



GSM-R test monitor



Serving Cell			
BCCH	69	BSIC	4.6
Rx			-82
Tx	33	C/I	27.6
C1	26	C2	26
RM	-107	DSC	15/15
BPM	6	CCH	0
CI	9112	TS	0
LAI	262-02F-882		

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

ASCI / 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

Mobility

Atch GPRS while IMSI ready

GMM PTMSI E5 26 7D CF

TTLI T3314 E5 26 7D CF

Monitor GSM RAC

Subset GSM P 1/2 RF: 0 RX: -106

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(up) Previous (down) Next

Part no.

TM-S75a GPS 3077

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

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. The top window displays network parameters for a specific channel, including ARFCN, BCH, and channel mode. Below this, there are several graphs showing signal strength and quality over time. The bottom window shows a 3D map view of the signal coverage area, with various colored regions indicating different signal levels or network states. The map includes labels for 'Handover 1', 'Handover 2', and 'Handover 3'.