

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 ARE COMPATIBLE WITH MTX-TUNNEL SOFTWARE AND CERVELLO IOT PLATFORM.



	MTX-IoT	MTX-IoT-S	MTX-Java-T	MTX-Java-T2
Connectivity	4G/3G/2G	4G/3G/2G	4G/3G/2G	4G/3G/2G
RS232	2 (DB9 and DB15)	1 (DB9)	1 (DB9)	2 (DB9)
RS485	1	1	1	
USB	1	1	1	1
Dig I/O	5 (3x Inputs, 2x Outputs)	8 (Inputs/Outputs)	1 (Input)	1 (Input)
Pulse Input	3	8 (*3)		
ADC	2 (0-50V/4-20mA)	2 (0-50V/4-20mA)		
1Wire		1		
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

MTX-TUNNEL SOFTWARE MAIN FEATURES



Serial to
4G/3G/2G



GPIO control



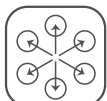
GPS
management



MQTT/MQTTs/
HTTP/HTTPs



RF mesh
concentrator



Modbus master
datalogger

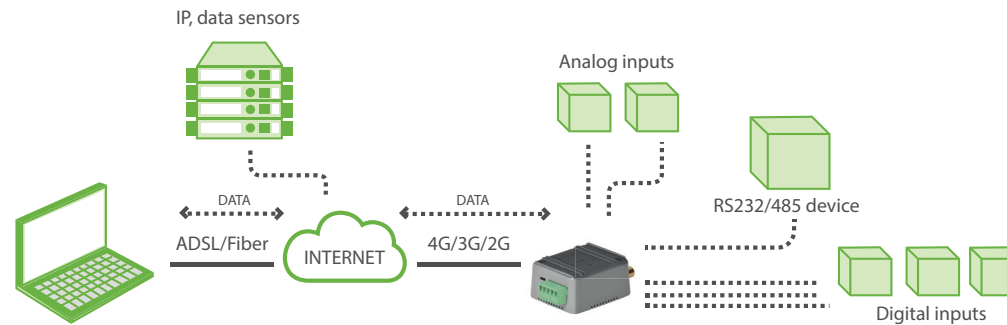


DynDNS
and no-IP





SMS control






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






SMS Alarm 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