

MTX-MODEMS

Industrial Modems with LTE/4G/3G/2G

MTX-Modems are innovative industrial devices that comprise a complete set of wireless and wired interfaces. By providing an easy integration it avoids further hardware components.



	EasyTunnel	MTX-IoT-S	MTX-IoT-XS
Connectivity	4G/3G/2G	4G/3G/2G	4G/3G/2G
RS232	1	1 (DB9)	Up to 2 (*5)
RS485	1	1	Up to 1 (*5)
MiniUSB		1	1
Dig I/O	1 input/1 output	8: inputs/outputs	1x input, 1x output
ADC	7-30V	2 (0-50V/4-20mA)	
Internal relay		1 (latch)	
GPS		(*1)	
Wireless module		(*1)	
Very Low Power		✓	
Battery		✓	
Software	Titan V6	MTX-Tunnel software	
DualSIM	✓		
Supercap			



Serial to
4G/3G/2G



GPIO control



GPS
management



RF mesh
concentrator



Modbus master
datalogger



DynDNS
and no-IP



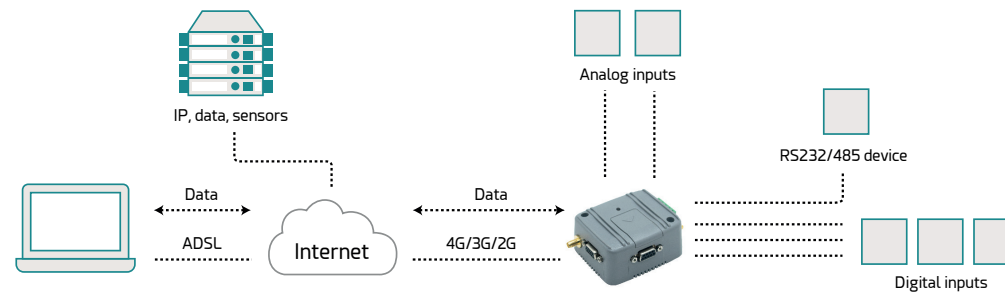
MQTT/MQTTs/
HTTP/HTTPs



SMS control

- (*1) Optional: one serial port missed
- (*2) Digital inputs can also work as pulse counter
- (*3) Multiplexed with digital I/Os
- (*4) Optional
- (*5) Up to 2x RJ45 that can be used either as 2x RS232 or 1x RS232 and 1x RS485 depending on the variant

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

SECURITY

- Authorized phone numbers
- Firewall IP, SSL connections, encrypted config.
- Secure OTAP (remote FIU upgrade)
- Watchdog hardware

ALARMS AND CONTROL

- Send SMS alarm when the level of digital 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 GPRS and GSM
- Astronomical clock