

MTX-ROUTER-TITAN II-RA

Industrial Router with dual Ethernet & LTE/4G/3G/2G for automotive

The MTX-Router-Titan II-RA is an industrial router for automotive solutions with a set of interfaces including two Ethernet ports, as well as featuring rugged connectors more resistant to vibrations and IEC 6 1076-2-101/104 compliant. Thanks to its automotive enclosure, it can be used for infinite IoT automotive applications. It includes advanced functionalities such as: DHCP server, NAT, CSD call manager, 4G to RS232/USB gateways, external sensor dataloggers, DynDNS/NoIP client, GSM cell positioning, remote firmware upgrade, etc.



MAIN FEATURES



Optional
modem



Dual
Ethernet



RS232
RS485



WiFi



Automotive
enclosure



CAN



GPS



Webserver



4G/3G/2G
serial gateway



Modbus



Datalogger



SMS control



DynDNS
and No-IP



MQTT/s



VPN
management

● Hardware features

● MTX-Titan 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: -40° to +85°C



Dimensions: 154x57x135mm

Datasheet subject to changes | 2020/05

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mtxm2m.com

















HARDWARE FEATURES






MTX-ROUTER-TITAN II-RA 4G (optional miniPCle)

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

Interfaces

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

Connectors





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

Ordering Information





MTX-Router-Titan II-RA	TBD
MTX-Router-Titan II-RA-3G	TBD
MTX-Router-Titan II-RA-4G-C1	TBD
MTX-Router-Titan II-RA-4G-C1-W	TBD
MTX-Router-Titan II-RA-4G-C3-GPS	TBD
MTX-Router-Titan II-RA-4G-C4	TBD
MTX-Router-Titan II-RA-4G-C6-GPS	TBD

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/receive 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

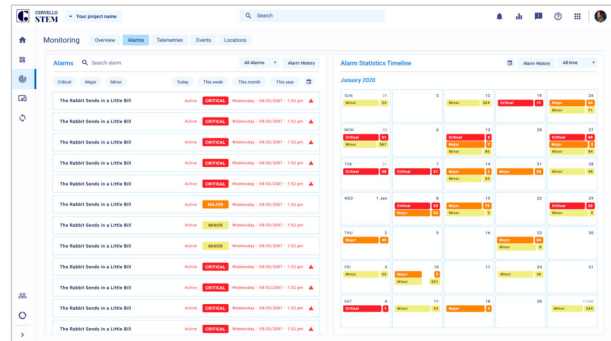
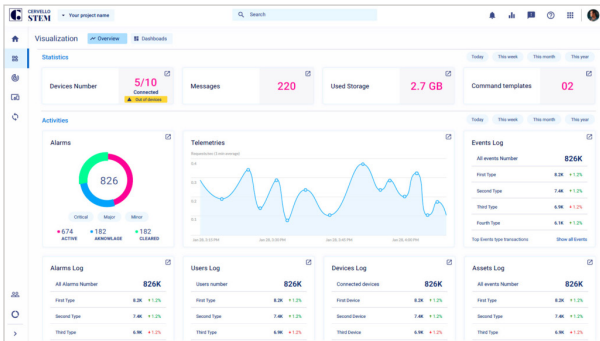
VPN

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

















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