

TRC-3 AP2

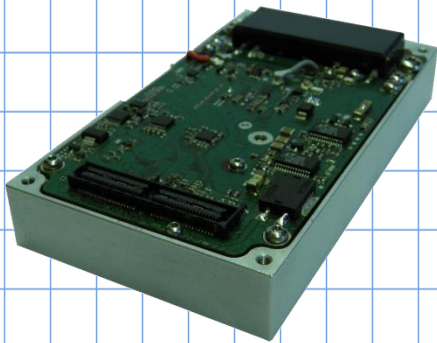
**8 Watt GSM-Rail technology for CAB radio
and ETCS L2 / CTCS-3 embedded systems**

TRC-3 AP2

The TRC-3 AP2 is a high performance 8 Watt module for GSM-R networks. This innovative module with slim form factor is the right choice for all kind of embedded CAB radio, ETCS L2 and CTCS-3 railway applications.

Technical Data

- Dimensions 125 x 70 x 25 mm (L x W x H)
- Weight 350g
- Supply voltage 14-50 Vdc
- Power input average 20°C / 70°C
37mA / 160mA idle mode
180mA / 310mA voice call
180mA / 310mA GPRS 4RX/1TX
312mA / 440mA GPRS 3RX/2TX
- Peak power input 4A
- Temperature range -40°C to +85°C



Data Services

- GPRS class 8 (8 Watt), class 10 (2 Watt)
- PBCCH (Packet Broadcast Control Channel)
- Coding scheme CS 1-4
- CSD data transmission up to 14.4 kbps; (Non transparent and transparent mode)
- PPP stack for GPRS data transfer
- Fax group 3, class 2
- TCP/IP stack access via AT commands (Protocols: TCP, UDP, HTTP, FTP, SMTP, POP3)

Interfaces

- 80-pin QSE connector / Samtec™ QSE-040-01-L-D-A
- U.FL 'RX' Antenna connector (split mode: RX only; merge mode: off)
- U.FL 'RX/TX' Antenna connector (split mode: TX only; merge mode: RX/TX combined)
- Miniature 3.0V/1.8V SIM card reader

System / Standards

- Quad-band GSM-R / EGSM 900 / GSM 1800 / GSM 1900
- GSM Phase 2 / Phase 2+
- GPRS multi-slot class 8 (8 Watt); class 10 (2 Watt)
- Mobile station class B
- Output power
900 MHz 8 watt
1800 MHz 1 watt
1900 MHz 1 watt
- Control with AT commands via UART or USB interface (virtual COM-Port)

Specifications for Voice

- Trippel-rate codec for HR, FR, EFR
- Adaptive multi-rate (AMR) for non ASCII applications supported

ASCII Features

- VGCS (Voice Group Call Service)
- VBS (Voice Broadcast Service)
- UUS1 (User-to-User Signalling type 1)
- eMLPP (enhanced Multi-Level Precedence and Pre-emption)

EIRENE Features

- FN supported (Functional Number)
- PFN supported (Presentation Functional Number)
- REC supported (Railway Emergency Call)

Target Applications

The 8 Watt TRC-3 AP2 module is designed for CAB radio and ETCS L2 / CTCS-3 train control systems and fits as embedded solution perfect into your application.



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