

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.

ALL MTX-MODEMS INCORPORATE MTX-TUNNEL SOFTWARE AND CERVELLO STEM

MTX-Tunnel Main Features



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



	MTX-IoT	MTX-IoT-S	MTX-IoT-XS	MTX-T	MTX-T2
Connectivity	4G/3G/2G	4G/3G/2G	4G/3G/2G	4G/3G/2G	4G/3G/2G
RS232	2 (DB9 and DB15)	1 (DB9)	Up to 2 (*5)	1 (DB9)	2 (DB9)
RS485	1	1	Up to 1 (*5)	1	
MiniUSB	1	1	1	1	1
Dig I/O	5 (3x Inputs, 2x Outputs)	8 (Inputs/ Outputs)	1x input, 1x output	1 (Input)	1 (Input)
Pulse input	3	8 (*3)			
ADC	2 (0-50V/4- 20mA)	2 (0-50V/4- 20mA)			
DAC		4			
1Wire		1	(*4)		
Internal relay		1 (latch)			
GPS	(*1)	(*1)			
Analog audio	(*2)				
Wireless module	(*1)	(*1)			
Very Low Power		✓			
Battery		✓			
Supercap	(*4)				

(*1) Optional: one serial port missed

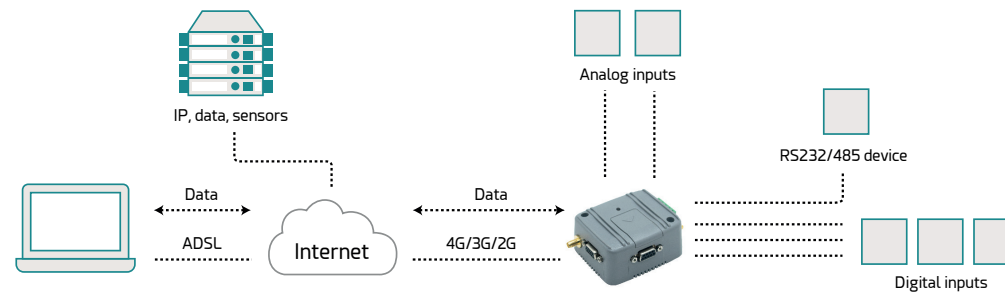
(*2) Optional: incompatible with RS485 and 4G

(*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