

MTX-ROUTER-TITAN II-R

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



Optional modem



Dual Ethernet



RS232 RS485



CAN



WiFi



DIN rail



Rugged connectors



Webserver



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: -40° to +85°C



Dimensions: 113.1x40x60

Datasheet subject to changes | 2020/05

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HARDWARE FEATURES






OPTIONAL miniPCIe SPECIFICATIONS

	MTX-ROUTER-TITAN II-R 4G	MTX-ROUTER-TITAN II-R 3G
	Penta-Band LTE: Bands 1, 3, 8, 20, 28* (700*, 800, 900, 1800, 2100 MHz), Dual-Band GSM 900 & 1800 MHz	UMTS/HSPA+: five band (800, 850, 900, 1900, 2100MHz), GSM/GPRS/EDGE quad band (850, 900, 1800, 1900MHz)
	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	HSPA (3GPP release 6, 7): DL 7.2Mbps, UL 5.7Mbps; HSDPA Cat.8/HSUPA Cat.6 data rates; compressed mode (CM) according to 3GPP TS25.212 UMTS (3GPP release 4): PS data rate 384kbps DL, UL 384kbps; CS data rate 64kbps DL, UL 64kbps
	GPRS Class 12: DL max. 85.6 kbps, UL max 85.6 kbps	GPRS: GPRS class 12; mobile station class B; PBCCH support; coding schemes CS 1-4 EGPRS: multislots class 12; EDGE E2 power class for 8PSK
		CSD data transmission: up to 9.6kbps; V.110; non-transparent mode
	SMS text and PDU mode	SMS text and PDU mode

Interfaces

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







ORDERING INFORMATION





MTX-Router-Titan II-R-4G-C1	199802306
MTX-Router-Titan II-R-3G	199802309
MTX-Router-Titan II-R	199802308

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)

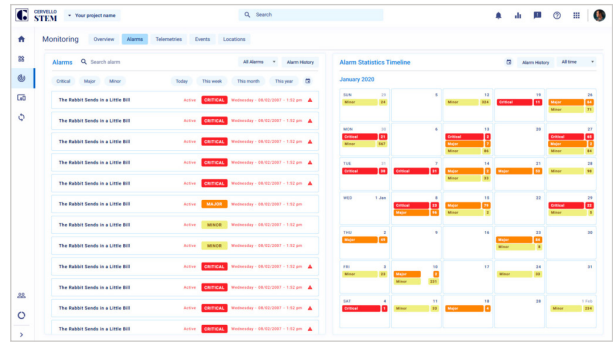
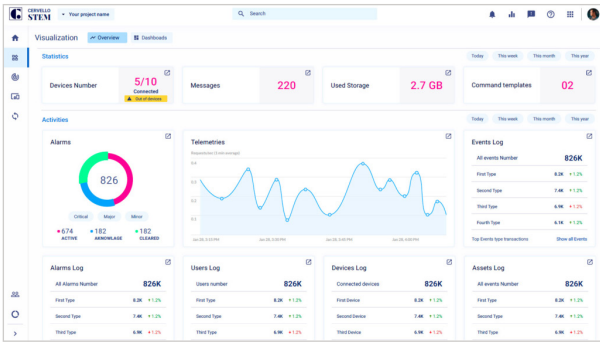
Other

-  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



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