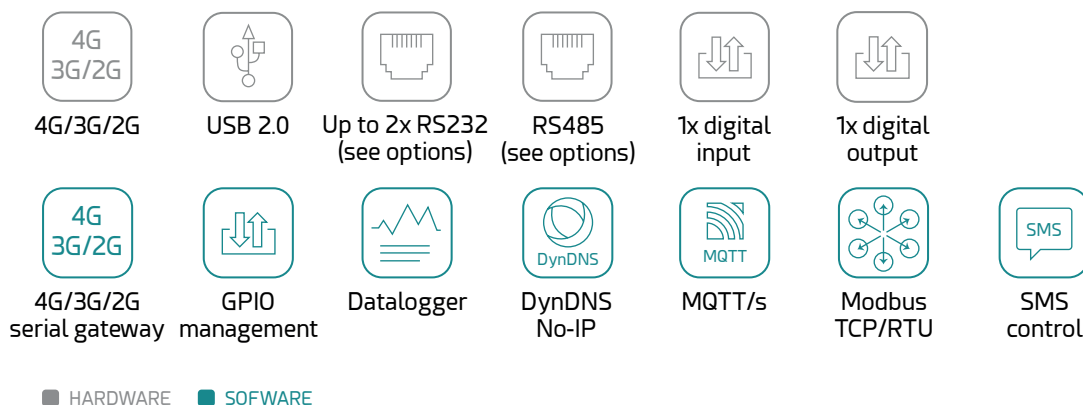# webdyn
flexitron group

MTX-IoT-XS
Basic 4G/3G/2G programmable IoT modem

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

Main Features

4G 3G/2G	USB 2.0	Up to 2x RS232 (see options)	RS485 (see options)	1x digital input	1x digital output
4G 3G/2G serial gateway	GPIO management	Datalogger	DynDNS No-IP	MQTT/s	Modbus TCP/RTU	SMS control

■ HARDWARE ■ SOFWARE

Strengths & Benefits

- Basic IoT modem.
- A complete set of interfaces.
- Embedded MTX-Tunnel firmware which turns the moden into a router.
- Programmable in JavaJ2ME.

Applications

- All-in-one solution for most IoT applications.

Specifications

MTX-IoT-XS 4G

EUROPE: Penta-Band LTE: Bands 1, 3, 8, 20, 28 (700, 800,900, 1800, 2100 MHz); Dual-Band UMTS/HSPA+: Bands 8, 1 (900, 2100 MHz); Dual-Band GSM: 900 and 1800 MHz

AUSTRALIA: Quad-Band LTE: Bands 3, 5, 8, 28 (1800, 850,900, 700 MHz); Tri-Band UMTS: Bands 1, 5, 8 (WCDMA/FDD 2100, 850, 900 MHz)

LTE Cat. 1 DL: max. 10.2 Mbps, UL: max. 5.2 Mbps

HSPA+ Cat.8 data rates DL: max. 7.2 Mbps, UL: max. 5.76 Mbps

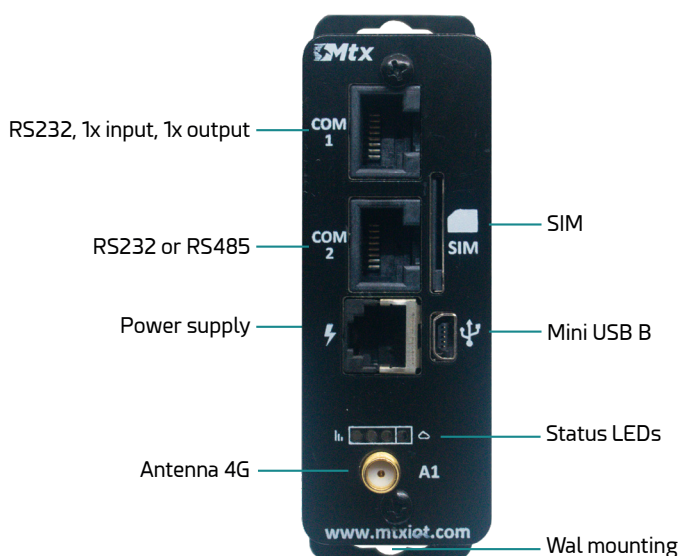**GPRS Class 12** DL: max. 85.6 kbps, UL: max 85.6 kbps

SMS text and PDU mode support

Interfaces

- 4G/3G/2G connectivity
- Up to 2x RS232 (see options)
- RS485 (see options)
- 1x digital input
- 1x digital output

Connectors

- 1x SMA F antenna connector: 4G
- Mini USB B
- RJ45 (COM1): RS232, 1x input, 1x output
- RJ45 (COM2): RS232 or RS485 (check options)
- RJ12: power supply 6-36V
- SIM card interface 1.8V and 3V

Characteristics

- Status LEDs
  Wallmounting with DIN rail
- DC input: 6 to 36 Vdc
- Temperature range: -30 - 85⁰C
- Dimensions: 100x30x80mm
- Weight: 130.5gr.
- Certifications: CE, FCC, PTCRB, RoHS, ISO9001

RS232, 1x input, 1x output — COM 1

RS232 or RS485 — COM 2

SIM

Power supply

Mini USB B

Status LEDs

Antenna 4G — A1

Wal mounting

www.mtxiot.com

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: Telnet, MQTT/MQTTS, SMS, HTTP

SECURITY

- Authorized phone numbers
- Firewall IP, SSL/TLS connections, encrypted config
- Secure OTAP (remote FW upgrade)
- Watchdog hardware

ALARMS AND CONTROL

- Send SMS/MQTT alarm when the level of digital or analog input change
- SMS can be sent to up 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 2G/3G/4G and GSM
- Astronomical clock

References

PRODUCTS

- MTX-IoT-XS [4-N]   **000199801473**
- MTX-IoT-XS [4-D]   **000199801475**

[X-Options]	
2: 2G	**N**: (standard) 1xRS232, 1xRS485
3: 3G/2G	**D**: 2x RS232
4: 4G/3G/2G	