

MTX-T2

Basic 4G/3G 2xRS232 programmable IoT modem

MTX-T2 is an innovative and powerful all-in-one solution. Thanks to its set of interfaces (RS232, USB, digital I/O...) and the embedded MTX-Tunnel firmware that provides the MTX-T2 with a basic router-like functionality, this modem can be used in most of the IoT applications with no need for further hardware, shortening the time-to-market and providing a very cost-effective solution. MTX-T2 can be also programmed in Java2ME, for those customers who want to embed their own firmware on it.



MAIN FEATURES



4G/3G/2G



USB 2.0



2x RS232



Digital input



Legacy communic.



4G/3G/2G serial gateway



GPIO management



Relays 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

- ⚡ DC input: 6.5 to 40 Vdc
- 🌡️ Temperature range: -30° to +85°C
- 📏 Dimensions: 78.1x66.8x37.2mm
- ⚖️ Weight: <190gr

Datasheet subject to changes | 2020/04
MTX © by MATRIX ELECTRONICA S.L.U.
SUPPORT: iotsupport@mtxm2m.com
SALES: info@mtxm2m.com
mtxm2m.com

HARDWARE FEATURES

	MTX-T2 4G	MTX-T2 3G	MTX-T2 2G
	LTE 5 Bands (700, 800, 900, 1800, 2100MHz), GSM/GPRS/EDGE: 2 Bands (900, 1800MHz)	HSPA+: 5 Bands (800, 850, 900, 1900, 2100MHz), GSM/GPRS/EDGE: 4 Bands (850, 900, 1800, 1900MHz)	GSM 4 Bands (850, 900, 1800, 1900MHz), release 6
	LTE Cat.1: 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 7): DL 7.2Mbps, UL 5.7Mbps; HSDPA Cat.8/HSUPA Cat.6	
	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	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	CSD data transmission up to 9.6 kbps, V.110, non-transparent
	SMS: text and PDU mode support, point-to-point MO and MT, cell broadcast	SMS: text and PDU mode support, point-to-point MO and MT, cell broadcast	SMS: text and PDU mode support, point-to-point MO and MT, cell broadcast

Interfaces



4G/3G/2G connectivity



USB 2.0



SIM card interface 1.8V and 3V



2x RS232



1x digital input



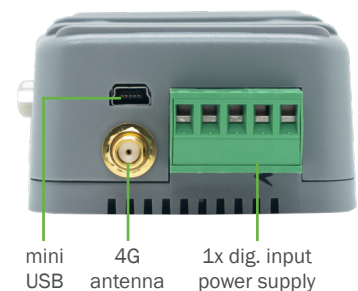
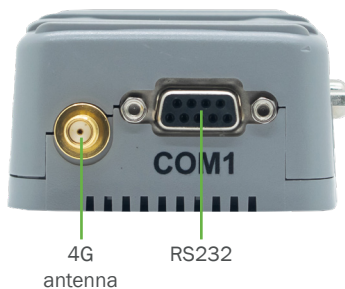
Power supply








Operating status LEDs



Real Time Clock with alarm functionality



Connectors

-  2x SMA F antenna connector: 4G
-  1x SMA F antenna connector: 3G/2G
-  Mini USB 2.0
-  2x DB9 female connector: RS232
-  5-way plug-in: 1x digital input, power supply

Processor

	4G	3G	2G
Flash	31MB	10MB	10MB
RAM	18MB	10MB	10MB
CPU	ARM11	ARM11	ARM11

ORDERING INFORMATION

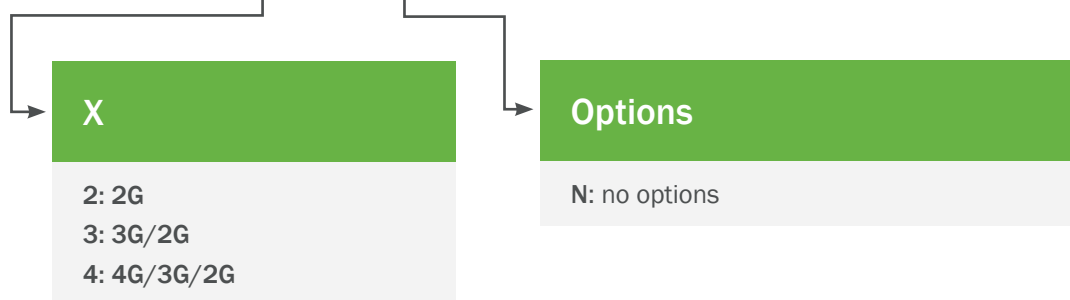
MTX-T2 [2 N] **199801455**

MTX-T2 [3 N] **199801406**

MTX-T2 [4 N]

199801438

MTX - T2 [X - Options]



● MTX-TUNNEL SOFTWARE FEATURES ●

Connectivity



4G/3G/2G serial gateways: TCP client, TCP server, UDP client/server, accept incoming CSD calls, 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 and relays



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

*MTX-Tunnel features depending on modem interfaces

Alarms and Control



Send SMS/MQTT alarm when the level of digital or analog input change



SMS can be sent to up 10 remote users



Execute remote AT commands



Change the status of digital outputs & relays



Customizable SMS commands

Solutions for Dynamic IP



IP session using a SMS or missed call



DynDNS and NoIP



Private DNS

Metering, Modbus, Sensors...



868 MHz remote monitoring sensors (Wavenis)



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



Relays control



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

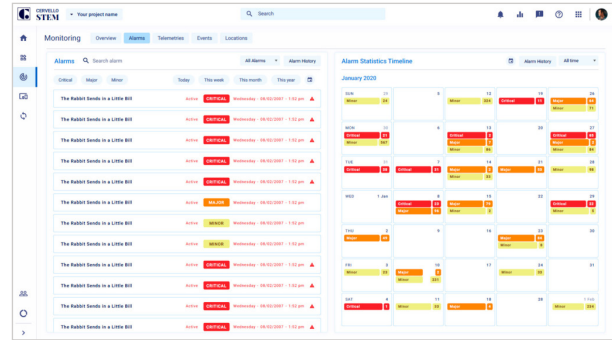
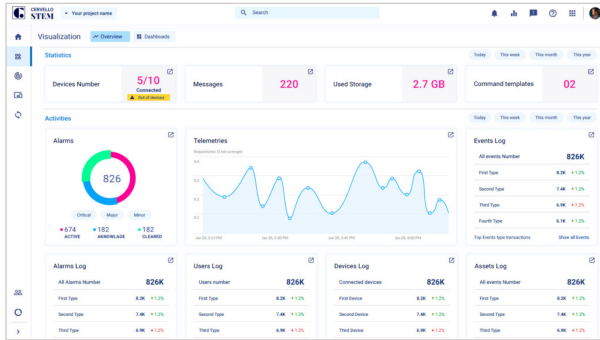


Astronomical clock

















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