GSM-R module 8W

TRC-5RMe (ext)* H

GSM-R radio module for robust voice and data communication

***Optional: Extended GSM-R supported**

GSM-R technology for railways

Datasheet

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TRC-5RMe (ext) H

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	440 g	
Supply voltage	11 to 32 V_{DC}	

Current consumption @12V_{DC}

	@20°C	@70°C
Idle mode	69 mA	250 mA
Speech mode	725 mA	945 mA
GPRS (cl. 10)	1200 mA	1575 mA

In-rush current	6 A
Temperature range	-40°C to +85°C

Interfaces

Backplane connector	96-pin, IEC 60603-2	
USB Mini B connector	[Service interface only]	
Antenna connector A	TNC 50 Ω	[RX/TX]
Antenna connector B	TNC 50 Ω	[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]

Part no.

TRC-5RMe H	1378
TRC-5RMe ext H	1374

System features

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 [TRC-5RMe ext H only]
- ETSI TS 102 932 V 1.1.1

GSM Phase 2 and 2+

Mobile station class B

Audio
- Voice triple-rate codec for HR, FR, EFR and AMR for non-ASCI applications

Module control AT commands

Data services

GPRS class 10

PBCCH supported

Coding scheme CS 1-4

CSD data transmission
- [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]

Applications

The module TRC-5RMe (ext) H is designed for CAB-Radio and Data applications and fit into 10'', 19'' or other industrial sizes.

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The manufacturer reserves the right to change the product specification without notice.

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