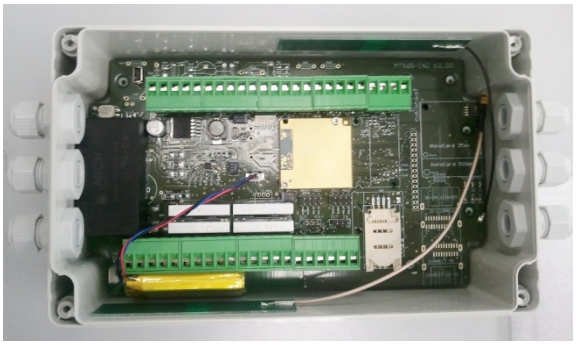
MTX-IND-V2 Terminal

Industrial Outdoor applications GSM/GPRS terminal with RF options

CINTERION WIRELESS MODULES
Approved Distributor

Powered by CINTERION
Wireless TC65i Module



- Quad Band GSM
- GPRS Class 12
- JAVA applications
- 90-264 VAC
  120-370 VDC
  9-30 VDC
  Li-Po battery
- 4 Relays 1P1C
  250V/8A
- 2 configurable optoisolated inputs / outputs
- 4 optoisolated inputs
- 2 analog inputs (4-20mA config)
- 2 configurable RS232-RS422-RS485 ports
- USB, SPI/I2C ports
- Integrated SIM holder
- Integrated TCP/IP Stack
- Optional:
  GPS
  Ethernet/WiFi
  RF ISM 868MHz
  Bluetooth
  ZigBee
  Wireless MBUS

MTX-IND-V2 TERMINAL

The new IP65 enclosure MTX-IND-V2 terminal is a new GSM/GPRS terminal designed for outdoor INDUSTRIAL environment or waterproof featured applications.

The Quad Band functionality allows operation in all relevant GSM frequencies and the GPRS class 12 allows fast data transmission.

The MTX-IND-V2 is fully configurable and contains all the necessary interfaces used in industrial applications: 2 configurable RS232/RS422/RS485 bus, 4 relays 1P1C, 2 configurable optoisolated inputs/outputs, 4 isolated digital inputs, 2 analog inputs.

MTX-IND-V2 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, minimizing the need for further hardware components and making your M2M application easy to integrate.

RF 868MHz radio frequency optional modules such as WaveCard (Coronis -Wavenis) can be added internally to the TC65i ASC1 port and create a RF network, featuring a GSM/GPRS-RF gateway or concentrator. Remote IP68 units with low power RF-Wavenis are also available with sensors: temperature, I/Os, 4-2mA, 0-10V.
Ethernet or WiFi optional modules can be added internally to TC65i ASC0, featuring a WiFi/Ethernet-GSM/GPRS-RF gateway or concentrator. All these features need to be JAVA programmed.
There are other RF optional modules like: GPS, Bluetooth, ZigBee, RF-ISM, Wireless MBUS, RFID or other external devices.

Input power is mains 90-264 VAC/120-370 VDC/9-30 VDC. Internal Li-Po 1650mA/h battery is included to ensure that the MTX-INMD-V2 keeps working for a few hours without external power supply. External antenna with SMA connector (by default) and internal antennas can be also accommodated under request.

The auto power-on feature allows it to restart in case of any power faults. The new internal Watchdog supervisor avoids hangs-up.

The MTX-IND-V2 terminal is able to handle Voice and Data calls, SMS, Fax, and GPRS with its powerful TCP-IP stack communication with Internet Services: TCP, UDP, HTTP, FTP, SMTP, POP3. The USB and serial ports allow connectivity to PCs.

The MTX-IND-V2 is RoHs, WEE, FCC and CE compliant. It is manufactured with the ISO 9001 & IS0 14001 Quality certifications.

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:
- AC input: 230VAC (90-264 VAC/120-370 VDC)
- DC input: 24 V (9-30 VDC)
• Temperature range
- Operation: -20°C to +75°C
- Storage: -40°C to +85°C
• Dimensions. Excluding connectors or cable glands:
200x120x77 mm
• Weight: < 500 g

Interfaces:
• External antenna
SMA F 50 Ohm antenna connector
• Optional Internal 5 bands 2.5dB antenna by request
• 45 pluggable terminals 5,00 mm pitch
- 2 Digital Optoisolated Input/Output
- 4 Optoisolated Analog Input
- 2 Analog Input (4-20mA configurable)
- 1 Analog Output (PWM)
- 2 Configurable RS232/RS485/RS422 ports
• USB 2.0 port
• 4 Operating status LEDs
• SIM card interface 3 V, 1.8 V
• 6 x IP68 Cable glands

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

Internal modules
-RF 868 MHz module with internal antenna. Indented to make a concentrator/gateway for a RF mesh network for MTX-Remote units and other vendors.
-ETHERNET/WIFI module. Intended to create a Ethernet/WiFi - GPRS gateway or ETH – RF gateway
-GPS module with internal or external antenna optional

Open application resources
• ARM9© Core, Blackfin© DSP
• Memory: 400 KB (RAM) and1.7 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 and incremental OTAP
• Firmware: FOTA (OMA compliant)

MODEL	Order number	RS232/ RS485	RF module Wavecard	Ethernet / WiFi	In/Out	Relay Out	1650 mA/h Battery	NOTE
MTX-IND V2.0	199801127	2	-	-	2 opto IO 4 opto IN 2 Analog IN	4	YES	
MTX-IND-WC25 V2.0	199801117	1	25 mW	-	2 opto IO 4 opto IN 2 Analog IN	4	YES	
MTX-IND-WC500 V2.0	199801122	1	500 mW	-	2 opto IO 4 opto IN 2 Analog IN	4	YES	
MTX-IND-WC25 V2.0 low cost	TBD	1	25 mW	-	-	-	NO	MOQ
MTX-IND-WC500 V2.0 low cost	TBD	1	500 mW	-	-	-	NO	MOQ
MTX-IND-WC500-ETH V2.0	TBD	0	500 mW	YES	2 opto IO 4 opto IN 2 Analog IN	4	YES	
MTX-IND-ETH V2.0	199801130	1	-	YES	2 opto IO 4 opto IN 2 Analog IN	4	YES	
MTX-IND-WC25 v2.0 (C-AD)	199801099	0	25 mW	-	2 OUT 1 Analog IN 3 opto IN	-	YES	MOQ
MTX-IND Low Cost v2.0(C-AK)	199801126	0	-	-	4 opto IN	2	YES	MOQ

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