

MTX-IND TERMINAL

INDUSTRIAL APPLICATIONS GSM/GPRS TERMINAL



Powered by CINTERION Wireless
TC65i Module



Quad Band GSM

GPRS Class 12

4 Relays 1P1C
250V/6Amp

2 configurable
inputs / outputs

2 configurable
RS232-RS422-
RS485 ports

USB, SPI/I2C port

4 optoisolated
inputs

Integrated SIM
holder

Integrated
TCP/IP Stack

JAVA
applications

MTX-IND TERMINAL

The MTX-IND terminal is a new GSM/GPRS terminal designed for an INDUSTRIAL environment. The Quad Band functionality allows operation in all relevant GSM frequencies and the GPRS class 12 allows fast data transmission.

The MTX-IND is sized in DIN 9 modules for DIN rail housing, containing all the necessary interfaces used in industrial applications: 2 configurable RS232 / RS422 / RS485 bus, 4 relays 1P1C, optoisolated inputs/outputs, 0-2.4V or 0-20mA analog inputs...

Together with the SIM card reader, it minimises the need for further hardware components and facilitates integration. The auto power-on feature allows it to restart in any power-fault condition.

Input power is 12-24 VAC or 12-30 VDC which is very common for power rails in industrial environments.

The MTX-IND includes Java embedded programmability and a full range of I/Os. The unit can host and control your Java J2ME application allowing you to develop and embed your code directly inside, shortening time to market and reducing costs. The new internal Watchdog supervisor avoids hang-ups.

The USB, SPI/I2C and serial ports allow it to connect to PCs, control boards and other peripherals like GPS, Bluetooth, RFID or other devices.

The MTX-IND terminal is able to handle Voice and Data calls, SMS, Fax and GPRS with its powerful TCP-IP stack communication and Internet Services: TCP, UDP, HTTP, FTP, SMTP, POP3.

The MTX-IND is RoHS, WEE, FCC and CE 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:
DC input: 12 - 24 VDC; typ 12 VDC
AC input: 12 - 24 VAC; typ 24 VAC
- Power consumption:
 - Idle mode (registered DRX = 2) 17 mA
 - Speech mode (average) 250 mA
 - GPRS class 12 (average) 570mA max
- Temperature range
 - Operation: -20°C to +75°C
 - Storage: -40°C to +85°C
- Dimensions. Excluding connectors: 157 x 86 x 58 mm
- Weight: < 300 g

Interfaces:

- FME M 50 Ohm antenna connector
- 52 pluggable terminals 5,00 pitch (45 usable)
 - 2 Digital Inputs/Outputs
 - 4 Optoisolated Inputs
 - 2 Analog Inputs
 - 1 Analog Output (PWM)
 - 1 x I2C/SPI bus
 - 2 Configurable RS232/RS485/RS422 ports
 - 4 form C switching contact relay
- USB 2.0 port
- 2 Operating status LEDs
- SIM card interface 3 V, 1.8 V

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

Open application resources

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

Java™ features

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

Over-the-air update

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

Ordering information: MTX-IND: 199.801.103

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