

#WeAreConnectivity

SMART SOLUTIONS FOR A CHANGING WORLD

MTX-StarEnergy-M

Industrial IoT modem with LTE for metering applications

The MTX-StarEnergy-M is an innovative industrial modem that comprises a set of features specially oriented for the electric market.

One of the most remarkable features of the MTX-StarEnergy-M is the self-provisioning according to the SIM card inserted: the router is able to detect the service provider according to the SIM inserted and autoconfigures itself (APN, sockets, etc.) depending on the provider.

Also important is the selection of the service provider according to the quality of the service. In roaming SIM cards, the router analyzes the quality of the signal from several service providers and automatically connects to the one with the best quality.



MAIN FEATURES



LTE connectivity



USB 2.0



Ethernet



RS232/422 /RS485



230Vac



DIN rail



Legacy communications



TACACS+





Web server Serial gateway



SNMPv3





Firewall



Watchdog

AC input: 230Vac (0.8Vn-1.15Vn) Class II electrical protection, double insulation

□ Dimensions: 112x51x75mm

Weight: <500gr</p>











Preliminary Datasheet. Subject to changes | 2019/04 MTX © by MATRIX ELECTRONICA S.L.U. **SUPPORT:** iotsupport@mtxm2m.com

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HARDWARE FEATURES

| | MTX-StarEnergy-M Cat.1 | MTX-StarEnergy-M Cat.4 |
|-----|---|---|
| (A) | LTE FDD: B1/B3/B5/B7/B8/B20 WCDMA: B1/B5/B8 GSM: B3/B8 | LTE FDD: B1/B3/B5/B7/B8/B20 WCDMA: B1/B5/B8 GSM: B3/B8 |
| 4G | LTE FDD: Max 10Mbps (DL)/Max 5Mbps (UL) | LTE FDD: Max 150Mbps (DL)/Max 50Mbps (UL) |
| 3G | DC-HSDPA: Max 42Mbps (DL) HSUPA: Max 5.76Mbps (UL) WCDMA: Max 384Kbps (DL)/Max 384Kbps (UL) | DC-HSDPA: Max 42Mbps (DL) HSUPA: Max 5.76Mbps (UL) WCDMA: Max 384Kbps (DL)/Max 384Kbps (UL) |
| 2G | EDGE: Max 296Kbps (DL)/Max 236.8Kbps (UL) GPRS: Max 107Kbps (DL)/Max 85.6Kbps (UL) | EDGE: Max 296Kbps (DL)/Max 236.8Kbps (UL) GPRS: Max 107Kbps (DL)/Max 85.6Kbps (UL) |
| CSD | CSD data transmission up to 9.6 kbps, V.110, non-transparent | CSD data transmission up to 9.6 kbps, V.110, non-transparent |
| SMS | SMS text and PDU mode | SMS text and PDU mode |

Interfaces

| 4G 3G/2G | 4G/3G/2G | connectivity |
|-------------|------------|---------------|
| 3G/2G | Tu/ 5u/ 2u | COMMICCURVICY |



Ethernet 10/100 BaseT

1x RS232/422/485 (4 wire)

CSD call

SIM card interface 1.8V/3V

(L) 230Vac

DIN rail/wall mounting

4x status LEDs

Connectors

| A | USB A type connector: USB 2.0, Ethernet |
|---|---|
| Ų | USB A type connector: USB 2.0, Ethernet |



SIM

Terminal block: power supply (2-way plug-in 5mm)

2x SMA F antenna conectors: 4G/3G/2G

SIM holder (internal)

uSIM (external)



TITAN SOFTWARE FEATURES

Serial Gateways



3 simultaneous 2G/3G/4G/Eth/WiFi <-> RS232/485/USB gateways



Modes: TCP server/TCP client



SSH encryption enabled, supports TATACS+



Incoming CSD call for metering applications

SMS



Full control by SMS with phone number authorizations



Alarms (digital input, temp., MBus data read)



Send/receive SMS by Modbus TCP (for PLC)

Other



Self-provisioning according to the SIM card inserted: the router is able to detect the service provider according to the SIM inserted and autoconfigures itself (APN, sockets, etc.) depending on the provider



Watchdog



GSM cell location



Programmable autoreset (schedule, timer...)



Time synchronization (NTP) with timezones



Over The Air firmware upgrade



Full management with AT Command by serial, socket, SMS, modbus, SNMP, ...



NAT, firewall, DHCP, etc. and other standard router characteristics



4G connectivity supervisor to maintain connection always active



Internal configuration webserver (all logos and pictures can be customized by user)



Clear and understandable application notes with examples (serial gateways, modbus, datalogger, SMS, metering, SNMPv2 and SNMPv3...)



Traffic control (prevents excessive data traffic consumption), TACACS+ (for HTTP, Telnet and SSH), multiuser profiles



VPN available depending on the requirements of the final application

^{*}The Titan network architecture is protected by nearly 60 hardware and software patents.

