



GSM-R test monitor



TM-S75a GPS

Deploy, approve and monitor
GSM-R / GSM networks with
comprehensive test monitor

GSM-R technology for railways

TM-S75a GPS

The TM-S75a GPS is the right choice for on the spot GSM-R monitoring of critical network parameters. Measured data can be stored and post-processed by the PC application TrioTrace2.



Technical data

Dimensions	103 x 47 x 18.5 mm [LxWxH]
Weight	99 g
Battery	820 mAh Li-Ion
Operation time	300 hrs. standby 5 hrs. talk
Display	132x176 pixels TFT
Camera	1.3 Megapixel sensor
Data storage	24 MB internal, RS-MMC up to 1GB
Interfaces	Serial, IrDA, USB 2.0, Bluetooth, connector for external antenna by using a phone cradle
Card reader	Mini-SIM
Audio	Integrated hands free
Temperature range	-10°C to +55°C

System / Standards

Frequency bands	GSM-R/EGSM900/GSM1800/GSM1900
RF output power	Class 4 [2 W] for GSM-R/EGSM900 Class 1 [1 W] for GSM1800/GSM1900
Audio	Triple-rate codec for HR, FR and EFR AMR for non ASCII apps supported
GPS	External Bluetooth® GPS receiver supported

Data services

GPRS class 10	
EDGE class 10	
CSD	
Fax group 3, class 2	
Messaging	MMS, EMS, SMS, CB, IM
Internet access	WAP 2.0
E-mail client	SMTP, POP3

ASCII / EIRENE

VGCS, VBS, UUS1, eMLPP
FN, PFN, REC

Test monitor

- TrioTrace ME midlet for network monitoring without PC
- QoS information for GSM-R, GSM, GPRS and EDGE
- Forcing functions for channel, band or voice codec
- Scanning of single ARFCN or entire band
- Measurement data storage internal or on MMC card
- Automatic measurement recording is supported after switching on

TrioTrace2 PC application

- TrioTrace2 SW to visualize the stored measurement data
- Analyze stored measurement data in customizable windows
- Replay for post analyzing
- Export of stored trace files in different formats

The screenshot shows the TrioTrace2 PC application interface. It features a top toolbar with icons for search, zoom, and other functions. The main display area is divided into several sections:

- Mobility**: A section with icons for various network services and a status indicator.
- Atch GMM**: A section showing network parameters like PTMSI (E5 26 7D CF), TLLI (E5 26 7D CF), and T3314.
- Monitor GSM RAC**: A section with a 'Back' button and a 'Subset GSM P 1/2' indicator.
- RF: 0** and **RX: -106**: Real-time signal strength and quality indicators.
- Graphs**: A bar chart at the bottom showing signal levels over time.
- Navigation**: Buttons for '(up) Previous' and '(down) Next'.

The screenshot shows the TrioTrace2 PC application interface displaying a 3D visualization of a network area. The main window is titled 'C:\Documents and Settings\Wolfgang Metzler\My Recent Documents\Messung\tele\trio211.d' and shows a 3D map with various network parameters overlaid. The map is color-coded by signal strength and includes labels for 'Handover#1', 'Handover#2', and 'Handover#3'. The interface includes a top toolbar, a left sidebar with various data tables (e.g., 'Layer 1', 'Layer 2', 'Layer 3'), and a bottom status bar. The data tables show parameters like 'DEDICATED', 'BCHCH', 'TA', 'PL', 'Rx Full', 'Rx Sub', 'Qual Full', 'Qual' and 'RR' (Radio Resource) information.

Part no.

TM-S75a GPS 3077

