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#WeAreIoTConnectivity

# 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)



1x digital  
input



1x digital  
output



4G/3G/2G  
serial gateway



GPIO  
management



Datalogger



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



Singel 3 | B-2550 Kontich | Belgium | Tel. +32 (0)3 458 30 33 | info@alcom.be | www.alcom.be

Rivium 1e straat 52 | 2909 LE Capelle aan den IJssel | The Netherlands | Tel. +31 (0)10 288 25 00 | info@alcom.nl | www.alcom.nl

# HARDWARE FEATURES

## MTX-IoT-XS 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: DL 7.2Mbps, UL 5.7Mbps UMTS PS: DL 384Mbps, UL 384 Mbps, CS: DL 64Mbps, UL 64Mbps
	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
	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
-  USB 2.0
-  Up to 2x RS232 (see options)
-  RS485 (see options)
-  1x digital input
-  1x digital output
-  Power supply
-  Operating status LEDs



### 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

\*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 to 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

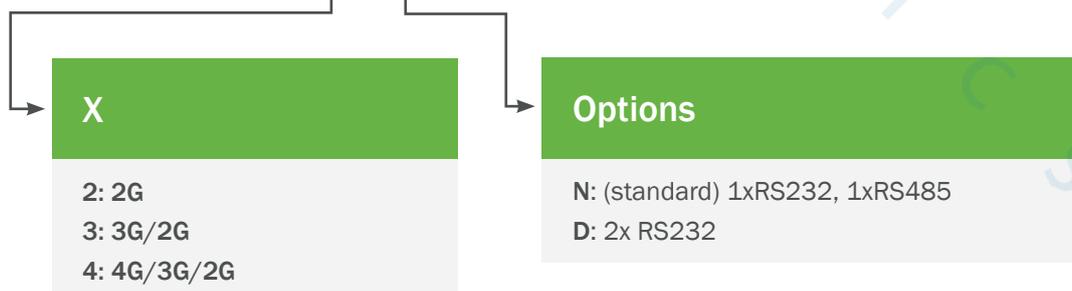
MTX-IoT-XS [4-N]

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MTX-IoT-XS [4-D]

**199801475**

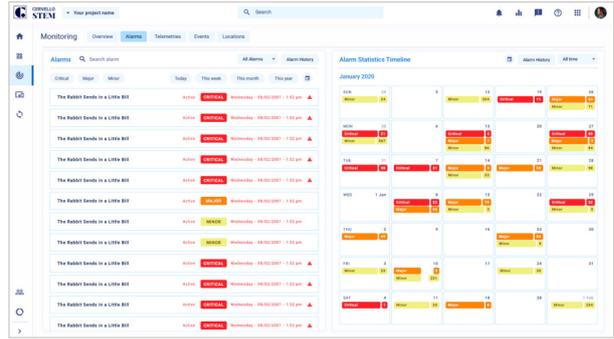
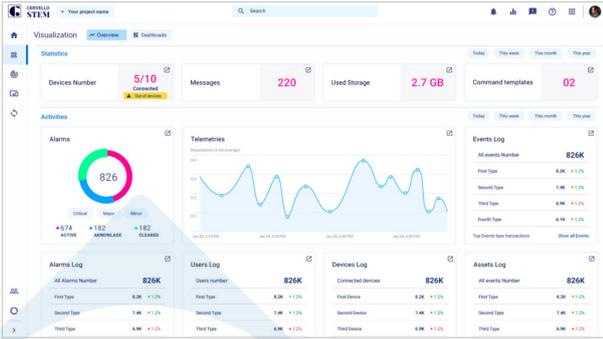
## MTX - IoT-XS [ X - Options ]





# 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