

# MTX-GTW II

## LTE/4G/3G/2G industrial IoT gateway

The MTX-GTW II is an innovative industrial gateway that comprises a complete set of wireless and wired interfaces powered by an Cortex-A7 processor module. By providing an easy integration and powerful interfaces, it avoids further hardware components.



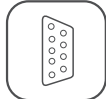
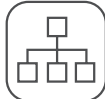










Plenty of interfaces: Ethernet, USB, RS232, RS485, GPIOs, pulse count input, etc. It can be used in infinite M2M and IoT applications. A Worldwide bands 4G/3G/2G (HSPA/UMTS/EGPRS/GSM) modem is attached internally.

Typical features that can be developed: DHCP server, NAT, CSD call manager, 4G to RS232/USB gateways, external sensor dataloggers (temperature, distance, Modbus RTUs), DynDNS/NoIP client, relay control, GSM cell positioning, remote firmware upgrade, etc.





MTX-GTW II-S supports NodeRed for the programming of IoT applications with an intuitive and easy drag-and-drop interface.



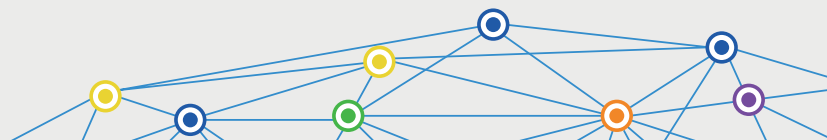
### MAIN FEATURES

- |  |   |   |   |  |   |   |
|--|---|---|---|--|---|---|
| <br>4G connectivity | <br>USB 2.0  | <br>RS232<br>RS485 | <br>Ethernet | <br>Digital inputs | <br>WiFi             | <br>DIN rail |
| <br>DHCP            | <br>Firewall | <br>CSD            | <br>Linux    | <br>AT commands    | <br>Java compatible* | <br>NodeRed  |







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

-  DC input: +8 to +30 Vdc
-  Temperature range: -40° to +85°C
-  Dimensions: 112x51x75mm
-  Weight: <500gr

Datasheet subject to changes | 2019/2  
MTX © by MATRIX ELECTRONICA S.L.U.  
SUPPORT: [iotsupport@mtx2m.com](mailto:iotsupport@mtx2m.com)  
SALES: [info@mtx2m.com](mailto:info@mtx2m.com)  
[mtx2m.com](http://mtx2m.com)



## ● HARDWARE FEATURES ●

	MTX-GTW II 4G Cat.1	MTX-GTW II 4G Cat.4	MTX-GTW II 3G
	Penta-Band LTE: 1, 3, 8, 20, 28* (700*, 800, 900, 1800, 2100 MHz), Dual-Band GSM 900 & 1800 MHz	GSM/GPRS/EDGE: 900, 1800; UMTS/HSPA+: 900, 2100; LTE: 700, 800, 900, 1800, 2100 MHz, AWS	UMTS (WCDMA/FDD): 800, 850, 900, 1900 & 2100 MHz. Quad-Band GSM: 850, 900, 1800 & 1900 MHz
	LTE Cat.1 (3GPP Release 9): DL 10.2Mbps, UL 5.2Mbps	LTE Cat.4 (3GPP Release 9): DL 150Mbps, UL 50Mbps	
		HSPA Cat.8 (3GPP Release 8): DL 7.2Mbps, UL 5.7Mbps  UMTS (3GPP Release 4): PS data rate DL 384 kbps, UL 384 kbps; CS data rate DL 64 kbps, UL 64 kbps	HSDPA Cat.8/HSUPA Cat.6: DL max. 7.2 Mbps, UL max. 5.76 Mbps
	GPRS Class 12: DL max. 85.6 kbps, UL max 85.6 kbps	GPRS Multislot Class 12; EGPRS: Multislot Class 12	EDGE Class 12: DL max. 237 kbps, UL max. 237 kbps  GPRS Class 12: DL max. 85.6 kbps, UL max. 85.6 kbps
			CSD 9.6 kbps, V.110, non-transparent
	SMS text and PDU mode	SMS text and PDU mode	SMS text and PDU mode

### Interfaces



4G/3G/2G connectivity



Ethernet 10/100 BaseT



USB 2.0 OTG



2x RS232



RS485/RS422



3x digital I/O (4x optional)



SIM card interface 1.8V/3V



4x operating LEDs



GPS (optional)



RF expansion (optional)



WiFi b/g/n



DIN rail










Up to 2x relay outputs (optional)\*




Micro SD







## Connectors

-  RJ45: Ethernet 10/100 BaseT
-  Micro USB AB Type: USB 2.0
-  DB9 F: RS232
-  DB9 M: RS232
-  Terminal block: RS485, 3x digital I/O, relay output
-  Micro SIM: SIM card interface 1.8V/3V
-  3x SMA F antenna connectors

## Processor

-  Powered by Freescale i.MX6:
  - Freescale MCIMX6G2CVM05AA (ARM cortex-A7 architecture)
  - 528MHz (up to 696MHz) clock CPU freq
  - 256MB DDR3 (up to 2GB)
  - 4G emmc Flash
  - 256MB Nand Flash (512MB) optional
  - Linux kernel 4.1.15
  - Java VM loaded
  - -40°C-85°C

## SOFTWARE FEATURES

-  DHCP server
-  NAT/IP firewall
-  CSD call support (only 3G)
-  Yocto BSP
-  Modem control via AT commands
-  Supports NodeRed programming drag-and-drop interface

## ORDERING INFORMATION

MTX-GTW II-S	<b>199802217</b>
MTX-GTW II-S-3G	<b>199802218</b>
MTX-GTW II-S-3G-GPS	<b>MOQ</b>
MTX-GTW II-S-4G C1	<b>199802220</b>
MTX-GTW II-S-4G C4	<b>199802221</b>

MTX-GTW II-SC	<b>TBD</b>
MTX-GTW II-SC-3G	<b>TBD</b>
MTX-GTW II-SC-4G C1	<b>TBD</b>
MTX-GTW II-SC-4G C4	<b>TBD</b>
MTX-GTW II-SC-3G-GPS	<b>MOQ</b>

## FEATURES BY MODEL

MTX-GTW II XXX										
	S	S-3G	S-3G-GPS	S-4G-Cat.1	S-4G-Cat.4	SI	SI-3G	SI-3G-GPS	SI-4G-Cat.1	SI-4G-Cat.4
<b>Temperature</b>	0°C to 70°C					40°C to 85°C				
<b>4G</b>				Cat.1	Cat.4				Cat.1	Cat.4
<b>3G</b>		X	X		X		X	X		X
<b>2G</b>		X	X	X	X		X	X	X	X
<b>GPS</b>	(*1)		X	(*1)	(*1)			X	(*1)	(*1)
<b>WiFi b/g/n</b>	X	X	X	X	X					
<b>Internal wireless socket</b>	X	(*1)	(*1)	X	X	X	(*1)	(*1)	X	X
<b>RS485 (2-wire)</b>	X	X	X	X	X	X	X	X	X	X
<b>RS422 (4-wire)</b>	(*1)	(*1)	(*1)	(*1)	(*1)		(*1)	(*1)	(*1)	(*1)
<b>RS232 (4-wire)</b>	2	2	2	2	2	2	2	2	2	2
<b>Eth./USB/RTC</b>	X	X	X	X	X	X	X	X	X	X
<b>External μSIM</b>		X	X	X	X		X	X	X	X
<b>Internal μSIM</b>		(*1)	(*1)	(*1)	(*1)		(*1)	(*1)	(*1)	(*1)
<b>I/O</b>	3	3	3	3	3	3	3	3	3	3
<b>Extra I/O</b>	(*1)	(*1)	(*1)	(*1)	(*1)		(*1)	(*1)	(*1)	(*1)

(\*1): upon request