

MTX-65i Terminal

Intelligent Java enabled application GSM/GPRS Terminal



Powered by CINTERION Wireless
Module TC65i, TC63i, and MC75i.

Self-Contained
Unit

Quad Band GSM

GPRS Class 12

2 RS232 serial
ports

USB port

Wide and useful
range of I/Os

Integrated
TCP/IP Stack

MTX-65i: JAVA
application

MTX-65i TERMINAL

The MTX-65i terminal is an intelligent GSM/GPRS terminal that encapsulates everything you need in one compact plug-and-play unit. Its small size, the standardized connector interfaces and its own SIM card reader all minimise the need for further hardware components and facilitate integration.

The MTX-65i includes Java embedded programmability, a full range of I/Os and can operate with AT commands like a normal modem.

The Quad Band functionality allows operation in all relevant GSM frequencies.

Embedded application: The MTX-65i compact self-contained unit can host and control your Java J2ME application in conjunction with SDK package, allowing you to develop and embed your code directly onto the MTX-65i, shortening time to market and reducing costs. The MTX-65i has an automatic power restart in case of power faulty conditions.

The USB and RS232 ports allow connectivity to PCs, control boards and other peripherals like GPS, Bluetooth, RFID or other devices.

The MTX-65i terminal is an all-in-one solution enabling voice, SMS, fax and data, and GPRS with its powerful TCP-IP stack communication with Internet Services: TCP, UDP, HTTP, FTP, SMTP, POP3.

The MTX-65i is RoHs & WEEE compliant. It is manufactured with the ISO 9001 & ISO 14001 Quality certifications.

A full list of antennas, cables, supplies and accessories are available.

General features:

- Quad-Band GSM 850/900/1800/1900 MHz
- GPRS multi-slot class 12
- GSM release 99
- Output power:
 - Class 4 (2 W) for EGSM850 & EGSM900
 - Class 1 (1 W) for GSM1800 & GSM1900
- Control via AT commands (Hayes 3GPP TS 27.007 and 27.005)
- SIM Application Toolkit (release 99)
- TCP/IP stack access via AT commands
- Internet Services: TCP, UDP, HTTP, FTP, SMTP, POP3
- Supply voltage range: 6 ... 30 V
- Power modes
 - Power down
 - Sleep mode
 - Idle mode
 - Airplane mode
- Temperature range
 - Operation: -30°C to +75°C
 - Storage: -40°C to +85°C
- Dimensions. Excluding connectors: 78.1 x 66.8 x 37.2 mm
- Weight: < 190 g

Interfaces:

- FME M 50 Ohm antenna connector
- Expansion Port: 15-way HD-Dsub:
 - 4 Digital Input/Outputs
 - 2 Analog Inputs
 - 1 x I2C/SPI bus
 - 1 x 2-wires RS232 UART
- 9 pin sub-D connector for serial interfaces (ITU-T V.24 protocol)
- USB 2.0 port
- Operating status LED
- SIM card interface 3 V, 1.8 V
- Plug-in power supply
- Handset audio interface

Ordering information: MTX-65i: 199.801.116

Specification for EDGE (only MTX-75i)

- Multi-slot Class 12
- Mobile Station Class B
- Modulation and Coding Scheme MCS 1-9

Specification for GPRS data transmission:

- GPRS class 12
- Mobile station class B
- PBCCH support
- Coding schemes CS 1-4

Specification for CSD data transmission:

- Up to 14.4 kbit/s
- V.110
- Non-transparent mode
- USSD support

Specification for SMS:

- Point-to-point MO and MT
- SMS cell broadcast
- Text and PDU mode

Specification for fax:

- Group 3, class 1, 2

Specification for voice:

- Triple-rate codec for HR, FR, and EFR
- Adaptive multi-rate AMR
- Basic hands-free operation
- Echo cancellation, Noise reduction

Open application resources (only MTX-65i)

- ARM9© Core, Blackfin© DSP
- Memory: 400 KB (RAM) and 1.7 MB (Flash)
- Improved power-saving modes
- Internal Watchdog

Java™ features (only MTX-65i):

- CLDC 1.1 HI
- J2ME™ profile IMP-NG
- Secure data transmission with HTTPS, SSL and PKI

Over-the-air update (only MTX-65i):

- Application SW: OTAP and incremental OTAP
- Firmware: FOTA (OMA compliant)

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