MTX-IoT-XS

Basic 4G/3G/2G programmable IoT modem

MTX-IoT-XS is an innovative and powerful all-in-one solution. Thanks to its set of interfaces (RS232, RS485, USB, digital I/O...) and the embedded MTX-Tunnel firmware that provides the MTX-IoT-XS 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-IoT-XS can be also programmed in JavaJ2ME, for those customers who want to embed their own firmware on it.

MAIN FEATURES

4G 3G/2G	USB 2.0	Up to 2x RS232 (see options)	RS485 (see options)	IN OUT — 1x digital input	IN OUT — 1x digital output

4G 3G/2G serial gateway	IN OUT — GPIO management	Datalogger	Dyn DNS — DynDNS and No-IP	>_ MQTT/s	Modbus TCP/RTU	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: 7 to 36VDC
- Temperature range: -30° to +85°C
- Dimensions: 78x31x84mm
- Weight: 131gr

CE FC PTCRB RoHS compliant ISO 9001

HARDWARE FEATURES

MTX-IoT-XS 4G

📶	LTE 5 Bands (700, 800, 900, 1800, 2100MHz), GSM/GPRS/EDGE: 2 Bands (900, 1800MHz)
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
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
CSD	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

Interfaces

- **4G 3G/2G** — 4G/3G/2G connectivity
- SIM card interface 1.8V and 3V
- USB 2.0
- Up to 2x RS232 (see options)
- RS485 (see options)
- **IN OUT** — 1x digital input
- **IN OUT** — 1x digital output
- Power supply
- Operating status LEDs

RS232, 1x input, 1x output — COM 1

RS232 or RS485 — COM 2

SIM

Power supply

Mini USB B

Antenna 4G — A1

Status LEDs

DIN rail

Wall mounting

www.mtxiot.com
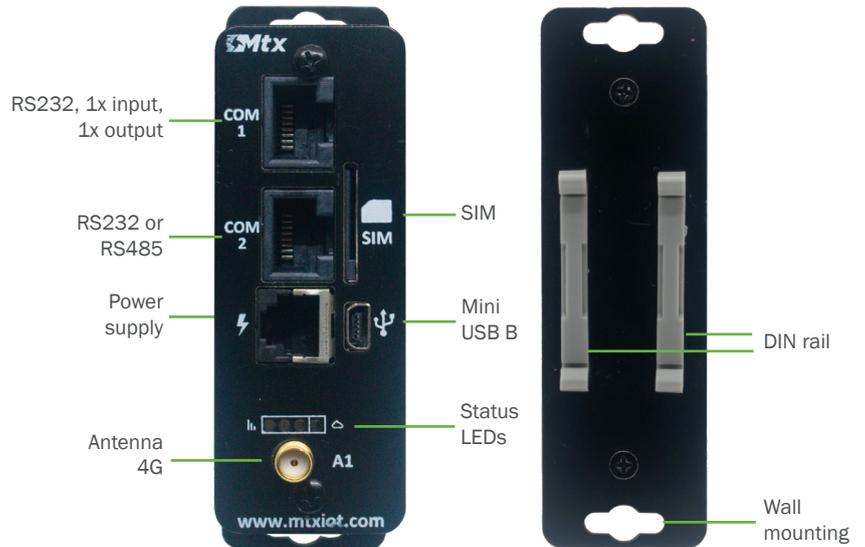
Connectors

- 1x SMA F antenna connector: 4G
- Mini USB B
- RJ45 (COM1): RS232, 1x input, 1x output
- RJ45 (COM2): RS232 or RS485 (check options)
- RJ11: power supply 7-36V

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

*MTX-Tunnel features depending on modem interfaces

ORDERING INFORMATION

MTX-IoT-XS [4-N]	199801473

MTX-IoT-XS [4-D]	199801475

MTX - IoT-XS [X - Options]

X
2: 2G
3: 3G/2G
4: 4G/3G/2G

Options
N: (standard) 1xRS232, 1xRS485
D: 2x RS232
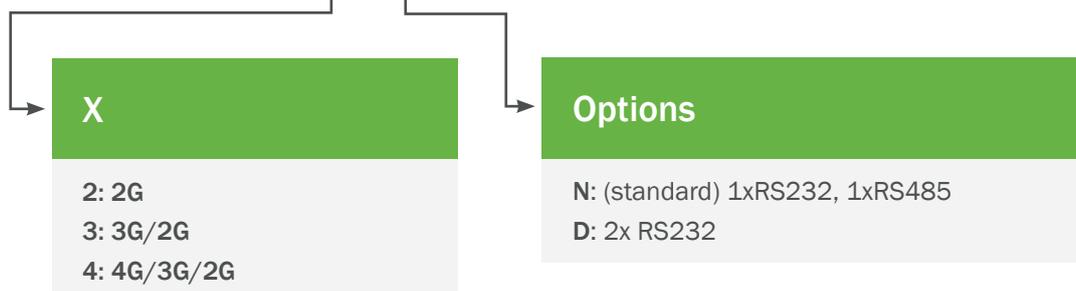
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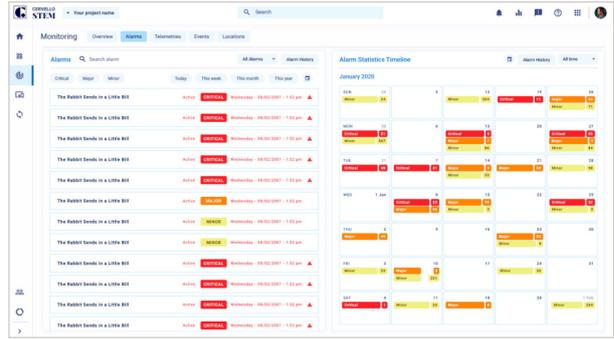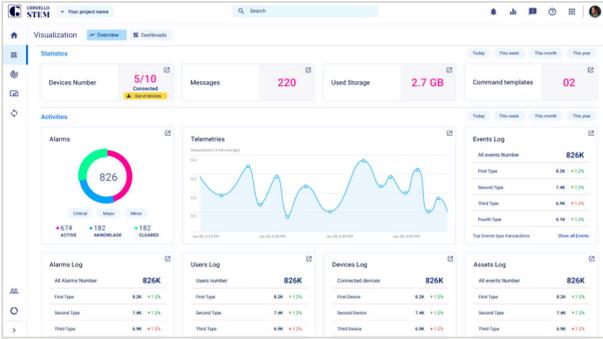
General Features

- 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