



MTX-ROUTER-TITAN mini

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

The MTX-Router-Titan mini is an innovative industrial router with a complete set of interfaces. By providing an easy integration and powerful interfaces, it avoids further hardware components. Plenty of interfaces: Ethernet, WiFi, USB, RS232, 1-Wire, I2C, GPIOs and relays. A 4G (LTE CAT3) modem is attached internally. The MTX-Router-Titan mini includes: DHCP server, NAT, WiFi Access Point, CSD call manager, 3G to RS232/USB gateways, external sensor dataloggers (temperature, distance, Modbus RTUs), DynDNS/NoIP client, relay control, GSM cell positioning, remote firmware upgrade, among others.



MAIN FEATURES

 4G 3G/2G	 Ethernet	 RS232 RS485	 WiFi	 USB	 Relay	 Acellem.	
 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
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*Available with compatible devices that have MTX-Tunnel or MTX-Titan

- ⚡ DC input: 24V (7-50 Vdc)
- 🌡️ Temperature range: -40° to +85°C
- 📏 Dimensions: 78.1x66.8x37.2mm
- 📖 Weight: <500gr
















Preliminary Datasheet. Subject to changes | 2020/05
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HARDWARE FEATURES

	MTX-ROUTER-TITAN mini 4G	MTX-ROUTER-TITAN mini 3G
	<p>EUROPE: Penta Band LTE: 800/900/1800 /2100/2600 MHz; FDD-Band (20,8,3,7,1); Tri Band UMTS (WCDMA): 900/1800/2100 MHz; FDD-Band (8,3,1); Dual Band GSM/GPRS/EDGE: 900/1800 MHz</p> <p>US: Quad Band LTE: 700/850/AWS (1700/2100)/1900 MHz; FDD-Band (17,5,4,2); Tri Band UMTS (WCDMA): 850/AWS (1700/2100)/1900 MHz; FDD-Band (5,4,2); Quad Band GSM/GPRS/EDGE: 850/900/1800/1900 MHz)</p>	<p>WORLDWIDE: Five Bands UMTS (WCDMA/FDD); Bands: 800, 850, 900, 1900 & 2100 MHz. Quad-Band GSM; Bands: 850, 900, 1800 & 1900 MHz</p>
	LTE Cat. 3: DL max. 100 Mbps, UL max. 50 Mbps, 2x2 DL MIMO	
	HSPA+ DL Cat.24 / UL Cat. 6, Dual Carrier: DL max. 42 Mbps, UL max. 5.76 Mbps	HSDPA Cat.8 / HSUPA Cat.6 data rates: DL max. 7.2 Mbps, UL max. 5.76 Mbps
	EDGE Class 12 data rates: DL max. 237 kbps, UL max. 237 kbps GPRS Class 12 data rates: DL max. 85.6 kbps, UL max. 85.6 kbps	EDGE Class 12 data rates: DL max. 237 kbps, UL max. 237 kbps GPRS Class 12 data rates: DL max. 85.6 kbps, UL max. 85.6 kbps
		CSD data transmission up to 9.6 kbps, V.110, non-transparent
	SMS text messages	SMS text messages

Interfaces

 4G/3G/2G connectivity	 GPS (optional)
 Ethernet 10/100 BaseT	 1x relay
 USB 2.0	 Accelerometer
 Up to 3x RS232	 Temperature sensor
 1x RS485	 DIP switch for configuration
 SIM card interface 1.8V/3V	 1x 1Wire
 WiFi b/g/n	 1x GPIO
 RF expansion (optional)	

Connectors



Micro USB connector AB Type



1x RJ45: Ethernet 10/100 BaseT



1x DB15: RS485, 2x RS232, 1x relay, 1x CAN, 1x GPIO



Micro SIM



1x SMA F: GPS / 1x SMA F RP: WiFi







1x SMA F: 4G / 1x FME M: 3G

ORDERING INFORMATION





MTX-Router-Titan mini (only ETH+WiFi)	199802134
MTX-Router-Titan mini-3G	199802118
MTX-Router-Titan mini-3G-GPS	199802140
MTX-Router-Titan mini-4G-GPS	199802142
MTX-Router-Titan mini-4G-GPS US	199802172

TITAN SOFTWARE FEATURES





Serial Gateways

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






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













Internal Relays

-  Control & activation by: web, schedule, SMS, astronomical clock, temperature, distance...
-  Automatic activation by GPS
-  Watchdog for external devices (relay is activated if ping doesn't respond)



SMS

-  Full control by SMS with phone number authorizations
-  Relay activation by custom SMS message
-  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 (custom logos, pictures, text, menus and features)
-  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

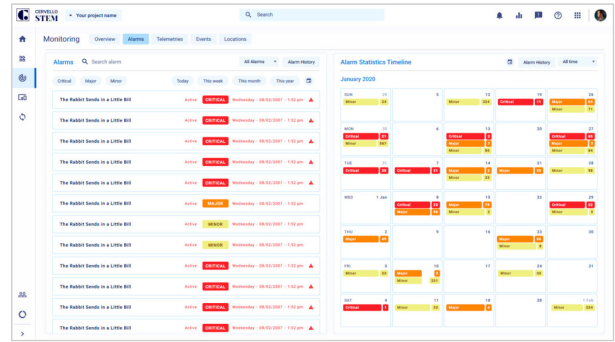
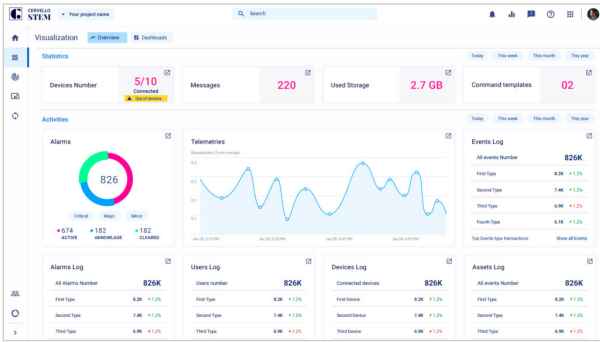
VPN

-  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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