MTX-Router-Q
LTE cat.4/4G entry level industrial IoT router

The MTX-Router-Q is an innovative industrial router with Gigabit Ethernet. By providing an easy integration and powerful interfaces, it avoids further hardware components. It can be used in infinite IoT applications. It has LTE cat.4 connectivity with 3G/2G fallback.

The MTX-Router-Q also includes advanced functionalities such as: DHCP server, NAT, among others. It is powered by internal AC power supply and it has an internal battery for allowing a long term working hours.

Main Features

4G 3G/2G	Giga Ethernet	AC power supply	LiPo battery	DIN rail	Webserver	SMS control	Email
4G/3G/2G	Giga Ethernet	AC power supply	LiPo battery	DIN rail	Webserver	SMS control	Email

■ HARDWARE ■ SOFWARE

Strenghts & Benefits

- With Gigabit Ethernet.
- LTE cat.4 with 3G/2G fallback.
- It has all the functionalities of MTX-Titan software.

Applications

- Industrial router for infinite IoT applications.

Specifications

MTX-Router-Q [4-B-N] Cat.4

5Band LTE: 700, 800, 900, 1800, 2100 MHz, 2Band GSM 900 & 1800 MHz; UMTS: 900, 2100 MHz

LTE Cat.4 (3GPP Release 9): DL 150Mbps, UL 50Mbps

HSPA Cat.8 (3GPP Release 8): DL 7.2Mbps, UL 5.7Mbps
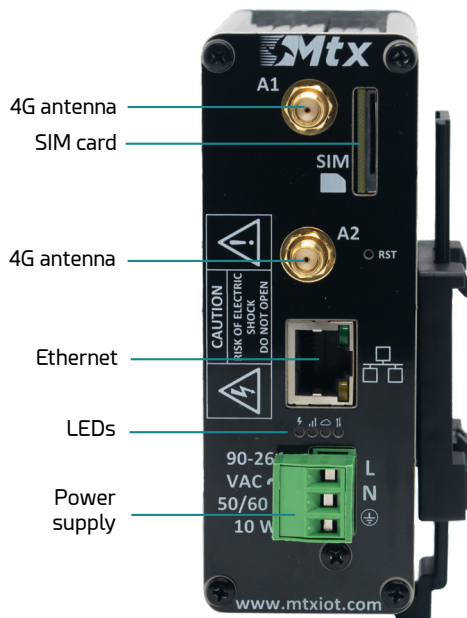**UMTS** (3GPP Release 4): PS data rate DL 384 kbps, UL 384 kbps; CS DL 64 kbps, UL 64 kbps

EDGE Class 12 data rates: DL 237 kbps, UL 237 kbps
GPRS Class 12 data rates: DL 85.6 kbps, UL 85.6 kbps

SMS text and PDU mode support

Interfaces

- 4G/3G/2G connectivity
- 1x Ethernet 10/100/1000 BaseT

Connectors

- 2x SMA F: antenna connectors
- RJ45: Ethernet 10/100/1000 BaseT
- Terminal block: power supply
- SIM: SIM card interface 1.8V/3V

Characteristics

- LiPo battery**
- 4x status LEDs
- DIN rail
- Power supply: 85-260VAC/120-360VDC
- Temperature range: -40 - 85⁰C
- Dimensions: 40x112x78mm
- Weight: <500gr.
- Certifications: CE, FCC, PTCRB, AT&T, RoHS, ISO9001

- 4G antenna
- SIM card
- 4G antenna
- Ethernet
- LEDs
- Power supply

MTX-Titan Software Features

MAIN FEATURES

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

SMS

- Full control by SMS with phone number authorizations
- Alarms (digital input, temp., MBus data read)

*LiPo battery temperature operation limits:
Charge: 0 to 45⁰C
Discharge: -10 to 60⁰C
NTC battery inside regulate charging current according to changing temperature limits.

**Working autonomy of battery depends on three main factors:
GSM network management policies
Signal network level and coverage
Transmission speed and amount of data required to the router
Following values has been determined under average conditions for signal level and GSM network policies, with a avererage speed of DL: 50Mbps/UL: 25Mbps.
Up to 4 hours normal operation transmitting and receiving data, and another additional 24 hours just ready for transmission/reception.

References

PRODUCTS

- MTX-Router-Q [4-B-N]   **000199810200**