



Join our
IoT WORLD
#WeAreIoTConnectivity

MTX-StarSensor

4G IoT modem for sensor control with IP67, Ultra Low Power and primary batteries with 10 years autonomy

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

The IP67 enclosure allows it to be used in any environment regardless of dust, humidity or water. Thanks to MTX-Tunnel firmware with improved Ultra Low Power and power management features, the device can handle up to 2 analog sensors for years, without the need for external power. The modem has the ability to record data, which can be stored locally or sent remotely via 4G.



MAIN FEATURES



4G/3G/2G communications



USB



RS232/485



4x GPIOs



Up to 2x 4-20mA / 0-10Vdc



Up to 2x sensor power supply



Primary batteries



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













*Available with compatible devices that have MTX-Tunnel or MTX-Titan

HARDWARE FEATURES

MTX-StarSensor 4G

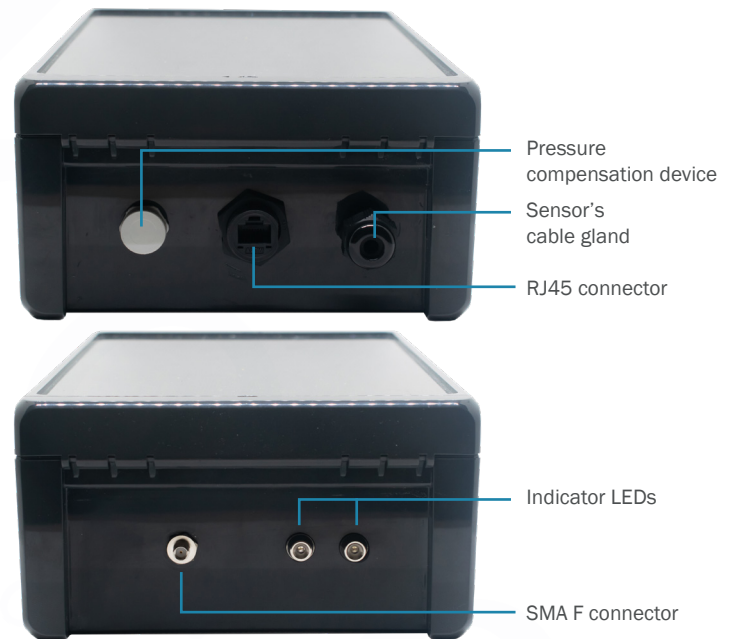
	LTE 5 Bands (700, 800, 900, 1800, 2100MHz), GSM/GPRS/EDGE: 2 Bands (900, 1800MHz)
	LTE Cat.1: DL 10.2Mbps, UL 5.2Mbps
	HSPA (3GPP release 6,7): DL 7.2Mbps, UL 5.7Mbps; HSDPA Cat.8/HSUPA Cat.6 UMTS (3GPP release 4): PS data rate 384 kbps DL, UL 384kbps
	GPRS (EU only): DL 85.6kbps, UL 85.6kbps
	SMS: text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

Interfaces







-  4G/3G/2G connectivity
-  USB (internal)
-  RS232
-  RS485
-  4x GPIOs (internal)
-  Tamper input
-  Up to 2x 4-20mA/0-10Vdc
-  Dual SIM card interface 1.8V and 3V
-  Operating status LEDs
-  Real Time Clock with alarm functionality
-  Primary batteries
-  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)
-  Up to 2x 4-20mA/0-10Vdc
-  Up to 2x power outputs: 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

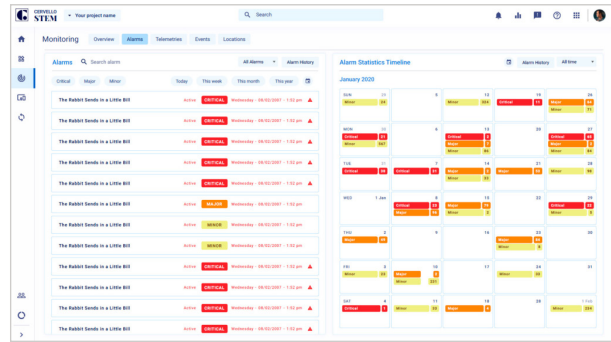
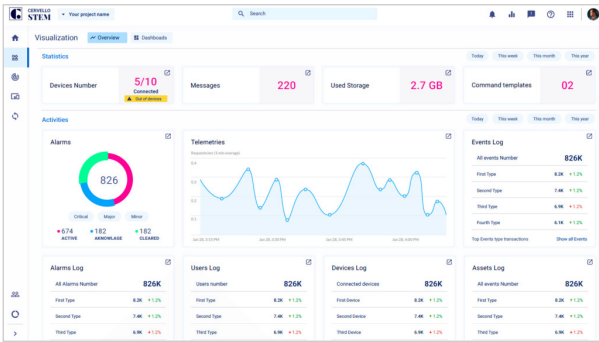
Metering, Modbus, Sensors...

-  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



ORDERING INFORMATION

MTX-StarSensor [4-G]

TBD

MTX-StarSensor [4-R]

TBD

MTX-StarSensor [4-P]

TBD

MTX - StarSensor [X - Sensor]

X

4: 4G/3G/2G

Sensor

G: generic 4-20mA

P: submersible pressure

R: radar

DIMENSIONS

