



China GSM-R module 8W



TRC-3RMcn

8 Watt GSM-R technology with ultra-flat design for CAB radio and CTCS-3 systems

GSM-R technology for railways

TRC-3RMcn

The module provides a slim design for GSM-R networks for all kind of rack-mounted CAB or CTCS-3 applications in China.



Technical data

| | | |
|---------------------|----------------|-------------------|
| Dimensions | 128.5 mm | [Height, fits 3U] |
| | 170.5 mm | [Depth] |
| | 25.0 mm | [Width, fits 5HP] |
| Weight | 500 g | |
| Supply voltage | 12 Vdc | |
| Current consumption | @20°C | @70°C |
| Idle mode | 74 mA | 315 mA |
| Speech mode | 380 mA | 630 mA |
| GPRS (cl. 10) | 660 mA | 930 mA |
| Standby current | 62 mA | |
| In-rush current | @70°C | 4 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 module TRC-3RMcn is designed for CAB-Radio and Data-Only-Radio applications and fits 10", 19" racks or other industrial sizes.

System / Standards

| | |
|---|--|
| Frequency bands | China GSM-R/EGSM900/GSM1800 |
| RF output power | Class 2 [8 W] for China GSM-R/EGSM900 Class 1 [1 W] for GSM1800 |
| 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 8 | @8 Watt |
| GPRS class 10 | @2 Watt |
| 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 | |
| Protocols: PAP, CHAP | |
| SMS via GSM, GSM-R and GPRS | [MO, MT, CB, text and PDU mode] |

Part no.

| | |
|-----------|------|
| TRC-3RMcn | 1288 |
|-----------|------|