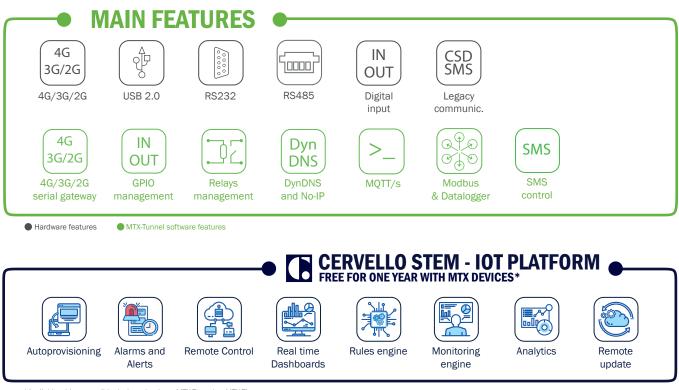




# MTX-T Basic 4G/3G Programmable IoT modem

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





\*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

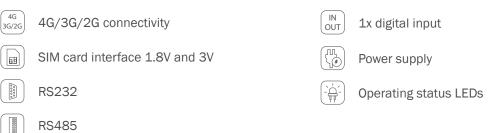
Weight: <190gr</p>

Datasheet dubject to changes | 2020/05 MTX © by MATRIX ELECTRONICA S.L.U. SUPPORT: iotsupport@mtxm2m.com SALES: info@mtxm2m.com mtxm2m.com

## **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
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









#### **Connectors**

#### Processor

$\begin{pmatrix} \mu \\ A \end{pmatrix}$ 2x SMA F antenna connector: 4G		4G	3G	2G
1x SMA F antenna connector: 3G/2G	Flash	31MB	10MB	10MB
စြာ Mini USB B	RAM	18MB	10MB	10MB
DB9 female connector: RS232	CPU	ARM11	ARM11	ARM11
5-way plug-in: RS485, power supply and digital input				



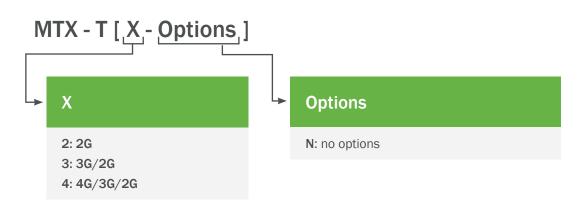
## **MTX-TUNNEL SOFTWARE FEATURES**

**Alarms and Control** 

## Connectivity

4G 3G/2G	4G/3G/2G serial gateways: TCP client, TCP server, UDP client/server, accept incoming		Send SMS/MQTT alarm when the level of digital or analog input change
	CSD calls, up to 2 simultaneous tunnel	SMS	SMS can be sent to up 10 remote users
	IP connectivity mode: permanent 100% time, under request (SMS, missed call), change on a digital input, analog input out	>_	Execute remote AT commands
	of level, serial data on RS232/RS485 port, scheduled date/hour/time		Change the status of digital outputs & relays
TCP S	Services	SMS	Customizable SMS commands
	Web server, Telnet, SNMP, Tacacs+, NTP	Solut	tions for Dynamic IP
	Datalogger: MQTT, MQTTs, HTTP, HTTPs, FTP		IP session using a SMS or missed call
	Shows the status of digital and analog inputs	Dyn DNS	DynDNS and NoIP
	Change digital output level and relays		Private DNS
>_	Execute AT commands remotely: Telnet, MQTT/MQTTS, SMS, HTTP	Mete	ring, Modbus, Sensors
Secu	rity	$\bigcirc$	868 MHz remote monitoring sensors (Wavenis)
	Authorized phone numbers		Master for modbus RTU devices, Modbus TCP slave, Modbus TCP to RTU gateway
	Firewall IP, SSL/TLS connections, encrypted config		Relays control
	Secure OTAP (remote FIU upgrade)		Access to serial devices using 2G/3G/4G and GSM
Â	Watchdog hardware		Astronomical clock
*MTX-Tur	nnel features depending on modem interfaces		
	ORDERING INI	FOR	

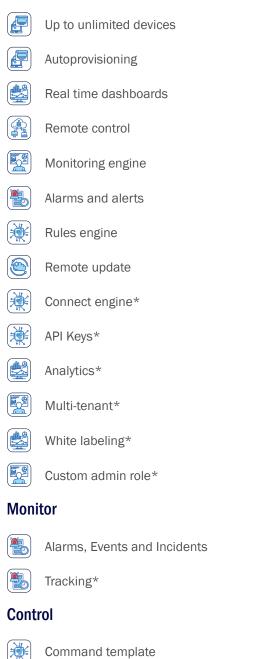
MTX-T [2 N]	199801421	MTX-T [4-N] (4G/2G)	199801424
MTX-T [3 N]	199801422	MTX-T [4 N]	199801445





6 8	TEM * Your project name		Q, 34	arch			A di 10	⊚ ≡ 🧶	C 31	* Your project name	
h	Visualization - Overview II Deal	hboads							*	Monitoring Overview Alarma	Telemetries Event
8	Statistics						Today This week This	month This year	28	Alarms Q. Search alarm	
e G	Devices Number 5/1	ted	Messages	220	Used Storage	2.7 GB	Command templates	02	60	Critical Major Minor The Rabbit Sends is a Utilia Bit	Today Thi
2	Activities						Today This week This	month This year	0	The Rabbit Sends in a Little Bill	A15-4
	Alarms	2	Telemetries			Ø	Events Log	2		The Rabbit Sends in a Little Bill	A.514
			Requests/sec () min average) 0.4		~		All events Number	826K		The Rabbit Sends in a Little Bill	A.5.4
	826		· \	Δ.			First Type	4.2K +1.2N		The Rabbit Sends in a Little Bill	Active E
				$\wedge$			Second Type Third Type	4.9K +1.25		The Rubbit Sends in a Little Bill	A2514
	Critical Major Minor • 674 • 182 • 182		81	V		Q 1	Fourth Type	6.1K +1.25		The Rabbit Sends in a Little Bill	Active 🚺
	+0/4 +182 +182 ACTIVE AKNOWLAGE CLEA	AED	36-38,315 PM	Jun 28, 5-31 PM	3x33,345.94 A	n 28, 632 PH	Top Events type transactions	Show all Events		The Robbit Sends in a Little Bill	Autor 📑
	Alarms Log	ø	Users Log	Ø	Devices Log	8	Assets Log	0		The Rabbit Sends in a Little Bill	Autor C
	All Alarma Number 82	:6K	Users number	826K	Connected devices	826K	All events Number	826K		The Rabbit Sends in a Little Bill	Active C
	FeatType 8.2K *		First Type	82K +12N	First Device	828 +125	First Type	826 +125	22	The Rubbit Sends in a Little Bill	Active C
)	Second Type 7.4K *	1.2%	Second Type	2.46 +1.25	Second Device	7.4K +1.2%	Second Type	7.4K +1.2N	0	The Rabbit Sends in a Little Bill	Active

### **General Features**



STEM * Your project name		Q, Search						a da por	⊘ Ⅲ
Monitoring Overview Alarma	Telemetries Events L	ocations							
Alarms Q Search alarm		All Alarma *	Alarm History	Alarm Stat	istics Timelin	•		Alam Heto	ry All time
Ottical Major Minor	Today This week	This month Th	his year 🖸	January 20	80				
The Rabbit Sends in a Little Bill	Active CRITICAL	Wednesday - 08,92/200	a - 1.52 pm	SUN Minor	29	1.	12 204	19 (19)	Migar Bi Minar 71
The Rubbit Sends in a Little Bill	ALEVE CRITICAL	Wednesday - 08,02/200	a - 1.02 pm	NON				29	
The Rabbit Sends is a Little Bill	Active CRITICAL	Wednesday - 08.02/200	n - 1.82 pm 🔺	Critical Minor	847	5	ritisad 8 Agar 9		Critical El Major El
The Rabbit Sends is a Little Bill	Active CRITICAL	Wednesday - 08,02/200	0 - 1.52 pm 🔺	THE			14	21	2 Mar H
The Rabbit Sends in a Little Bill	Active CRITICAL	Wednesday - 08.92/200	0-132pm 🔺				loar 33		
The Rubbit Sends is a Little Bill	Active MAJOR	Wednesday - 08.92/200	0 - 1.92 pm	wep	1 Jan		13 14 14 14 14 14 15	22	Critical II
The Rabbit Sends in a Little Bill	Active MINOR	Wednesday - 08.92/200	17 - 1.02 pm	749					
The Rabbit Sends in a Little Bit	Active MINOR	Wednesday - 08,02/200	17 - 1.82 pm	Water			5	nger 14 Kinar 1	
The Rabbit Sends is a Little Bill	ALEVA CRITICAL	Wednesday - 08.02/200	1 - 1.52 pm 🔺	TRI Minor		- 1		24 Winat 28	,
The Rabbit Sends is a Little Bill	Active CRITICAL	Wednesday - 08.02/200	0 - 1.52 pm 🔺		Mas	111			
The Rabbit Sends in a Little Bill	Active CRITICAL	Weberstey - 08,02,200	a - 1.92 pr	SA7 Critical	<b>.</b>		10 10	28	Maar 23
The Rabbit Sends in a Little Bill	Artist COTICAL	Wednesday - 08.02/200	-142en 🔺						

## **Devices Inventory**

CERVELLO STEM - IOT PLATFORM

	Add single and single from template
	Add Bulk from template and from autoprovisioning
	Manage: Device template, Groups, Assets and Bulk actions
Conn	ect
	Topics*
×	Transformation*
	Integration keys*
Visua	lize
	Dashboards
	Reports
Autor	nate
×	Rules Engine
×	Actions
	Triggers
Secu	rity
	2-factor authentication
×	SSL for end user application
	Custom admin roles*

\*Upgrade required

\*\*Available with compatible devices with MTX-Tunnel or MTX-Titan



OTA