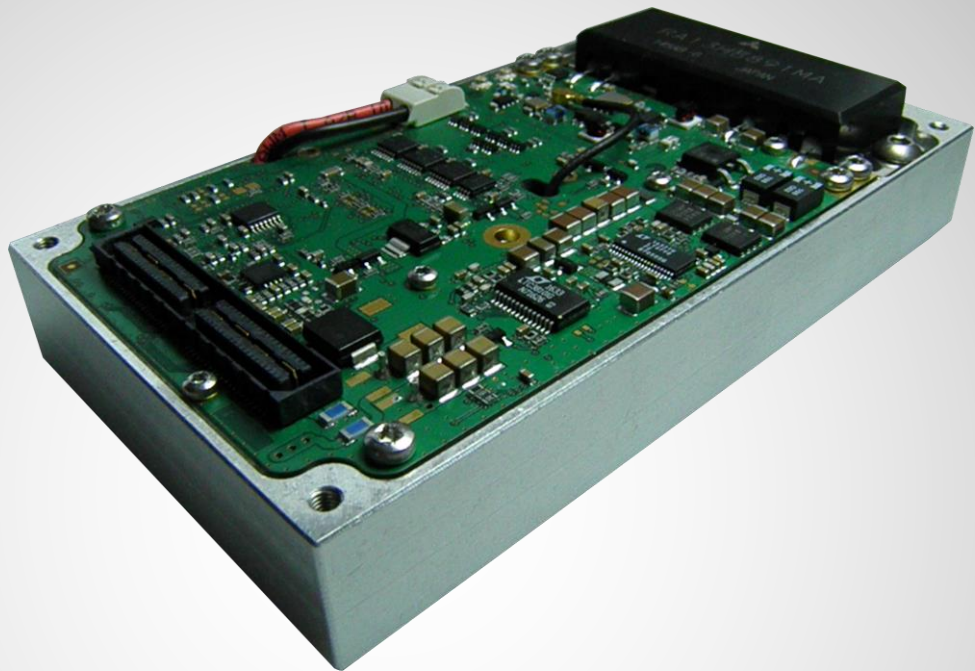


GSM-R module 8W



TRC-5AP2e
TRC-5AP2e ext

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

GSM-R technology for railways

TRC-5AP2e / TRC-5AP2e ext

The modules for tailored embedded solutions provide excellent receiver characteristics.



Technical data

Dimensions	125 x 70 x 25 mm [LxWxH]		
Weight	350 g		
Supply voltage	11 – 32 V _{DC}		
Current consumption	@24V _{DC}	@20°C	@70°C
	Idle mode	70 mA	200 mA
	Speech mode	290 mA	410 mA
	GPRS (cl. 10)	480 mA	590 mA
In-rush current	6 A		
Temperature range	-40°C to +85°C		

Interfaces

80-pin board-to-board connector

- Power supply
- 2 serial interfaces
- USB
- 2 audio interfaces
- LED interface

Antenna connector A	U.FL 50Ω	[RX/TX]
Antenna connector B	U.FL 50Ω	[RX]
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-5AP2e and TRC-5AP2e ext are designed for CAB-Radio and Data-Only-Radio applications and fit perfectly into many embedded railway solutions.

System / Standards

Frequency bands	GSM-R/EGSM900/GSM1800	[TRC-5AP2e]
	EGSM-R/EGSM900/GSM1800	[TRC-5AP2e 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	[TRC-5AP2e 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-5AP2e	1346
TRC-5AP2e ext	1347