



special products for special customers

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Triotrace Test System

TTS-S75(R)



Approved GSM Test
Technology

Datasheet

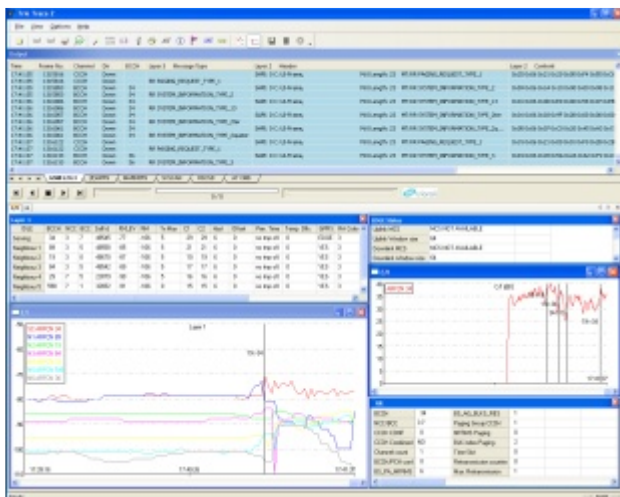
TTS-S75(R)

Features

- Weight: 99 g
 - Dimensions: 103 x 47 x 18.5 mm
 - TFT colour display:
 - 132 x 176 pixels,
 - 262144 colours
 - Li-Ion battery (820 mAh)
 - Standby time: 300 h
 - Talktime: 300 min
 - Charging time: Less than 2 h for 100%
 - 1.3-megapixel camera with integrated LED flash
 - 24 MB internal memory
 - Integrated RS-MMC slot for up to 1GB
 - Interfaces: USB 2.0, Bluetooth®
 - Integrated hands free feature
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- TTS-S75 supports GSM 900 / 1800 / 1900
TTS-S75R additionally supports GSM-R
 - GPRS class 10 up to 53.6 Kbps
 - EDGE up to 384 Kbps
 - CSD up to 14.4 Kbps, fax group 3, class 2
 - Voice coding:
 - half rate, full rate, enhanced full rate
 - adaptive multi rate
 - MMS, EMS, SMS, cell broadcast, instant messaging
 - Mobile Internet access (WAP 2.0)
 - E-mail client SMTP, POP3

Triotrace PC Application

- Trace log recording
- Online/offline protocol analysis



Special Features

Two serial ports over USB for simultaneous trace information and data transfer (CSD/GPRS) or AT-Cellular-Commands.

GSM Traces

- Radio environment information
- Received level
- Idle and transfer parameters
- Serving / neighbour cell frequency
- Cell reselection parameters
- Mobility management information
- Authentication
- Ciphering
- Location (Cell Identity, LAC, MCC, MNC)
- Protocol messages monitoring
- Layer 2: LAPD-m
- Layer 3: RR, MM, CM
- Quality of Service
- Downlink signalling
- RLC and Handover Counter
- Codec state (HR, FR, EFR, AMR)
- DTX state

GPRS Traces

- GPRS Mobility management information
- Identity
- SNDCP compression
- GPRS Session management information
- PDP QoS
- IP Address
- Location: Cell Identity, RAC, LAC, MCC, MNC
- RLC/MAC information
- Packet channel information:
 - frequency,
 - timing advance
 - time slots
- Protocol messages monitoring
- RLC/MAC: control blocks, data blocks
- GMM/SM: GPRS attach, PDP activation
- Quality of Service
- RLC throughput, Block error rate,
Block retransmission rate
- LLC throughput, frame retransmission rate

GSM/GPRS forcing functions

- Channel
- Band
- Voice Codec

Scanning capabilities

- single ARFCN
- set of frequencies
- complete band