

MTX-ROUTER-TITAN II-S

LTE/4G/3G/GSM/GPRS industrial IoT router

The MTX-Router-Titan II-S is an innovative industrial router that comprises a complete set of wireless and wired interfaces. By providing an easy integration and powerful interfaces, it avoids further hardware components. It can be used in infinite M2M and IoT applications. It has LTE connectivity with fallback 3G/2G. The MTX-Router-Titan II-S 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/3G/2G



Ethernet



RS232
RS485



WiFi



Digital
input



USB



DIN rail



Websaver



Serial
gateway



Modbus



Datalogger



SMS
control



DynDNS
No-IP



MQTT



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 +30 Vdc



Temperature range: -40° to +85°C



Dimensions: 112x51x75mm



Weight: <500gr

Datasheet subject to changes | 2020/05







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SUPPORT: iotsupport@mtx2m.com

SALES: info@mtx2m.com

mtx2m.com

HARDWARE FEATURES

	TITAN II-S 4G Cat.1	TITAN II-S 4G Cat.4*	TITAN II-S 3G
	5Band LTE: 700*, 800, 900, 1800, 2100 MHz, 2Band HSPA+: 900 & 2100 MHz, 2Band GSM: 900 & 1800 MHz	5Band LTE: 700*, 800, 900, 1800, 2100 MHz, 2Band GSM 900 & 1800 MHz; UMTS: 900, 2100 MHz	5Band UMTS (WCDMA/FDD); Bands: 800, 850, 900, 1900 & 2100 MHz. 4Band GSM; Bands: 850, 900, 1800 & 1900 MHz
	LTE Cat.1 (3GPP Release 9): DL 10.2Mbps, UL 5.2Mbps	LTE Cat.4 (3GPP Release 9): DL 150Mbps, UL 50Mbps	
	HSPA Cat.8 (3GPP Release 8): DL 7.2Mbps, UL 5.7Mbps	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	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
	GPRS Class 12: DL max. 85.6 kbps, UL max 85.6 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	EDGE Class 12 data rates: DL 237 kbps, UL 237 kbps GPRS Class 12 data rates: DL 85.6 kbps, UL 85.6 kbps
			CSD data transmission up to 9.6 kbps, V.110, non-transparent
	SMS text and PDU mode	SMS text and PDU mode	SMS text and PDU mode

Interfaces



4G/3G/2G connectivity



Ethernet 10/100 BaseT



USB 2.0 OTG



2x RS232



RS485 and RS422 (optional)



3x digital I/O (4x optional)



SIM card interface 1.8V/3V



4x operating LEDs



GPS (optional)



RF expansion (optional)



WiFi b/g/n (optional)














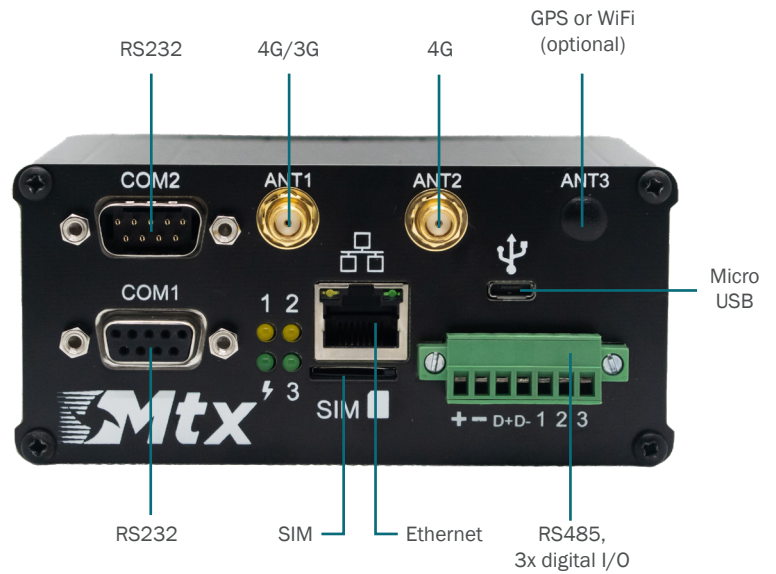
DIN rail



Micro SD

Connectors

-  RJ45: Ethernet 10/100 BaseT
-  Micro USB AB Type: USB 2.0
-  DB9 F: RS232
-  DB9 M: RS232
-  Terminal block: RS485, 3x digital I/O
-  Micro SIM: SIM card interface 1.8V/3V
-  3x SMA F antenna connectors
-  1x SMA F RP: WiFi (only for commercial temp.)
-  2x SMA F: 4G
-  1x SMA F: 3G
-  1x SMA F: GPS (optional)



ORDERING INFORMATION

STANDARD VERSIONS:

- industrial temperature -40°C-85°C
- no WiFi

MTX-Router-Titan II-S	199802205
MTX-Router-Titan II-S-3G	199802206
MTX-Router-Titan II-S-3G-GPS	199802207
MTX-Router-Titan II-S-4G-C1 (4G/2G)	199802208
MTX-Router-Titan II-S-4G-C1	199802228
MTX-Router-Titan II-S-4G-GPS C1	199802244
MTX-Router-Titan II-S-4G-C4	199802215
MTX-Router-Titan II-S-3G WC25	199802216





COMMERCIAL VERSIONS:

- regular temperature 0°C-60°C
- with WiFi





MTX-Router-Titan II-SC	199802222
MTX-Router-Titan II-SC-3G	199802223
MTX-Router-Titan II-SC-3G-GPS	199802213
MTX-Router-Titan II-SC-4G-C1	199802236
MTX-Router-Titan II-SC-4G-GPS C1	199802229
MTX-Router-Titan II-SC-4G-C4	TBD
MTX-Router-Titan II-SC WC25	199802234

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 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

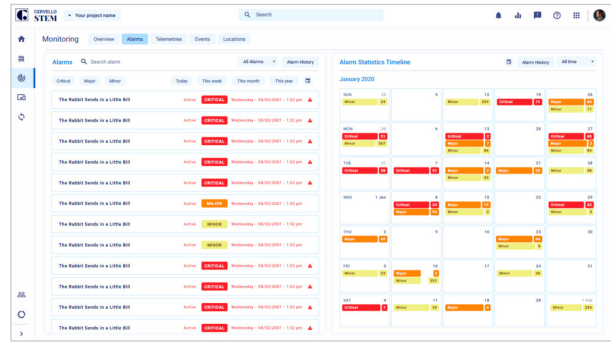
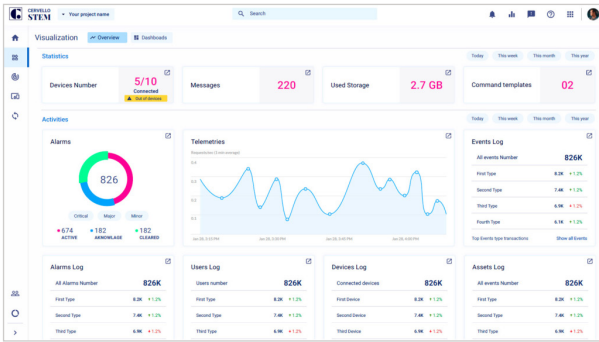
-  Compatible with DynDNS/No-IP & private DNS
 -  GSM cell location
 -  Programmable autoreset (schedule, timer...)
 -  Multioperator SIM utilities (integrated rssi scanning tool)
 -  Time synchronization (NTP) with timezones
 -  Over The Air firmware upgrade
 -  Full management with AT Command by serial, 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...

*The Titan network architecture is protected by nearly 60 hardware and software patents.

















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