MTX-T
Basic 4G/3G Programmable IoT modem

MTX-T is an innovative and powerful all-in-one solution for the most demanding M2M and IoT applications, enabling 2G/3G/4G high speed data transmission, CSD and SMS. MTX-T are Java J2ME programmable and have many interfaces (RS232, RS485, mini USB, 1x digital input) avoiding need for further hardware, shortening time to market and reducing costs. It is also compatible with MTX-Tunnel, a firmware that can be executed in our MTX modems to use them as powerful gateways or routers.

MAIN FEATURES

4G 3G/2G	USB 2.0	RS232	RS485	IN OUT	CSD SMS
4G/3G/2G	USB 2.0	RS232	RS485	Digital input	Legacy communic.

4G 3G/2G	IN OUT	Relays	Dyn DNS	>_	Modbus	SMS
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

CE FC PTCRB RoHS Compliant ISO 9001

HARDWARE FEATURES

	MTX-T 4G	MTX-T 3G	MTX-T 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
4G	LTE Cat.1: DL 10.2Mbps, UL 5.2Mbps		
3G	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	
2G	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	CSD data transmission up to 9.6 kbps, V.110, non-transparent	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	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
- SIM card interface 1.8V and 3V
- RS232
- RS485
- 1x digital input
- Power supply
- GPS module (optional)
- Operating status LEDs

Connectors

- 2x SMA F antenna connector: 4G
- 1x SMA F antenna connector: 3G/2G
- 1x SMA F antenna connector: GPS
- Mini USB B
- DB9 female connector: RS232
- 5-way plug-in: RS485, power supply and digital input

Processor

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

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

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

ORDERING INFORMATION

MTX-T [2 N]	199801421	MTX-T [4-N] (4G/2G)	199801424
MTX-T [3 N]	199801422	MTX-T [4 N]	199801445

MTX - T [X - Options]

X	Options
2: 2G 3: 3G/2G 4: 4G/3G/2G	N: no options GPS: GPS
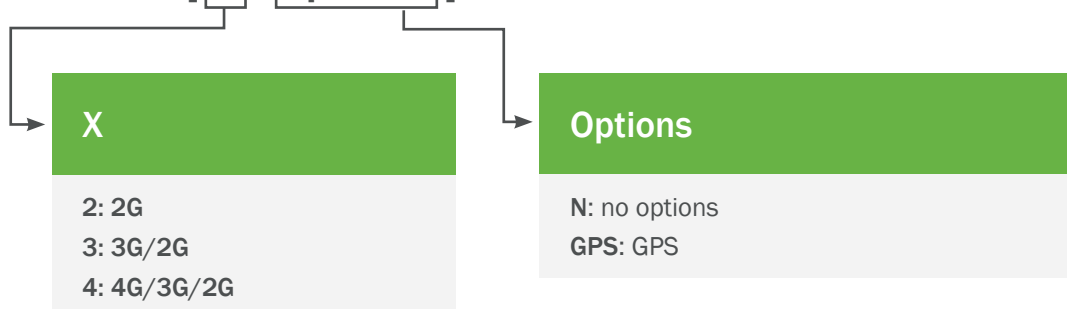
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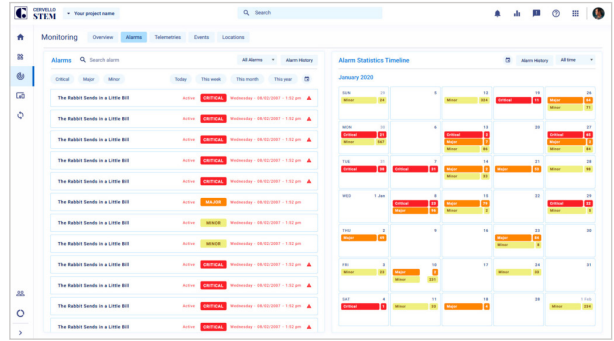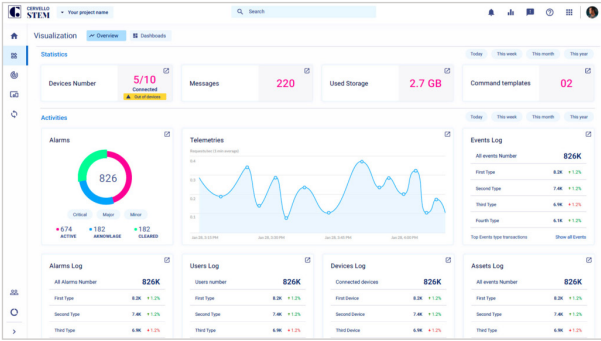
General Features

- 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