

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 its most remarkable features 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



4G/3G



USB 2.0



RS232
422/485



230V



Legacy
communic.



DIN rail



Rugged
connectors



Webserver



Serial
gateway



SNMPv3



TACACS+



Firewall



Watchdog



SMS
control



VPN
management

■ HARDWARE ■ SOFTWARE

Strenghts & Benefits

- Self-provison of the SIM card: the device detects the service provider and autoconfigures itself.
- It also selects the service provider depending on the quality of service.
- Powered directly to 230V without the need of a power source.
- Industrial rugged connectors.

Applications

- Specially designed for the electric metering market.
- Adaptable to harsh environments: dust, wind, blows, etc.

Specifications

MTX-StarEnergy-M 4G

LTE FDD: B1/B3/B5/B7/B8/B20

WCDMA: B1/B5/B8

GSM: B3/B8

LTE FDD: Max 10Mbps (DL)/Max 5Mbps (UL)

DC-HSDPA: Max 42Mbps (DL)

HSUPA: Max 5.76Mbps (UL)

WCDMA: Max 384Kbps (DL)/Max 384Kbps (UL)

EDGE: Max 296Kbps (DL)/Max 236.8Kbps (UL)

GPRS: Max 107Kbps (DL)/Max 85.6Kbps (UL)

CSD data transmission up to 9.6 kbps, V.110, non-transparent

SMS: text and PDU mode support

Interfaces

- 4G/3G/2G connectivity
- Ethernet 10/100 BaseT
- 1x RS232/422/485 (4 wire)
- CSD call
- 230Vac



Ethernet

RS232/
422/485

USB 2.0

4G/3G/2G
antenna

Status
LEDs

Connectors

- 2x SMA F antenna connectors:
4G/3G/2G
- USB A type connector: USB 2.0,
Ethernet
- DB9 F: RS232/422/485 (4 wire)
- Terminal block: power supply (2-
way plug-in 5mm)
- SIM card holder (internal)
- uSIM (external)

Characteristics

- 4x status LEDs
- DIN rail/wall mounting
- AC input: 230Vac (0.8Vn-1.15Vn)
- Temperature range: -40 - 85°C
- Dimensions: 122x51x75mm
- Weight: <500gr.
- Certifications: CE, FCC, PTCRB,
AT&T, RoHS, ISO9001

MTX-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 TACACS+
- 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

References

PRODUCTS

- MTX-StarEnergy-M **0001998100040**

ACCESSORIES

- MTX-StarEnergy-M-cable RS232 [DB9 M] compatible Actaris/Itron meters [RJ45] **000230001099**
- MTX-StarEnergy-M-cable RS485 [DB9 M] compatible Actaris/Itron meters [RJ45] **000230001100**

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