# <n>

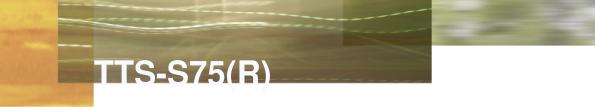
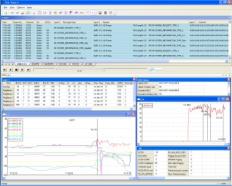
## trioroil

**special products for special customers**



Approved GSM Test Technology

Datasheet



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
* 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

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