

MTX-GATEWAY

LTE/4G/3G/2G outdoor IP67 industrial IoT gateway

MTX-Gateway has a set of interfaces powered by an ARM9 processor with embedded Linux and Java. By providing an easy integration it avoids using further hardware components. Interfaces: Ethernet, WiFi, USB OTG, RS232, RS485, RS422, CAN, 1-Wire, I2C, GPIOs, relays and a VGA video port. Its internal mini-PCIe slot can accommodate any communication board you need: LTE & GPS, HSPA+ & GPS, GPRS, GPS, WiFi, Bluetooth 2.1 or Bluetooth Low Energy. Optional internal GPS, WiFi, Bluetooth, Wireless MBus, 868/900MHz RF-ISM, Wavenis...



MAIN FEATURES



4G/3G/2G



Ethernet



RS232



RS485



WiFi



USB 2.0



Relays



IP67



GPS (optional)



Linux



AT commands



DHCP

DHCP









Firewall





















Java compatible*

*This device is Java compatible. It is the customer's responsibility to acquire the pertinent Java SE Subscription and Oracle agreement.

HARDWARE FEATURES

	MTX-GATEWAY 4G	MTX-GATEWAY 3G
	<p>EUROPE: Penta-Band LTE: Bands 1, 3, 8, 20, 28* (700*, 800, 900, 1800, 2100 MHz), Dual-Band GSM 900 & 1800 MHz</p> <p>US: Quad-Band LTE: Bands 2, 4, 5, 12 (700, 850, 1700/2100 (AWS) & 1900 MHz), Tri-Band UMTS: Bands 5, 4, 2 (WCDMA/FDD 850, 1700/2100 (AWS) & 1900 MHz)</p>	<p>WORLDWIDE: Five Bands UMTS (WCDMA/FDD); Bands: 800, 850, 900, 1900 & 2100 MHz. Quad-Band GSM; Bands: 850, 900, 1800 & 1900 MHz</p>
	LTE Cat.1 (3GPP Release 9): DL 10.2Mbps, UL 5.2Mbps	
	HSPA+ Cat.8 (3GPP Release 6,7): DL 7.2Mbps, UL 5.7Mbps	HSDPA Cat.8/HSUPA Cat.6 data rates: DL max. 7.2 Mbps, UL max. 5.76 Mbps
	GPRS Class 12 (ELS61-E): DL max. 85.6 kbps, UL max 85.6 kbps	EDGE Class 12 data rates: DL max. 237 kbps, UL max. 237 kbps GPRS Class 12 data rates: DL max. 85.6 kbps, UL max. 85.6 kbps
		CSD data transmission up to 9.6 kbps, V.110, non-transparent
	SMS text and PDU mode	SMS text and PDU mode

Interfaces

 4G/3G/2G connectivity	 RF expansions
 Ethernet 10/100 BaseT	 GPS (optional)
 USB 2.0	 IP67 enclosure
 Up to 3x RS232	 VGA
 RS485	 1x CAN
 2x operating LEDs	 1x 1Wire
 SIM card interface 1.8V/3V	 1x mini PCIe
 2x 8A/250Vac relays	 Temperature sensor
 WiFi b/g/n	 2x DIP switch

Connectors



1x RJ45: Ethernet 10/100 BaseT



DB15: up to 3x RS232*, 1x RS485*, 1x CAN, 1x 1Wire



3x terminal block: up to 3x RS232*, 1x RS485*



2x terminal block: 2x relays



Micro SIM



3x SMA F antenna connectors: 4G/3G and other RF



1x SMA F R/P antenna connector: GPS



Micro USB connector AB Type

Processor



Powered by TQ-Components TWMa28 module:

- Freescale i.MX28 (ARM9 architecture)
- 454MHz clock CPU freq
- 128MB DDR2
- 4GB eMMC Flash
- 32KB EEPROM
- Linux kernel 3.14
- Java VM loaded

Customization



MiniPCIe socket modules available

- LTE & GPS
- HSPA+ & GPS
- 3G HSPA+ plus WiFi + bluetooth



RF module socket

- GPS receiver
- Bluetooth v2.1 EDR class 2
- Bluetooth Low Energy
- ISM 868/900MHz
- Wavenis/Coronis 25/500mW
- Wireless MBus
- Any other technology upon request

SOFTWARE FEATURES



DHCP server



PTXDist



NAT/IP firewall



Modem control via AT commands



CSD call support (only 3G)

ORDERING INFORMATION

MTX-GATEWAY **199802101**

MTX-GATEWAY-OEM **199802106**

MTX-GATEWAY-3G **199802103**

MTX-GATEWAY-LC **199802111**

MTX-GATEWAY-4G-GPS **199802104**

MTX-GATEWAY-LC-OEM **199802107**

FEATURES BY MODEL

MTX-GATEWAY							
	GATEWAY	2G	3G	4G	OEM	LC	LC-OEM
Celular modem		2G	3G	4G			
RS232/485/422 (4-wire)	1x	1x	1x	1x	1x	1x	1x
RS232 (2-wire)	2x	2x	2x	2x	2x	1x	1x
USB OTG	X	X	X	X	X	X	X
Ethernet	X	X	X	X	X	X	X
WiFi	X	X	X	X	X		
CAN 2.0B	X	X	X	X	X	X	X
1-wire	X	X	X	X	X		
Relays	2x	2x	2x	2x	2x	1x	1x
GPIO	1x	1x	1x	1x	1x	1x	1x
Internal RF module	(*1)	(*1)	(*1)	(*1)	(*1)		
GPS module	(*1)	(*1)	(*1)	(*1)	(*1)		
VGA	(*1)	(*1)	(*1)	(*1)	(*1)		

(*1): upon request