

MTX-StarEnergy-E

Industrial IoT modem with LTE for metering applications

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

This powerful device allows the reading of IEC 60870-5-102 protocol meters via both IP-RS232/RS485 gateways with priority management through 2G/3G/4G-LTE networks, as well as CSD calls. The MTX-StarEnergy-E also monitors the presence of the meter by sending an alarm in case of no detection.



Main Features

 4G/3G/2G	 USB 2.0	 RS232/485	 AC&DC powered	 Legacy communic.	 DIN rail wall mount	 Fastening triangle mount	 4x status LEDs
 Webserver	 Serial gateway	 SNMPv3	 IEC 60870-5-102 encapsulation	 Firewall	 Watchdog	 SMS control	 VPN management

■ HARDWARE ■ SOFTWARE

Strenghts & Benefits

- AC&DC wide range power supply.
- Easy deployment and rollout.
- Secure connections.
- Quick status view.

Applications

- Specially oriented to the electric metering market.

Specifications

MTX-StarEnergy-E 4G Cat.1

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

WCDMA: B1/B5/B8

GSM/EDGE: B3/B8

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

DC-HSDPA+: 42Mbps (DL)/5.75Mbps (UL)

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

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

GPRS: 107Kbps (DL)/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
- 1x RS232/422/485 (4 wire)
- RTC with Super-Capacitor based backup energy
- Supercapacitor for power fault alarm

Connectors

- SMA F antenna connectors: 4G/3G/2G
- USB A type connector: USB 2.0
- RJ45: RS232/422/485 (4 wire)
- miniSIM
- Terminal block: power supply (AC: 2-way 3.5mm, DC: 2-way 3.5mm)

Characteristics

- 4x status LEDs
- DIN rail/triangle wall mounting
- AC input: 100-240VAC DC input: 48-110VDC
- Temperature range: -25 - 70°C
- Temperature limit: -40 - 85°C
- Storage temperature: -40 - 85°C
- Dimensions: 175x100x45mm
- Weight: 300gr.
- Certifications: RED 2014/53/UE, RoHS, ISO9001

MTX-Titan Software Features

SERIAL GATEWAYS

- 2G, 3G, 4G; AUTO 2G/3G/4G; AUTO 24 (2G/3G)
- Modes: TCP server
- SSH encryption enabled
- Incoming CSD call for metering applications

SMS

- Full control by SMS with phone number authorizations

DIRECTIVES

- RED 2014/53/UE compliant

OTHER

- Watchdog
- GSM cell location
- Programmable autoreset (schedule, timer...)
- Time synchronization (NTP) with timezones
- Over The Air firmware upgrade. SFTP Client for firmware updating and configuration
- Remote management with commands through: SSH, SMS, SNMP
- Firewall, DHCP, etc. and other standard router characteristics
- 4G connectivity supervisor to maintain connection always active
- Internal Webserver configuration through HTTPS, and/or direct cable USB connection
- Multiuser profiles
- VPN IPsec
- Syslog, events register

References

PRODUCTS

- MTX-StarEnergy-E **000199810130**

ACCESSORIES INCLUDED

- MTX-StarEnergy-E cable (RS232/RS485) [RJ45] to [DB9 M] Tipo2 **000230001103**
- MTX-Antenna STUBBY GSM5+LTE700/2700 SMA M R/A **000118009286**

OPTIONAL ACCESSORIES

- MTX-T ACC Data Cable USB A M - USB A M - 2m **000118001114**

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