#WeAreConnectivity

SMART SOLUTIONS FOR A CHANGING WORLD

MTX-65i

Intelligent Java enabled application GSM/GPRS M2M Modem

The MTX-65i modem is a solution consisting of a Java J2ME programmable modem that enables GSM Voice, SMS, Fax and Data (GPRS class 12). The quad band functionality allows it to operate at all relevant GSM frequencies. It has an intrinsic and powerful TCP/IP communication stack with Internet Services.

A powerful GSM/GPRS radio system with USB, RS232 and I2C serial ports. It includes Analog-to-Digital converters and GPIOs. You can develop and embed your Java J2ME code directly onto the modem to shorten time to market and reduce costs by avoiding external components. The MTX-65i can operate with standard AT commands like a normal modem.

It is also compatible with MTX-Tunnel, an optional firmware that can be executed in our MTX modems to use them as powerful GPRS or 3G gateways.

MAIN FEATURES

- Java
- GSM/GPRS quad band
- I2C, SPI, GPIO
- RS232
- USB 2.0
- Analog I/Os
- Industrial temperature
- Automatic restart
- MTX-Tunnel

- DC input: 6.5-40 Vdc
- Temperature range: -30º to +85ºC
- Dimensions: 78.1x66.8x37.2mm
- Weight: <190gr

Preliminary Datasheet. Subject to changes | 2017/09

mtxm2m.com

HARDWARE FEATURES

MTX-65i-2G
Quad band GSM: 850, 900, 1800, 1900MHz
GPRS class 12 data rates: DL max. 86 kbps, UL max. 86 kbps
SMS text messages

General Features

- SIM application toolkit, 3GPP release 99
- Control via AT commands
- TCP/IP stacks access via AT commands
- Internet services: TCP, UDP, HTTP, FTP, SMTP, POP3

Special Features

- USB interfaces support composite modes and Linux/Mac compliant mode
- Firmware update via USB/RS232
- Real Time Clock with alarm functionality
- Multiplexer according 3GPP TS 27.010
- RLS monitoring (jamming detection)
- Informal network scan

Java Features

- CLDC 1.1 HI
- J2ME profile IMP-NG
- Software watchdog for applications
- Additional accessible perithery for Java applications: I/O pins, I2C, SPI interfaces, ADC/DAC; serial interfaces (API): ASC0, ASC1

Interfaces

- GSM FME M antenna connector
- USB 2.0
- SIM card interface 1.8V and 3V
- DB9 female connector
- HD-Dsub15 female connector: RS232 (2-wire), I2C/SPI, 4x GPIO, TTL IOs GPIO, 2x analog inputs, analog output
- Operating status LEDs
- Plug-in power supply, handset audio interface (RJ12 connector)

Open Application Resources

- ARM Core, Blackfin DSP
- Memory: 400KB (RAM) and 1.7MB (Flash)
- Improved power-saving mode

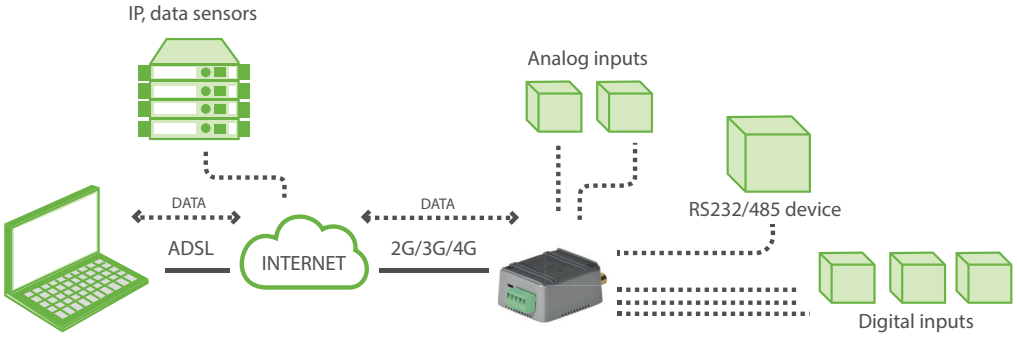
Over-the-air Update

- Applications SW: OTAP

Ordering Information

MTX-65i	**199801311**

TUNNEL SOFTWARE FEATURES



MAIN FEATURES

- 2G 3G/4G — Serial to 2G/3G/4G
- IN OUT — GPIO control
- GPS management
- Dyn DNS — DynDNS and No-IP
- Internal web server
- RF mesh concentrator
- Intelligent relays
- SMS — SMS to serial

Connectivity

- 2G/3G/4G serial gateways: TCP client, TCP server, UDP client/server, accept incoming CSD calls, up to 2 simultaneous tunnel
- GPRS connectivity mode: permanent 100% time, under request (SMS, missed call), change on a digital input, analog input out of level, serial data on RS232/RS485 port, scheduled date/hour/time

TCP Services

- Web server and Telnet
- Remote access by web browser
- Shows the status of digital and analog inputs
- Change digital output level and relays
- Execute AT commands remotely

Security

- Authorized phone numbers
- Firewall IP
- SSL connections

SMS Alarm and Control

- Send SMS alarm when the level of digital input change
- SMS can be sent to up 10 remote users
- Execute remote AT commands
- Change the status of digital outputs & relays
- Alias method is allowed

Solutions for Dynamic IP

- GPRS session using a SMS or missed call
- DynDNS and NoIP
- Private DNS

Metering, Modbus, Sensors...

- 868 MHz remote monitoring sensors (Wavenis)
- Modbus RTU devices
- Relays control
- Access to serial devices using GPRS and GSM