



MTX-Router-Q

Software User Manual

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Important Information

This technical description contains important information for the commissioning and use of MTX-Router-Titan devices.

Please read it carefully before you start working with Titan router devices. The warranty will be void in the event that damage occurs due to non-compliance with these instructions. We cannot accept liability for related losses.

Revision

VERSION: 4.01.4.17, release: April 2020

1. Introduction

The MTX-Router-Q belongs to the Titan family of 2G/3G/4G routers with advanced Gateway capabilities.

To better understand what you can do with these routers, we strongly recommend you read chapter 2 of this manual, the FAQ section. After reading all this information, you will have a much better idea of what you will actually be able to do. After reading the FAQ, it is recommended to have a general look at the examples in the Appendix. These examples will give you a much clearer picture of the possibilities offered by these routers. Finally, Appendix A contains the technical features and connection diagrams of the devices.

We provide free, fast and efficient support to all users of MTX modems and routers when required. If you still have questions after reading this manual, do not hesitate to let us know using the following email address: iotsupport@mtxm2m.com. Similarly, if you need a feature that is not included in our routers, or if you need customisation, please let us know and we will look into it.

2. FAQ: basic concepts

We advise you to read the following FAQ. It explains in detail everything you need to know about the main features of the MTX-Router-Q devices in the Titan router family.



What do MTX-Router-Q devices physically look like?

MTX-Router-Q with DIN rail



MTX-Router-Q

What can I do with the MTX-Router-Q?

Essentially, you can do exactly the same things as with a standard 2G/3G/4G router, but with the addition of a number of advanced gateway features. For example, they can provide Internet connectivity to devices that are connected to their Ethernet port, as well as perform NAT to connect via the Internet to devices connected to the Ethernet port.

I want a 2G/3G/4G router, but I need to be able to send AT commands directly to the router, in order to send SMS messages, check coverage, etc. Does the MTX-Router-Q router allow this?

Yes, in several ways. You can send AT commands from a "Telnet type" connection via SSH or even by SMS.

Web configuration environment?

Yes. The devices can be entirely configured via web configuration, i.e. through the equipment's internal webserver.

Is it possible to read/upload a complete configuration to MTX-Router-Q routers? This facilitates the production process when there are a lot of devices to configure.

It can indeed do full configuration backups/restores.

You mention time. Do MTX-Router-Q routers have a clock?

Yes, synchronised via NTP over the Internet.

Can MTX devices be configured via SMS?

Yes, you can send AT commands by SMS, to reboot the device, change configuration, find out IP, check coverage, etc.

I would like to customise the web configuration environment with my company logos and images. Is there a way to customise the equipment to make it look like mine?

Yes. Any user is free to customise the configuration web environment with their logos, footers and page titles, etc. You can even choose which menus your end customer can see/touch.

Finally, are there any additional features of the MTX-Router-Q router that differentiate it from conventional routers?

Yes, it has 1 or 2 backup batteries (chosen by the customer) depending on the autonomy the router needs in case the equipment loses power.

3. Step-by-Step Configuration

As mentioned in previous sections, the Titan family of routers is configured through a web environment.

What is required?

- A PC with a web browser (Chrome, IExplorer, Firefox, etc.) and an Ethernet port.
- An Ethernet cable to connect the PC to the MTX.

Steps to access the configuration environment.

- Connect an Ethernet cable between the PC and the MTX.
- The PC must have a fixed IP address, within the range 192.168.1.X, as the IP address is 192.168.1.2
- Open a browser with the address http://192.168.1.2 . The following window should appear:

MTX-Router-Titan-3G ×	
← → C 192.168.1.2/index.php	☆ 📜 =
TXRouter Intelligent Router - Control Panel	Titan
Username: Password: LOGIN	
MTX-Router-Titan-3G - Web Panel Control	

• Use the default username and password: admin and admin.

4. Configuration

4.1 WAN

The WAN section covers all aspects related to the router's 2G/3G/4G configuration, including the connection status, network configuration parameters and connection monitoring.

4.1.1 WAN: Status

This screen shows the general status of the router:

- Firmware Version: FW version of the router
- WAN IP: WAN IP address (IP address assigned to the 2G/3G/4G connection) if this is available.
- GSM Module: indicates the manufacturer and model of the router's internal GSM module.
- IMEI: device identifier.
- Network (2G/3G/4G): indicates whether the current WAN connection is using the 2G (GPRS), 3G or 4G network.
- Signal Strength: indicates the strength of the signal. 0=none, 31=maximum
- Extra signal info: additional information for 3G and 4G networks.
- Internal Temperature: displays the internal temperature of the processor. (This does not indicate the ambient temperature).

	TXR Intelligent Router - Co	oute	r Titan
Wan	► Wan ► Status		
• Status • Basic Settings	Firmware version:	5.2.1.07	
• Keep Online	WAN IP:	95.126.84.7	WAN IP (2g/3g/4g Network)
 LAN Basic Settings DHCP Server Firewall 	GSM Module:	Quectel EC25 Revision: EC25EUGAR06A01	.M4G
NAT Authorized IPs	IMEI:	865546044639447	Device identification
Other	Network (2g/3g/4g):	4g (Movistar)	Used network at this moment
• AT Command	Signal Strength:	22 (-69dbm)	Signal Strength (0 31)
Sms control Periodic Autoreset Time Servers Remote Console	Extra signal info:	Rsrp: -101dBm Rsrq: -13dB	For 3g & 4g Network
 Https User Permissions Passwords Web UI CA-Certificates Email Config Power Alarm 			
 Backup / Factory Firmware Upgrade Reboot Logout 	Internal temperature:	40.0	Temperature of internal processor (°C)

4.1.2 WAN: Basic Settings

This section covers the configuration of the WAN connection (2G/3G/4G) parameters. You will need to know about your SIM card, including the APN, username and password. Your provider must give them to you:

- Enabled WAN: check the box to allow the MTX-Router-Q to enable the 2G/3G/4G connection.
- Session Time: indicates the number of minutes that the 2G/3G/4G connection must remain active. "0" means that the connection will always be active. If you specify a number greater than 0, the connection will remain active for the specified minutes after an event such as receipt of an SMS message or a missed call. Go to the configuration menu "Other > SMS Control" to activate and configure these events if you are specifying a number> 0.
- APN: Operator APN. Ask your GSM provider.
- Username: operator username. Ask your GSM provider.
- Password: operator password. Ask your GSM provider.
- Call center: Call center number Usually *99***1#
- Sim card Pin: if your SIM card has a PIN you must enter it here.
- Authentication: you must indicate the authentication method. Usually PAP.
- Network selection:
 - auto: the router will use 4G if there is coverage, or 3G and 2G otherwise.
 - 4G: the device will use the 4G network in all cases. If there is no 4G coverage, the router will not switch to 2G or 3G
 - 3G: the device will use the 3G network in all cases. If there is no 3G coverage, the device will not switch to 2G.
 - GPRS: the device will use the 2G network in all cases.
- DNS1 and DNS2: DNS servers for domain name resolution. We recommend using Google's 8.8.8.8 and 8.8.4.4, or those indicated by your provider.
- Remote management: if you check the box, you will be able to access the router's web configuration page remotely, through its public IP address (the one indicated in WAN>Status).
- Remote TCP Port: indicates the remote configuration TCP port. For example, if you specify 8080, the configuration URL will be http://x.x.x.x8080. By default, the standard port is 80, but if you wish to perform an NAT to the TCP80 port of an internal ETH device (IP camera, PLC), you will need to change it, for example, to 8080.

	Intelligent Router - Con	oute trol Panel	r Tital
Wan • Status • Basic Settings • Keen Online	► WAN ► Basic Set	tings	Enable GSM WAN interface
LAN O Basic Settings DHCP Server	Session Time	0 movistar es	Time in minutes (0 = always on)
Firewall	Username:	MOVISTAR	Username for wireless session
• NAT • Authorized IPs	Password:	MOVISTAR	Password for wireless session
Other • AT Command	Sim Pin:	33 - 1#	SIM user pin
Sms control Periodic Autoreset Time Servers	Authentication:	РАР	✓ Authentication method
Https User Permissions Passwords Web UI	Network selection:	Auto	✓ Network selection
• CA-Certificates • Email Config	DNS selection:	Get DNS from Operator	~
• Power Alarm • Backup / Factory	DNS1:	8.8.8	Preferred DNS1
• Firmware Upgrade • Reboot • Logout	DNS2:	8.8.4.4	Preferred DNS2
	Remote management		Enable remote management
	Remote TCP Port	80	TCP Port for remote http connections.
	SAVE CONFIG		

Additional Notes:

4.1.3 WAN: Keep Online

On this screen you can configure a PING to check the router's connectivity. If the PING fails three times, the 2G/3G/4G connection will be restarted. We recommend you use this feature.

- Enabled: check the box to allow the MTX-Router-Q to send a PING to periodically check connectivity.
- Ping Server: indicates the IP address of the server to PING.
- Period: indicates the number of minutes between each PING.

	TVE	Dout	Titon
	Intelligent Pouter	Control Panel	
_	intelligent Notice	- control r aner	
🔹 Wan	► WAN ► Keep	Online	
Status Basic Settings	Enabled:		Enable PING method for keep online Wan Session
• Keep Online	Ping Server:	8888	IP or DNS address
🔶 LAN	Deried	0.0.0.0	l minutes habuses nines
 Basic Settings DHCP Server 	Period:	5	minutes between pings
🔶 Firewall			
• NAT • Authorized IPs	SAVE CONFIG		

Additional Notes:

4.2 LAN

The "LAN" configuration section refers to the Ethernet configuration part

4.2.1 LAN: Basic Settings

This section lets you configure the basic network parameters of the Ethernet connection.

	Intelligent Router - C	Control Panel	er Titan
 Wan Status Basic Settings Keep Online 	► LAN ► Basic S	ettings	Static IP enabled
 LAN Basic Settings DHCP Server 	IP Address:	192.168.1.2 255.255.255.0	Local IP LAN
 Firewall NAT Authorized IPs 	IP Gateway:		Left blank if not used or using WAN connection
 Other AT Command Sms control 	► LAN ► Basic S	Settings > DNS	
 Periodic Autoreset Time Servers Remote Console Https User Permissions 	DNS 1: DNS 2:		DNS Server 1 DNS Server 2
 Passwords Web UI CA-Certificates Email Config Power Alarm Backup / Factory Firmware Upgrade Reboot Logout 	SAVE CONFIG		

- Static IP: a static IP address will be assigned.
- IP Address: local IP address of the Ethernet interface (by default 192.168.1.2).
- IP Subnet Mask: subnet mask.
- IP Gateway: IP address of Gateway. Blank if 2G/3G/4G connectivity is to be used. For example, it is useful to provide Internet connectivity to Wifi devices, but redirecting the output not via 2G/3G/4G, but via Ethernet to the IP address of an ADSL/Fibre router.
- DNS1: primary DNS server.
- DNS2: secondary DNS server.

Additional Notes:

4.2.2 LAN: DHCP Server

This section covers the enabling and configuration of the DHCP server assigned to the router's Ethernet interface:

- Enabled: checking the box will enable the DHCP server on the Ethernet interface.
- Starting IP Address: indicates the first IP address to be assigned by the DHCP server.
- Ending IP Address: indicates the last IP address to be assigned by the DHCP server.
- MAC Address / IP Address: these two parameters allow the DHCP server to always assign the same IP address to a given MAC address.

	Intelligent Router - Co		er Tita	31
Wan	► LAN ► DHCP Set	rver		
 Status Basic Settings 	Enabled:		DHCP Server enabled / disabled	
• Keep Online	Starting IP Address:	-	First IP address for DHCP (ex 192.1	68.1.100)
 LAN Basic Settings DHCP Server 	Ending IP Address:		Last IP address for DHCP (ex 192.1	68.1.110)
Firewall NAT Authorized IPs	SAVE CONFIG			
Other	MAC	C Address	IP Address	
 Sms control Periodic Autoreset Time Servers Remote Console Https User Permissions Passwords Web UI 	MAC Address: IP Address: SAVE RULE		Set a MAC address (ex 54:42:49: Set assigned IP address (ex 192.1	0A:E9:2C) 68.1.100)

- Once the configuration process is finished, click on the "SAVE CONFIG" button to save the changes. Press the "SAVE RULE" button for each MAC / IP pair you wish to create. You can create up to 10.
- Remember that you must restart the router for the new changes to take effect.

4.3 Firewall

Section for configuring the router's security features.

4.3.1 Firewall: NAT

Section from which ports can be mapped for access, from external devices, to internal devices connected to the router. For example, if you have an IP camera connected to the Ethernet port of the MTX-Router-Q router and you wish to access the camera from a remote computer, this section must be configured appropriately. You can create up to a total of 10 rules.

- Service name: descriptive name of a mapping rule
- Protocol: indicates the port mapping protocol. TCP, UDP or both.
- Input port: indicates the "listening" port of the MTX-Router-Q router.
- Output port: indicates the "listening" port of the device connected to the MTX-Router-Q router that is to be controlled externally. In other words, data received at the router's "Input port" is redirected to this internal "Output Port".
- Server IP Address: IP address of the device to be externally controlled (e.g. IP address of a camera).

Wan	Firewall > NAT	Г			
• Status • Basic Settings • Keen Online	Service name	Protocol	Input Port	Output Port	Server IP Address
LAN			_		
Basic Settings	Service name:			Insert a na	me for the service
DHCP Server	Protocol:	TCP+UD	P	✓ Select TCP/	UDP protocol
irewall	Input Port:			Input port	(0 65535) - Router
NAT	inpuctorer				o oboody iteater
Authorized IPs	Output Port:			Output por	(0 65535) - Destination serv
ther	Server IP Address:			Set the IP	of the destination server
AT Command Sms control Periodic Autoreset				_	
> Time Servers Remote Console > Https	SAVE SERVICE				
Passwords Web UI CA-Certificates Email Config	Firewall > NAT	• Other			
Email Coming					

Additional Notes:

- Once the configuration process is finished, click on the "SAVE CONFIG" button to save the changes. Remember that you must restart the router for the new changes to take effect.
- You must also remember that in order to perform a NAT correctly:
 - the LAN IP address of the device to be controlled must be within the network range of the LAN IP address of the TITAN-based device.
 - The Gateway IP address of the device to be controlled must be the LAN IP address of the MTX-Router-Q router. See the examples in the Appendix for more information.
- It is possible to specify the interface for NAT. If you are unfamiliar with the feature, please use the "auto" option. This option, for example, could be useful for OpenVPN if you wish to access devices connected to the Ethernet port via NAT (and thus have the same).

4.3.2 Firewall: Authorized IPs

This screen allows you to define, if you wish, up to 3 IP addresses authorised for WAN connections (on the 2G/3G/4G interface) for the router's different services. For example, if an authorised IP address of 90.166.108.200 is specified (for instance that of your office), certain services will only be accessible from that IP address.

- Authorized IP1: authorised IP address number 1.
- Authorized IP2: authorised IP address number 2.
- Authorized IP3: authorised IP address number 3.
- Router configuration: specifies whether remote connections to the web configuration environment are accepted from any IP, or only from authorised IP addresses.
- Remote console: specifies whether to accept remote connections to the remote console service from any IP, or only from authorised IP addresses.
- NAT: specifies whether to accept remote connections to the device's mapped ports from any IP, or only from authorised IP addresses.
- Outgoing Connections: lets you specify whether the MTX-Router-Q router can provide Internet access to all IP addresses or only to authorised IP addresses. For example, imagine you only want Ethernet devices connected to the MTX-Router-Q to be able to send data to your server, preventing the router from being misused for other actions (Internet browsing, etc.).
- PING: will only respond to PING requests made from authorised IPs.

	ITX PA	niite	
		Juce	
	Intelligent Router - Con	troi Panei	
Wan	Firewall > Autho	rized IPs (for WAN i	nterface)
Status Basic Settings	Authorized IP1:	1	Remote connections from this IP are allowed
• Keep Online	Authorized IP2:	-	Remote connections from this ID are allowed
LAN	Authorized IP2.		Describe connections from this IP are allowed
• Basic Settings	Authorized 193:	. <u> </u>	Remote connections from this 1P are allowed
• DHCP Server			
Firewall	Router configuration	ALLOW ANY IP	Security for remote configuration connection
Authorized IPs	Remote console:	ALLOW ANY IP	✓ Security for remote console connection
Other	NAT:	ALLOW ANY IP	➤ Security for NAT connections
• AT Command	TCP & UDP exceptions:	ALLOW ANY IP	✓ Security for TCP & UDP port exceptions
Sms control Periodic Autoreset	Outgoing connections:	ALLOW ANY IP	✓ Security for outgoing connections
• Time Servers	PING:	ALLOW ANY IP	✓ Security for incomming PING from WAN
Remote Console Https			
• User Permissions			
• CA-Certificates	SAVE CONFIG		
- Frendlinger Ba			

- Once the configuration process is finished, click on the "SAVE CONFIG" button to save the changes. Remember that you must restart the router for the new changes to take effect.
- If you use restrictions on "Outgoing connections", remember that you also need to specify the IP address of the DNS server, so that it can be used in the event that domain names are employed rather than IP addresses.
- If you need more than 3 authorised IP addresses, you can specify more than one IP address in any box, separating them by a comma "," as shown in the example in the previous figure.

4.4 Other

This section refers to the configuration of other aspects and functionalities for the MTX-Router-Q router.

4.4.1 Other: AT Command

In this section, you can send an AT command directly to the router's internal modem. For example, you may wish to check the coverage or to identify nearby telephone cells, etc.

It is also possible to configure up to 5 special AT commands through which to configure the device at start-up.

- AT Command: AT command for real-time execution (e.g. AT+CSQ). Once you click on the "SEND AT COMMAND" button, the AT command will be executed.
- AT1, ... AT5: initialisation AT commands.

► Other ► AT Command	
itus	
sic Settings	
AT Command:	Execute custom AT Command
sic Settings	
CP Server SEND AT COMMAND	
vall	
r	
thorized IPs Init commands	
r	
Command	Custom initialization command 1
s control AT2:	Custom initialization command 2
iodic Autoreset	Custom initialization command 2
AI3:	Custom Initialization command 3
DS AT4:	Custom initialization command 4
Permissions AT5	Custom initialization command 5
AID.	Custom midalization command

Additional Notes:

4.4.2 Other: SMS Control

This section lets you configure control of the router using SMS messages or missed calls. For example, you can configure it so that the router connects to 3G when an SMS is received, or specify the telephone numbers authorised for this purpose:

- SMS enabled: check the box if you want to be able to activate the router's 2G/3G connection temporarily, when an SMS message is sent. The SMS message you have to send to the router to activate the connection is "ROUTER ON", in capital letters.
- Send IP: check the box if you want the router to send back an SMS message with the IP address
- AT enabled: check this box if you want to be able to send AT commands by SMS to the router, e.g. to find out the coverage remotely, to perform a reset or to change the configuration, etc.
- AT header: here you can enter the header text for SMS command messages. For example, if you type "mtx" in this box, when an AT command is sent by SMS, for instance the ATI command to find out the router's internal module, you would need to send an SMS message with the text "mtx ATI".
- All phones: check this box if you want all telephones to be able to send AT commands to the router. Do not check this box if you want to specify a set of authorized phone numbers.
- Authorized Number X: in these boxes you can specify up to 5 authorised telephone numbers.
- Alias/ATCommand: Up to 10 aliases can be entered to execute SMS commands. Imagine you
 want to send an SMS to get the IP. For example, you can configure an ALIAS so that when the
 MTX receives the text "get ip", it will in fact execute the AT command: AT^MTXTUNNEL=GETIP.
- Alias Result OK: text that is sent in response when the execution of an ALIAS command is successful. If you wish, you can return a personalised response for each ALIAS, indicating the response between tags: <al>Ok</al>
- Alias Result ERROR: text that is sent in response when the execution of an ALIAS command has failed. If you wish, you can return a personalised response for each ALIAS, indicating the response between tags: <al>Error</al><a2>Upssss</a2>...
- Alias Hide AT: check this box if you want to hide the AT command in SMS responses.

Wan	► Other ► SMS co	ntrol	
o Status o Basic Settings	WAN activation		
• Keep Online	SMS:	enabled	Activation by SMS allowed
 basic Settings DHCP Server 	send IP:	enabled	Send SMS with IP after activation with SMS or CAL
Firewall	Another SMS functions		
• NAT • Authorized IPs	AT :	enabled	Send AT Commands by SMS allowed (you can reboot the device, get IP Wan, get GSM RSSI, change configuration,)
Other	AT header:	mtx	Header of at commands
Sms control			
• Periodic Autoreset • Time Servers	Authorized phone numbers:	all phones	All Phones are allowed
Remote Console Https			Authorized number 1
• User Permissions			Authorized number 2
Passwords Web UI CA-Certificates			Authorized number 3
• Email Config • Power Alarm			Authorized number 4
Backup / Factory			Authorized number 5
Reboot			
• Logout		ALIAS	AT COMMAND
	Alias 1:		
	Alias 2:		
	Alias 3:		
	Alias 4:	1	
	Alias 5:		
	Alias 6:		
	Alias 7:		
	Alias 8:		
	Alias 9:	-	
	Alias 10:		
	Alias Result OK:	ОК	Returned message for OK
	Alias Result ERROR:	ERROR	Returned message for ERROR
	Alias Hide AT:		Check in you want to hide the AT command in the SMS response.

- Once the configuration process is finished, click on the "SAVE CONFIG" button to save the changes. Remember that you must restart the router for the new changes to take effect.
- See Application Note 3: ALIAS SMS for more information and examples. You will also see how to add parameters to the ALIAS.

4.4.3 Other: Periodic Autoreset

In this section you can configure a scheduled router autoreset.

- Autoreset not enabled: enable the option if you do not want the router to restart automatically.
- Autoreset every X hours: enable the option if you want the router to autoreset every X hours.
- Number of hours: if you select Autoreset every X hours, you must specify X, i.e. the number of hours after which the reset takes place, in this box. Specify 24 for a daily reset.
- Autoreset at specific time: select this option if you want the router to autoreset at a certain time of the day.
- Time for autoreset: specific time for daily autoreset.
- Reset if router can't obtain IP after X minutes: highly recommended for context loss situations. For example, it lets you specify the number of minutes after which the MTX-Router-Q router will reset itself if it cannot obtain an IP address.

	Intelligent Router - C	ontrol Panel	er Titan
🔶 Wan	Other > Period	lic Autoreset	
 Status Basic Settings Keep Online 	O Autoreset not enabled	abled	
 LAN Basic Settings DHCP Server 	O Autoreset every 3	X hours	
Firewall • NAT	Number of hour:	24	Every X hours device will be rebooted
• Authorized IPs	O Autoreset at spec	cific time	
 Other AT Command Sms control Periodic Autoreset Time Servers 	Time for autoreset	0	0 23
Remote Console Alttps	Reset if router ca	n't obtain IP after X m	inutes
User Permissions Passwords Web UI CA-Certificates Email Config Power Alarm	Time for reset	15	5 1440 min.
• Backup / Factory • Firmware Upgrade • Reboot • Logout	SAVE CONFIG		

Additional Notes:

4.4.4 Other: Time Servers

The router has a real-time clock that enables it to keep time even if power is lost. This built-in clock must be synchronised periodically with time servers via the NTP protocol.

- Enabled: check this box if you want to use NTP time servers.
- NTP Server 1: IP or DNS address of time server 1.
- NTP Server 2: IP or DNS address of time server 2.
- Time Zone: lets you specify the time zone.
- Current Time: current date and time of the router.

		Olite	
		UUUU	
	Intelligent Router -	Control Panel	
🔶 Wan	► WAN ► Time	Server (NTP)	
Status Basic Settings	Enabled:		Enable NTP
• Keep Online	NTD Server 1	time1 google com	ID or DNS address
* LAN	NTD Common 2:	time1.google.com	
• Basic Settings	NTP Server 2:	time2.googie.com	IP or DNS address
• DHCP Server	Time zone:	UTC	Select the timezone
🚖 Firewall	Current Time:	21-09-2021 10:47:32	Current date & time of the system
• NAT • Authorized IPs			
- 011			
• AT Command	SAVE CONFIG		
- Core sector!			

- Once the configuration process is finished, click on the "SAVE CONFIG" button to save the changes. Remember that you must restart the router for the new changes to take effect.
- You can specify your time zone.

4.4.5 Other: Remote Console

If at any time you need to perform a special operation on the router using a "Telnet type" connection, you can do so by configuring this section. With this special connection you can, by sending AT commands via a Telnet connection, send an SMS, make a router configuration change, switch a relay, etc. See section 5 of this manual for a list of available AT commands.

- Enabled: check this box if you want to use this special connection.
- TCP Port: listening TCP port of the router where the connection must be made.
- Username: username that will be requested after establishing the connection.
- Password: user password that will be requested after entering the username.
- SSH: check the box if you want to use SSH instead of Telnet.

	TY	Dout	for Titon
	Intelligent Router	- Control Panel	
Wan	Other Rer	note Console (TC	P Server)
Basic Settings	Enabled:		Enable remote console
• Keep Online	TCP port:	22	TCP port for remote console
LAN	Username:	user	Username of your account
 Basic Settings DHCP Server 	Password:	•••••	Password of your account (min 5 char)
Firewall	SSH:		Enable SSH security
NAT Authorized IPs			
• Addioneed in 5			
Other	SAVE CONFIG		

- Once the configuration process is finished, click on the "SAVE CONFIG" button to save the changes. Remember that you must restart the router for the new changes to take effect. If you check/uncheck the SSH box, you will also need to re-enter the password.
- The remote console can be accessed both locally (Ethernet) and remotely via a 2G/3G/4G connection.

4.4.6 Other: HTTPS

MTX-Router-Q routers allow HTTPS to be enabled in the configuration environment if required.

• Enabled: enables the HTTPs service (certificates are generated automatically after rebooting).



- Once the configuration process is finished, click on the "SAVE CONFIG" button to save the changes. Remember that you must restart the router for the new changes to take effect.
- When trying to connect to the MTX-Router-Q router via HTTPS, the browser will probably show a warning message about the self-signed digital certificate. This is normal.

4.4.7 Other: User Permissions

In this section the user can configure the permissions to which the "user" will have access. Configuration options that are not selected will not appear in the left-hand menu of the configuration environment when logging in to the router as "user".

	► Other ► Us	er Permissions		
• Status				
• Basic Settings	Wan			
• Keep Online		Basic Settings		
LAN		Keen Online		
• Basic Settings		Keep onine		
• DHCP Server	LAN			
Firewall		Basic Settings		
• NAT		DHCP Server	0	
• Authorized IPs	-			
Other	Firewall			
• AT Command		NAT		
Sms control Periodic Autoreset		Authorized IPs		
• Time Servers	Other			
Remote Console	o unut		-	
• User Permissions		SMS Control		
• Passwords Web UI		Periodic autoreset		
CA-Certificates Empil Config		Time Servers		
• Power Alarm		Pamata Cancala		
• Backup / Factory		Remote Console		
• Firmware Upgrade		Https		
• Logout		CA-Certificates		
		Email Config	0	
		Power Alarm		
		Firmware Hearada		
		Filmware opgrade	D	
		Reboot		

Additional Notes:

4.4.8 Other: Passwords Web UI

There are two usernames for accessing the router configuration. The "admin" user, from which you will have access to the entire device configuration, and "user", from which you will have access to the configurations you select (very useful if you customise the device with your logos). In this section you can change the Password of both users. There is also a "guest" user, which will allow you to access the same menus as the "user" user, but without being able to make configuration changes.

Wan • Status	Other > Passwe	ord Web UI	
 Basic Settings Keep Online 	Administrator		
LAN Basic Settings	Username:	admin	Mandatory. Default 'admin'
• DHCP Server	Password:		Password for router administration
Firewall • NAT • Authorized IPs	Re enter Password:		Re-enter password for router administration
Other • AT Command • Sms control • Periodic Autoreset	SAVE ADMIN PASS		
• Time Servers • Remote Console	General User		
• User Permissions	Username:	user	Blank is not used
• CA-Certificates	Password:		Password for router administration (user)
Email Config Power Alarm Backup / Factory	Re enter Password:	-	Re-enter password for router administration (user)
 Pirmware Upgrade Reboot Logout 	SAVE USER PASS		
	Guest		
	Username:	guest	Blank is not used
	Password:		Password for router read mode (guest)
	Re enter Password:	2	Re-enter password for router read mode (guest)
	SAVE GUEST PASS		

- To save the changes, once configuration is complete, press the "SAVE..." button depending on whether you are an admin, a user or a guest. Remember that you must restart the router for the new changes to take effect.
- You can view user activity using the "VIEW LOG" button.

4.4.9 Other: CA-Root Certificates

Up to two CA Root certificates can be imported into the MTX-Router-Q router.

	TXROUTER TITAN
 Wan Status Basic Settings Keep Online 	Custom CA-Root Certificates (PEM format)
 LAN Basic Settings DHCP Server 	User CA-Root-1 Examinar No se ha seleccionado ningún archivo. Upload not uploaded
 Firewall NAT Authorized IPs 	User CA-Root-2 Examinar) No se ha seleccionado ningún archivo. Upload not uploaded
 Other AT Command Sms control Periodic Autoreset Time Servers 	DELETE User CA-Root-1 DELETE User CA-Root-2

Additional Notes:

• To delete any of the previously uploaded CA-Root certificates, use the corresponding "DELETE..." button depending on whether it is certificate 1 or 2.

4.4.10 Other: Email Config

MTX-Router-Q routers allow email notifications to be sent. They also allow emails to be sent via AT commands (see "AT commands" section). The router must be pre-configured to be able to send emails. That is, you must configure the SMTP server from this section.

- Enabled: select if you want to enable this option.
- Smtp Server: address/dns smtp server, e.g. smtp.gmail.com, smtpout.secureserver.net
- Smtp Port: TCP port of the SMTP server
- Authentication: select whether the SMTP server requires authentication (usually yes)
- TLS: select whether the SMTP server requires TLS
- User: username of the source email account
- Password: password of the source email account
- Email address: source email address from which the emails will be sent



🔶 Wan	🕨 Other 🕨 Emai	l configuration	
• Status • Basic Settings	Enabled:		Enable Email
V Keep Online	Smtp Server:	smtp.gmail.com	Ex: smtp.gmail.com, smtpout.se, cureserver.net ,
LAN Basic Settings	Smtp Port:	25	TCP port for SMTP Server (25, 465, 587,)
• DHCP Server	Authentication:		Check if authentication is required
🔶 Firewall	TLS:		Check if TLS is required
• NAT • Authorized IPs	User:	mtxrouter	User of email account
+ Other	Password:	•••••	Password of email account
AT Command Sms control	Email address:	mtxrouter@gmail.com	Email address for sending emails (Ex: myemail@gmail.com)
Periodic Autoreset Time Servers			
• Remote Console • Https	SAVE CONFIG		

- Once the configuration process is finished, click on the "SAVE CONFIG" button to save the changes. Remember that you must restart the router for the new changes to take effect.
- Please note that if you are using the Gmail SMTP server, you may need to enable certain settings in your account to be able to send emails from an IOT device. To do this, log in to your Gmail account from your computer and:
 - Enable the option: http://www.google.com/settings/security/lesssecureapps.
 - Enable: http://www.google.com/accounts/DisplayUnlockCaptcha.

4.4.11 Other: Power Alarm

In the event that the MTX-Router-Q router loses external power supply and is powered exclusively by battery, it is possible to send an alarm via SMS or email:

- Enabled: enables/disables the power alarm.
- Phone numbers: telephone number where the SMS will be sent. If there is more than one number, numbers should be separated by ";".
- Text SMS Alarm ON: text to be sent in the SMS when the alarm is activated.
- Text SMS Alarm OFF: text to be sent in the SMS when the alarm is deactivated.
- Email addresses: email address where the email will be sent. If there is more than one address, these must be separated by ";".
- Email subject Alarm On: text to be sent in the email when the alarm is activated.
- Email subject Alarm Off: text to be sent in the email when the alarm is deactivated.

Wan	Other > Power alarm	
• Status • Basic Settings • Keep Online	Enabled:	Enable power alarm
LAN Basic Sottings	Phone numbers:	Phone numbers separated with ;
• DHCP Server	Text SMS Alarm On	SMS text when alarm is activated
Firewall • NAT • Authorized IPs	Text SMS Alarm Off	SMS text when alarm is deactivated
Other	Email addresses:	Email addresses separated with ";"
• AT Command	Email subject Alarm On	Email subject when alarm is activated
Sms control Periodic Autoreset	Email subject Alarm Off	Email subject when alarm is deactivated

Additional Notes:

4.4.12 Other: Backup/Factory

You can make a full backup of the router configuration in this menu. You can save the configuration to a file and restore it back to the router when needed. You can also reset the router to factory settings.

- "Factory Settings" button: press to restore the router to factory settings.
- Link "Download current settings": click the link to download the router's configuration to a file named "config.mtx".
- "Browse" button: to restore a saved configuration, after indicating the configuration file to be used, press the "Upload" button to upload the file.

	TXRouter Titan
 Wan Status Basic Settings Keep Online 	Other > Backup / Factory Press the button for factory settings
 LAN Basic Settings DHCP Server 	Factory Settings
 Firewall NAT Authorized IPs 	Press next link for download current settings
 Other AT Command Sms control Decidie discusses 	
 Periodic Autoreset Time Servers Remote Console Https 	Select a config.mtx file, then press the button for upload the configuration file Examinar) No se ha seleccionado ningún archivo.
Oser Permissions Passwords Web UI CA-Certificates Email Config	Upload
Power Alarm Backup / Factory Eirmware Ungrade	

• Reboot • Logout

4.4.13 Other: Firmware Upgrade

The MTX-Router-Q firmware can be updated with an image file with extension ".img". Select it via the "Browse" button and press the "Upload" button to upload the file.



4.4.14 Other: Reboot

From this section it is possible to reboot or shut down the MTX-Router-Q router.



Additional Notes:

• To switch off the equipment, there must be no external power supply and the equipment must be powered exclusively by the battery. The "POWER DOWN" functionality is implemented in order to prevent the batteries from discharging. Once the equipment is switched off, when external power is available again, the equipment will automatically switch on.

5. AT commands

The MTX-Router-Q routers have a Quectel brand internal modem, model EC25-EU. The router's firmware allow AT commands to be sent directly to the internal modem through multiple interfaces:

- Via SMS
- Via Telnet (Remote Console, via 3G or Ethernet)
- Via Webserver (via 3G or Ethernet)

You can therefore send AT commands to the router at your own risk. The accepted AT commands are those listed in the AT commands manual for the Quectel EC25-EU module, plus the additional ones listed below:

• AT^MTXTUNNEL=REBOOT

Action: restart the MTX-Router-Q router.

• AT^MTXTUNNEL=VERSION

Action: returns the MTX-Router-Q router's firmware version.

• AT^MTXTUNNEL=GETIP

Action: returns the WAN IP address (2G/3G/4G)

• AT^MTXTUNNEL=SMS,telephoneNumber,message

Action: allows you to send an SMS message to a specific telephone number.

Example: AT^MTXTUNNEL=SMS,+34677123456,burglar alarm

AT^MTXTUNNEL=EMAIL,destinationAddress,Subject

Action: allows you to send an email (subject only) to a specific email address. To send the email, you must have previously configured the "Other > Email Configuration" section.

Example: AT^MTXTUNNEL=EMAIL,jgallego@matrix.es,Alarm temperature

• AT^MTXTUNNEL=GETTIME

Action: return the current time. Useful for devices connected to the device, which can use this command to synchronise their time.

Example:

```
AT^MTXTUNNEL=GETTIME
AT^MTXTUNNEL=GETTIME
21/05/2016 10:56:52
OK
```

• AT^MTXTUNNEL=GETPARAM,paramName

Action: lets you read the value of a configuration parameter of the MTX-Router-Q router. For example, you can consult the configuration of each parameter of the MTX-Router-Q router from a web platform, or from a device connected to the Ethernet port of the MTX-Router-Q router. Contact Matrix Electrónica on iotsupport@mtxm2m.com if you want to use this command, as you will need the list of available parameters.

• AT^MTXTUNNEL=SETPARAM,paramName,paramValue

Action: lets you change the value of a configuration parameter of the MTX-Router-Q router. For example, you can change the configuration of almost any parameter of the MTX-Router-Q router from a web platform, or from a device connected to the Ethernet port of the MTX-Router-Q router. Contact Matrix Electrónica on iotsupport@mtxm2m.com if you want to use this command, as you will need the list of available parameters.

• AT^MTXTUNNEL=ROUTERON,numMinutes

Action: if the router is not configured for a permanent Internet connection, this command allows you to activate the connection at a time of your choice for the time specified in "numMinutes", which can be from 1 to 1,440. Similarly, if you want to terminate the Internet connection before the time runs out, you can do so with the same command by setting the "numMinutes" parameter to 0.

For the rest of the standard commands, please refer to the Quectel AT commands manual for the exact format and functionality of each of the EC25-EU module's commands. If you do not have this documentation, please send an email to iotsupport@mtxm2m.com.

1. APPENDIX: Basic example scenarios and configurations

1.1 Example scenario: Configuration to give Internet access to a device with Ethernet

Example scenario details:

- You have a device with an ETH port to which you want to give Internet access to send data to the cloud. The PLC has local IP address 192.168.1.70.
- It must be possible to access the router configuration remotely on the standard port TCP 80.
- SIM telephone cards with fixed IP addresses will be used.

Solution: MTX-Router-Q



Details:

- After the configuration has been loaded into your router, you can access the router's configuration with the default username and password: "admin" and "admin" and IP address "192.168.1.2".
- Check mainly the settings in the "Wan>Basic Settings" menus.
- Remember that for this to work, the IP address of the equipment must be within the range of the router's LAN IP address and that you must specify the Gateway IP address of the equipment with the router's LAN IP address, i.e. 192.168.1.2 in this example.



🚖 Wan	► WAN ► Basic Se	ttings	
• Status • Basic Settings	Enabled WAN		Enable GSM WAN interface
• Keep Online	Session Time	0	Time in minutes (0 = always on)
LAN			
• Basic Settings • DHCP Server	APN:	movistar.es	APN for wireless session
Firewall	Username:	MOVISTAR	Username for wireless session
• NAT • Authorized IPs	Password:	MOVISTAR	Password for wireless session
Other	Call center:	*99***1#	Call center (normally *99***1#)
• AT Command	Sim Pin:		SIM user pin
• Sms control • Periodic Autoreset	Authentication:	РАР	 Authentication method
• Time Servers • Remote Console			
• Https • User Permissions	Network selection:	Auto	Network selection
• Passwords Web UI			
 CA-Certificates Email Config 	DNS selection:	Get DNS from Operator	
Power Alarm Backup / Factory	DNS1:	8.8.8.8	Preferred DNS1
• Firmware Upgrade • Reboot	DNS2:	8.8.4.4	Preferred DNS2
• Logour	Remote management		Enable remote management
	Remote TCP Port	80	TCP Port for remote http connections.
	SAVE CONFIG		

1.2 Example scenario: Configuration for remotely connecting to an IP camera with Ethernet port via 3G/4G network.

Example scenario details:

- You have an IP camera with Ethernet port to which you want to give access to the Internet. The camera has local IP address 192.168.1.70.
- The IP camera has an internal webserver through which it is possible to access the video being captured by the camera. The TCP port used by the camera is TCP80 and cannot be changed. As remote access to the router is also required to access the configuration, the TCP port for remote configuration must be changed from port TCP 80 to port TCP 8080, so that there is no conflict with the camera port.
- Access to the remote configuration of the router is also required via the Internet from any IP address. On the other hand, the IP camera should only be accessible from IP addresses 200.1.2.3 and 200.1.2.4 corresponding to the central offices.
- SIM telephone cards with fixed IP addresses will be used.



Details:

- After the configuration has been loaded into your router, you can access the router's configuration with the default username and password: "admin" and "admin" and IP address "192.168.1.2"
- Check mainly the settings in the menus "Wan>Basic Settings", "Firewall > NAT", "Firewall > Authorized IPs"
- In order to access the camera's port TCP 80, it is necessary to perform a NAT, i.e. redirect the traffic that arrives on the router's TCP80 port to the camera's internal IP address and TCP port, i.e. IP 192.168.1.70
- Remember that for this to work, the IP address of the camera must be within the range of the router's LAN IP address and that you must specify the Gateway IP address of the camera with the router's LAN IP address, i.e. 192.168.1.2 in this example.



🕐 Wan	► WAN ► Basic Se	ttings	
• Status • Basic Settings	Enabled WAN		Enable GSM WAN interface
• Keep Online	Session Time	0	Time in minutes (0 = always on)
 LAN Basic Settings 			
• DHCP Server	APN:	movistar,es	APN for wireless session
🔶 Firewall	Username:	MOVISTAR	Username for wireless session
 NAT Authorized IPs 	Password:	MOVISTAR	Password for wireless session
Other	Call center:	*99***1#	Call center (normally *99***1#)
• AT Command	Sim Pin:		SIM user pin
• Periodic Autoreset	Authentication:	PAP	✓ Authentication method
 Time Servers Remote Console 			
• Https • User Permissions	Network selection:	Auto	✓ Network selection
• Passwords Web UI			
CA-Certificates Email Config	DNS selection:	Selected DNS Servers	~
 Power Alarm Backup / Factory 	DNS1:	8.8.8.8	Preferred DNS1
• Firmware Upgrade	DNS2:	8.8.4.4	Preferred DNS2
e Logout			
	Remote management		Enable remote management
	Remote TCP Port	80	TCP Port for remote http connections.
	SAVE CONFIG		

Service name Camera IP	Protocol	Input Port	Output Port	Server IP Address	
Camera IP	Annual Annual and a				
	tcp + uap	80	80	192.168.1.70	Delet
Service name:			Insert a nam	e for the service	
Drotocoli	TCDUUDD		Coloct TCD/	IDD protocol	
PIOLOCOI:	TCP+UDP		· Select TCP/I	DDP protocol	
Input Port:			Input port (C) 65535) - Router	
Output Port:			Output port	(0 65535) - Destinatio	n server
Server IP Address:			Set the IP o	f the destination server	
SAVE SERVICE					
Firewall > NA	F > Other				
Interface:	AUTO		✓ Interface for	r NAT ("auto" recommende	d)
0.0000000					
SAVE CONFIG					
	Service name: Protocol: Input Port: Output Port: Server IP Address: SAVE SERVICE Firewall > NA Interface: SAVE CONFIG	Service name: Protocol: TCP+UDP Input Port: Output Port: Server IP Address: SAVE SERVICE Firewall > NAT > Other Interface: AUTO SAVE CONFIG	Service name: Protocol: TCP+UDP Input Port: Output Port: Server IP Address: SAVE SERVICE Firewall > NAT > Other Interface: AUTO	Service name: Insert a name Protocol: TCP+UDP Input Port: Input port (0) Output Port: Output port Server IP Address: Set the IP of SAVE SERVICE Firewall > NAT > Other Interface: AUTO Interface for	Service name: Insert a name for the service Protocol: TCP+UDP Input Port: Input port (0 65535) - Router Output Port: Output port (0 65535) - Destination Server IP Address: Set the IP of the destination server SAVE SERVICE Interface: AUTO Interface for NAT ("auto" recommended in the service of the destination server

		Authorized IP2:	200.1.2.4	Remote connections from this IP are allowed
*	LAN • Basic Settings • DHCP Server	Authorized IP3:		Remote connections from this IP are allowed
*	Firewall	Router configuration	ALLOW ANY IP	Security for remote configuration connection
	• NAT • Authorized IPs	Remote console:	ALLOW ANY IP	Security for remote console connection
*	Other	NAT:	ONLY AUTHORIZED IP	 Security for NAT connections
	• AT Command	TCP & UDP exceptions:	ALLOW ANY IP	Security for TCP & UDP port exceptions
	Periodic Autoreset	Outgoing connections:	ALLOW ANY IP	Security for outgoing connections
	• Time Servers • Remote Console • Https	PING:	ALLOW ANY IP	Security for incomming PING from WAN
	User Permissions Passwords Web UI CA-Certificates	SAVE CONFIG		

1.3 Example scenario: Alarm configuration via SMS and email in the event of loss of external power supply.

Example scenario details:

- You have a device with an ETH port, which has access to the Internet thanks to the MTX-Router-Q.
- You want to detect when there is a power cut in the electricity supply. For this purpose, you want to receive the alarm notification by SMS as well as by email. Subsequently, you want to switch off the MTX-Router-Q router in order not to drain the batteries.
- When the external power supply returns, you want to be notified accordingly.
- SIM telephone cards with fixed IP addresses will be used.

Solution: MTX-Router-Q



Details:

- After the configuration has been loaded into your router, you can access the router's configuration with the default username and password: "admin" and "admin" and IP address "192.168.1.2".
- Check mainly the settings in the "Wan>Basic Settings" menus.



🕐 Wan	► WAN ► Basic Settings			
• Status • Basic Settings	Enabled WAN		Enable GSM WAN interface	
• Keep Online	Session Time	0	Time in minutes (0 = always on)	
 LAN Basic Settings 				
• DHCP Server	APN:	movistar.es	APN for wireless session	
🔶 Firewall	Username:	MOVISTAR	Username for wireless session	
 NAT Authorized IPs 	Password:	MOVISTAR	Password for wireless session	
Other	Call center:	*99***1#	Call center (normally *99***1#)	
• AT Command	Sim Pin:		SIM user pin	
• Sms control • Periodic Autoreset	Authentication:	PAP	✓ Authentication method	
• Time Servers • Remote Console				
• Https	Network selection:	Auto	✓ Network selection	
• Passwords Web UI				
 CA-Certificates Email Config 	DNS selection:	Selected DNS Servers	~	
 Power Alarm Backup / Factory 	DNS1:	8.8.8.8	Preferred DNS1	
Firmware Upgrade Reboot	DNS2:	8.8.4.4	Preferred DNS2	
e Logout				
	Remote management		Enable remote management	
	Remote TCP Port	80	TCP Port for remote http connections.	
	SAVE CONFIG			



🚖 Wan	Other Email configuration			
• Status • Basic Settings	Enabled:		Enable Email	
Keep Online	Smtp Server:	smtp.gmail.com	Ex: smtp.gmail.com, smtpout.se, cureserver.net ,	
 LAN Basic Settings 	Smtp Port:	25	TCP port for SMTP Server (25, 465, 587,)	
• DHCP Server	Authentication:		Check if authentication is required	
🔶 Firewall	TLS:		Check if TLS is required	
• NAT • Authorized IPs	User:	mtxrouter	User of email account	
Other	Password:	*******	Password of email account	
AT Command Sms control Periodic Autoreset Time Servers	Email address:	mbxrouter@gmail.com	Email address for sending emails (Ex: myemail@gmail.com)	
• Remote Console • Https	SAVE CONFIG			



2. APPENDIX A: Hardware connection overview

2.1 Hardware overview

Below you will find a basic connection diagram of the connection terminals of the MTX-Router-Q. VAC can have a value between 90 and 260 VAC.



The following table shows the connections available on the green connector of the MTX-Router-Q router.

GREEN CONNECTOR	FUNCTION
1	Earth
2	N (Neutral)
3	L (Live)

Offices and support

SPAIN

C/ Alejandro Sánchez 109 28019 Madrid

Phone: +34.915602737 Email: contact@webdyn.com

FRANCE

26 Rue des Gaudines 78100 Saint-Germain-en-Laye

Phone: +33 139042940 Email: contact@webdyn.com

INDIA

803-804 8th floor, Vishwadeep Building District Centre, Janakpurt, 110058 Delhi

Phone: +91.1141519011 Email: contact@webdyn.com

PORTUGAL

Av. Coronel Eduardo Galhardo 7-1°C 1170-105 Lisbon

Phone: +351.218162625 Email: comercial@lusomatrix.pt

TAIWAN

5F, No. 4, Sec. 3 Yanping N. Rd. Datong Dist. Taipei City, 103027

Phone: +886.965333367 Email: contact@webdyn.com

SUPPORT

Madrid Offices

Phone: +34.915602737 Email: iotsupport@mtxm2m.com

Saint-Germain-en-Laye Offices

Phone: +33.139042940 Email: support@webdyn.com

Delhi Offices

Phone: +91.1141519011 Email: support-india@webdyn.com

Taipei City Offices

Phone: +886.905655535 Email: iotsupport@mtxm2m.com