

MTX-IND TERMINAL

INDUSTRIAL APPLICATIONS GSM/GPRS TERMINAL



Powered by CINTERION Wireless
TC65i Module



Quad Band GSM

GPRS Class 12

4 Relays 1P1C
250V/8Amp

2 optoisolated
configurable
inputs / outputs

2 configurable
RS232-RS422-
RS485 ports

USB, SPI/I2C port

4 optoisolated
inputs

2 analog input
1 analog output

Integrated
TCP/IP Stack

JAVA
applications

MTX-IND TERMINAL

The MTX-IND terminal is a new GSM/GPRS terminal designed for 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, analog inputs...

Together with the SIM card reader minimises the need for further hardware components and makes it easy to integrate. The auto power-on feature allows being restarted in any power-fault condition.

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

MTX-IND include Java embedded programmability and full range of I/Os. The unit can host and control your Java J2ME application allowing developing and embedding your code directly inside, shortening time to market and reducing costs. The new internal Watchdog supervisor avoids hangs-up.

The USB, SPI/I2C and serial ports allow connectivity to PC's, control boards and other peripherals like GPS, Bluetooth, RFID or other devices.

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

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 and supplies 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: 9 - 28 VDC; typ 12 VDC
AC input: 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 plugable terminals 5,00 pitch:
 - 4 Digital Input/Output
 - 2 Analog Input
 - 1 Analog Output (PWM)
 - 1 x I2C/SPI bus
 - 2 Configurable RS232/RS485/RS422
- USB 2.0 port
- 2 Operating status LEDs
- SIM card interface 3 V, 1.8 V
- Plug-in power supply
- Handset audio interface

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

- 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: 199.801.104

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