

MTX-StarSensor

4G IoT modem with special software for sensor control, IP67, ULP and battery

The MTX-StarSensor is an innovative and powerful solution for the most demanding monitoring applications.

The IP67 casing allows it to be used in any environment regardless of dust, humidity or water. Thanks to the special MTX-Tunnel firmware, with enhanced ULP and battery management features, the device can handle analogue sensors for years, without the need for external power. The modem has datalogging capabilities, and data can be locally collected or sent remotely via 4G.



MAIN FEATURES

 4G/3G/2G communications	 USB	 RS232/485	 4x GPIOs	 4-20mA /0-10Vdc	 Sensor power supply	 Battery	 Ultra Low Power
 IP67	 4G/3G/2G serial gateway	 GPIO management	 Sensor management	 DynDNS and No-IP	 MQTT/s	 Modbus & Datalogger	 SMS control

● 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: 7.2 to 30Vdc (36Vdc optional)
- 🌡️ Temperature range: -30° to +85°C
- 📏 Dimensions: 261x169x91mm
- 📦 Weight: 3.6kg

Datasheet subject to changes | 2020/07
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SUPPORT: iotsupport@mtx2m.com
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mtx2m.com

HARDWARE FEATURES

MTX-StarSensor 4G

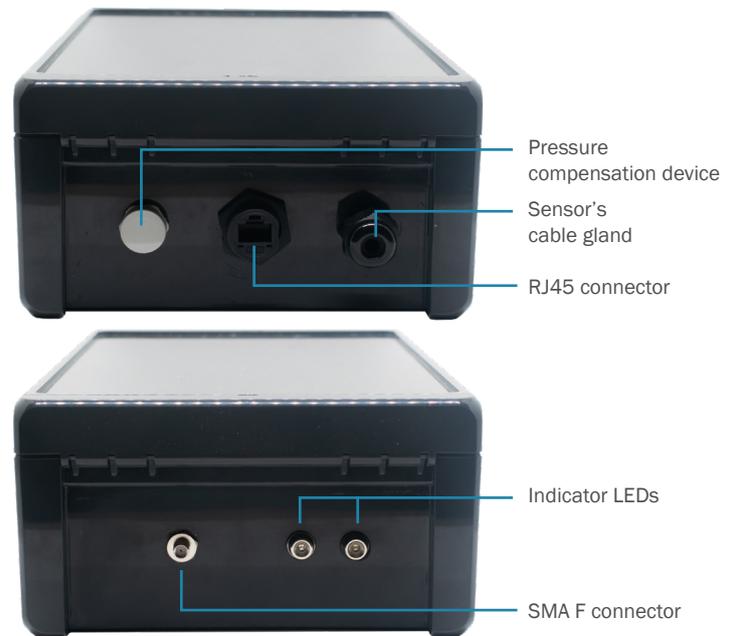
	LTE 5 Bands (700, 800, 900, 1800, 2100MHz), GSM/GPRS/EDGE: 2 Bands (900, 1800MHz)
	LTE Cat.1: DL 10.2Mbps, UL 5.2Mbps
	HSPA (3GPP release 6,7): DL 7.2Mbps, UL 5.7Mbps; HSDPA Cat.8/HSUPA Cat.6 UMTS (3GPP release 4): PS data rate 384 kbps DL, UL 384kbps
	GPRS (EU only): DL 85.6kbps, UL 85.6kbps
	SMS: text and PDU mode support

Interfaces

-  4G/3G/2G connectivity
-  USB (internal)
-  RS232
-  RS485
-  4x GPIOs (internal)
-  Tamper input
-  4-20mA/0-10Vdc
-  Dual SIM card interface 1.8V and 3V
-  Operating status LEDs
-  Real Time Clock with alarm functionality
-  Battery
-  Ultra Low Power

Processor

	4G
Flash	31MB
RAM	18MB
CPU	ARM11



Connectors

-  1x SMA F: 4G
-  Mini USB (internal)
-  1x RJ45: RS232, RS485 (multiplexed)
-  4x2 terminal block: power supply, RS485, tamper (internal)
-  4-20mA/0-10Vdc
-  1x power output: 12, 18, 25, 32 Vdc software configurable

MTX-TUNNEL SOFTWARE FEATURES

Connectivity



4G/3G/2G serial gateways: TCP client, TCP server, UDP client/server, up to 2 simultaneous tunnel



IP connectivity mode: permanent 100% time, under request (SMS, missed call), change on a digital input, analog input out of level, serial data on RS232/RS485 port, scheduled date/hour/time

TCP Services



Web server, Telnet, SNMP, Tacacs+, NTP



Datalogger: MQTT, MQTTs, HTTP, HTTPs, FTP



Shows the status of digital and analog inputs



Change digital output level



Execute AT commands remotely: Telnet, MQTT/MQTTs, SMS, HTTP

Security



Authorized phone numbers



Firewall IP, SSL/TLS connections, encrypted config



Secure OTAP (remote FIU upgrade)



Watchdog hardware

Alarms and Control



Send SMS/MQTT alarm when the level of digital or analog input change, local configuration option



SMS can be sent to up to 10 remote users



Execute remote AT commands



Change the status of digital outputs



Customizable SMS commands

Solutions for Dynamic IP



IP session using a SMS or missed call



DynDNS and NoIP



Private DNS

Metering, Modbus, Sensors...



Local access to data option, through serial interface.



Master for modbus RTU devices, Modbus TCP slave, Modbus TCP to RTU gateway



Access to serial devices using 2G/3G/4G and GSM

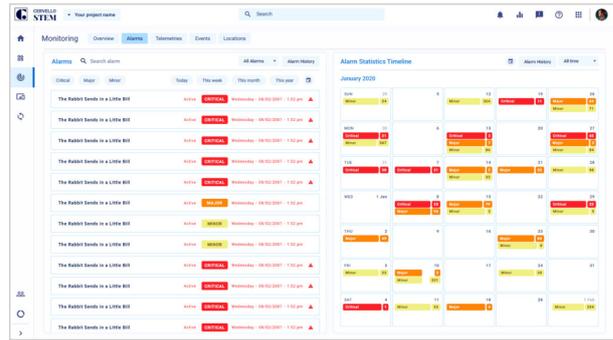
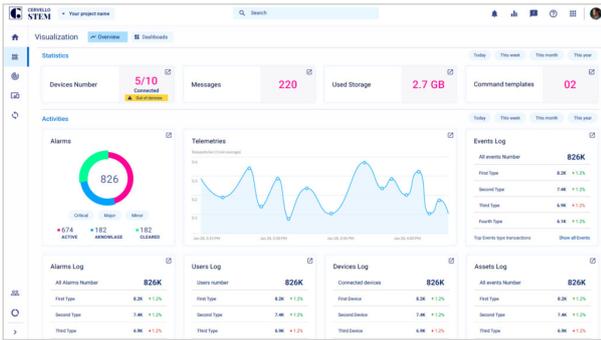


Astronomical clock



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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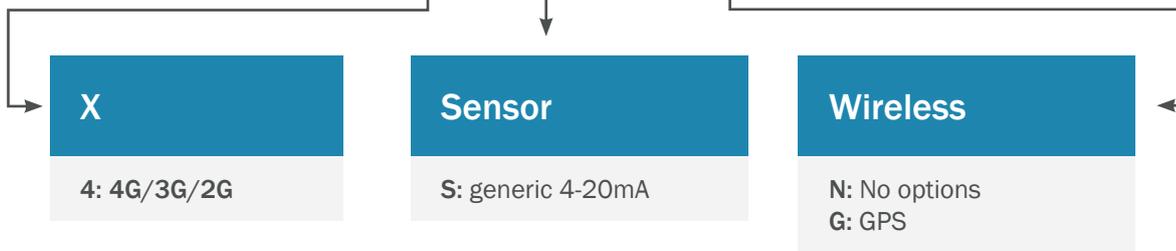
ORDERING INFORMATION

Part Numbers

MTX-StarSensor [4-S-N]

TBD

MTX - StarSensor [X - Sensor - Wireless]



DIMENSIONS

