Join our
IoT WORLD
#WeAreIoTConnectivity

MTX-ROUTER-TITAN II-R AUS version

LTE/4G/3G/2G & dual Ethernet industrial IoT router

The MTX-Router-Titan II-R is an innovative industrial router with a complete set of interfaces including two Ethernet ports, rugged connectors more resistant to vibrations and IEC 6 1076-2-101/104 compliant. By providing an easy integration and powerful interfaces, the MTX-Router-Titan II-R avoids further hardware components. It also includes advanced functionalities such as: DHCP server, NAT, CSD call manager, 4G to RS232/ USB gateways, external sensor dataloggers (temperature, distance, Modbus RTUs), DynDNS/NoIP client, GSM cell positioning, remote firmware upgrade, among others.

MAIN FEATURES

- 4G — Optional modem
- Dual Ethernet
- RS232 RS485
- CAN
- WiFi
- DIN Rail — DIN rail
- Rugged connectors
- Webserver
- 4G 3G/2G — Serial gateway
- Modbus
- Datalogger
- SMS — SMS control
- Dyn DNS — DynDNS No-IP
- >_ — MQTT
- VPN — VPN management

● Hardware features ● MTX-Tunnel software features

CERVELLO STEM - IOT PLATFORM

FREE FOR ONE YEAR WITH MTX DEVICES*

- Autoprovisioning
- Alarms and Alerts
- Remote Control
- Real time Dashboards
- Rules engine
- Monitoring engine
- Analytics
- Remote update

*Available with compatible devices that have MTX-Tunnel or MTX-Titan

- DC input: +9 to +36 Vdc
- Temperature range: -40º to +85ºC
- Dimensions: 113.1x40x60

Datasheet subject to changes | 2020/07
MTX © by MATRIX ELECTRONICA S.L.U.
SUPPORT: iotsupport@mtxm2m.com
SALES: info@mtxm2m.com
mtxm2m.com

HARDWARE FEATURES

OPTIONAL miniPCIe SPECIFICATIONS MTX-ROUTER-TITAN II-R 4G	
	Penta-Band LTE: Bands 1, 3, 8, 20, 28* (700*, 800, 900, 1800, 2100 MHz), Dual-Band GSM 900 & 1800 MHz
4G	LTE Cat.1 (3GPP Release 9): DL 10.2Mbps, UL 5.2Mbps
3G	HSPA: DL 7.2Mbps, UL 5.7Mbps UMTS PS: DL 384Mbps, UL 384 Mbps, CS: DL 64Mbps, UL 64Mbps
2G	GPRS Class 12: DL max. 85.6 kbps, UL max 85.6 kbps
SMS	SMS text and PDU mode

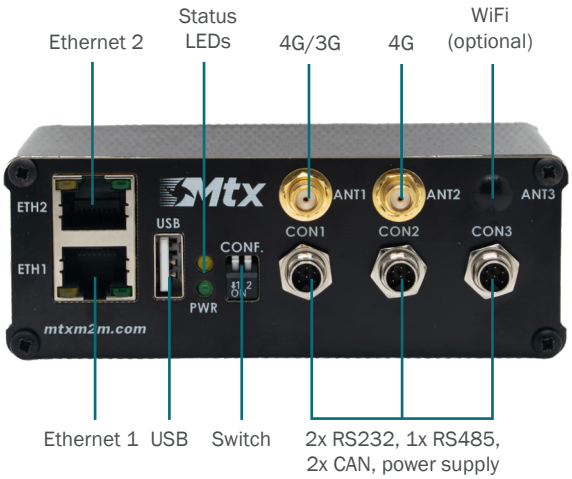
Interfaces

- 4G connectivity (optional)
- 2x Ethernet 10/100 BaseT
- USB 2.0 OTG
- 2x RS232
- 1x RS485
- 2x operating LEDs
- WiFi 802.11 b/g/n (optional)
- Rail DIN
- Rugged connectors
- SIM card interface 1.8/3V
- 2x configuration switches
- Mini PCIe
- GPS (optional)

MTX © by MATRIX ELECTRONICA S.L.U.
SUPPORT: iotsupport@mtxm2m.com | **SALES:** info@mtxm2m.com | mtxm2m.com

Connectors

- 2x RJ45: Ethernet 10/100 BaseT
- USB A-type: USB 2.0
- 3x M8 6 pins rugged connectos: 2x RS232, 1x RS485, 2x CAN, power supply
- Micro SIM
- 3x SMA F antenna connectors: 2x 4G/3G, 1x WiFi (optional)



ORDERING INFORMATION

MTX-Router-Titan II-R-4G AUS	**199802307**
MTX-Router-Titan II-R-4G-W AUS	**199802312**

MTX © by MATRIX ELECTRONICA S.L.U.
SUPPORT: iotsupport@mtxm2m.com | **SALES:** info@mtxm2m.com | mtxm2m.com

TITAN SOFTWARE FEATURES

Serial Gateways

- 3 simultaneous 2G/3G/4G/Eth/WiFi <-> RS232/485/USB gateways
- Modes: TCP server/TCP client
- SSH encryption enabled
- Incoming CSD call for metering applications (only 3G)

Modbus

- Modbus TCP/Modbus RTU gateway
- Modbus TCP/RTU to SNMP gateway (SNMP connectivity for any modbus device)
- Modbus slave RTU/TCP (send/recevice SMS, Email, SNMP traps...)
- User scripts

Datalogger

- Data from sensors (temperature, distance...)
- Serial data collected by RS232, RS485 or USB
- GPS data for tracking applications or fleet management
- Automatic data sending (HTTP/HTTPS/FTP/MQTT) with JSON format

Sensor Compatible

- Temperature sensor MTX-Temp-RS232
- Distance sensors (ultrasound) Maxbotics
- Modbus RTU/TCP sensors
- RF868 Wavenis/wireless M-Bus sensors
- Internal jamming detection sensor with alarm indicator

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

- Compatible with DynDNS/No-IP & private DNS
- GSM cell location
- Programmable autoreset (schedule, timer...)
- Multioperator SIM utilities (integrated rssi scanning tool)
- 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 (OpenVPN, serial gateways, modbus, datalogger, SMS, metering, SNMPv2 and SNMPv3...)
- Traffic control (prevents excessive data traffic consumption), TACACS+ (for HTTP, Telnet and SSH), multiuser profiles

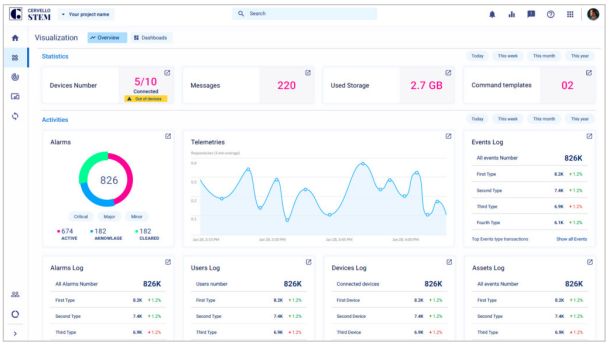
VPN

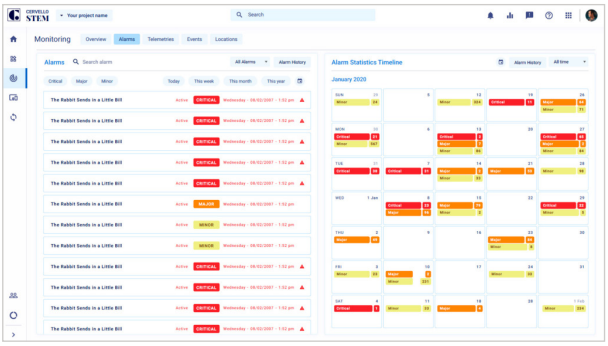
- OpenVPN with client/server mode
- Permanent or activated by SMS, AT command, modbus, SNMP, serial...

MTX © by MATRIX ELECTRONICA S.L.U.
SUPPORT: iotsupport@mtxm2m.com | **SALES:** info@mtxm2m.com | mtxm2m.com

CERVELLO STEM - IOT PLATFORM

FREE FOR ONE YEAR WITH MTX DEVICES**





General Features

- Up to unlimited devices
- Autoprovisioning
- Real time dashboards
- Remote control
- Monitoring engine
- Alarms and alerts
- Rules engine
- Remote update
- Connect engine*
- API Keys*
- Analytics*
- Multi-tenant*
- White labeling*
- Custom admin role*

Monitor

- Alarms, Events and Incidents
- Tracking*

Control

- Command template
- OTA

Devices Inventory

- Add single and single from template
- Add Bulk from template and from autoprovisioning
- Manage: Device template, Groups, Assets and Bulk actions

Connect

- Topics*
- Transformation*
- Integration keys*

Visualize

- Dashboards
- Reports

Automate

- Rules Engine
- Actions
- Triggers

Security

- 2-factor authentication
- SSL for end user application
- Custom admin roles*

*Upgrade required

**Available with compatible devices with MTX-Tunnel or MTX-Titan

MTX © by MATRIX ELECTRONICA S.L.U.
SUPPORT: iotsupport@mtxm2m.com | **SALES:** info@mtxm2m.com | mtxm2m.com