# MTX-GTW II-R

## LTE/4G/3G/2G & dual Ethernet industrial IoT gateway

The MTX-GTW II-R is an innovative industrial gateway that comprises a complete set of wireless and wired interfaces including two Ethernet ports, as well as featuring rugged connectors more resistant to vibrations and IEC 6 1076-2-101/104 compliant.

Plenty of interfaces: Ethernet, USB, RS232, RS485, pulse count input, etc. It can be used in infinite M2M and IoT applications. A Wordwide 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.
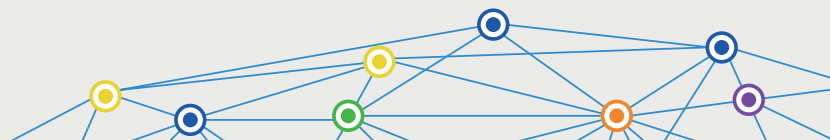
## MAIN FEATURES

| | | | | | | |
|---|---|---|---|---|---|---|
| 4G 3G/2G | RS232/ | CAN | Dual | WiFi | DIN Rail | Rugged |
| Optional modem | RS232/RS485 | CAN | Dual Ethernet | WiFi | DIN rail | Rugged connectors |
| Linux | AT commands | Java compatible* | Firewall | | | |

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

⚡ DC input: +9 to +36 Vdc
🌡 Temperature range: -40º to +85ºC
⌁ Dimensions: 113.1x40x60

CE FC PTCRB AT&T RoHS Compliant ISO 9001

# HARDWARE FEATURES

## OPTIONAL miniPCIe SPECIFICATIONS

| | MTX-GTW II-R 4G | MTX-GTW II-R 3G |
|---|---|---|
| | Penta-Band LTE: Bands 1, 3, 8, 20, 28* (700*, 800, 900, 1800, 2100 MHz), Dual-Band GSM 900 & 1800 MHz | UMTS/HSPA+: five band (800, 850, 900, 1900, 2100MHz), GSM/GPRS/EDGE quad band (850, 900, 1800, 1900MHz) |
| 4G | LTE Cat.1 (3GPP Release 9): DL 10.2Mbps, UL 5.2Mbps | |
| 3G | HSPA: DL 7.2Mbps, UL 5.7Mbps<br>UMTS PS: DL 384Mbps, UL 384 Mbps, CS: DL 64Mbps, UL 64Mbps | HSPA (3GPP release 6, 7): DL 7.2Mbps, UL 5.7Mbps; HSDPA Cat.8/HSUPA Cat.6 data rates; compressed mode (CM) according to 3GPP TS25.212<br><br>UMTS (3GPP release 4): PS data rate 384kbps DL, UL 384kbps; CS data rate 64kbps DL, UL 64kbps |
| 2G | GPRS Class 12: DL max. 85.6 kbps, UL max 85.6 kbps | GPRS: GPRS class 12; mobile station class B; PBCCH support; coding schemes CS 1-4<br>EGPRS: multislot class 12; EDGE E2 power class for 8PSK |
| CSD | | CSD data transmission: up to 9.6kbps; V.110; non-transparent mode |
| SMS | SMS text and PDU mode | SMS text and PDU mode |

## Interfaces

- 4G 3G/2G — 4G/3G/2G connectivity (optional)
- 2x Ethernet 10/100 BaseT
- USB 2.0 OTG
- 2x RS232
- 2x CAN
- 1x RS485
- 2x operating LEDs
- WiFi 802.11 b/g/n (optional)

- DIN Rail — Rail DIN
- Rugged connectors
- SIM card interface 1.8/3V
- 2x configuration switches
- Mini PCIe
- GPS (optional)

## Connectors

- 2x RJ45: Ethernet 10/100 BaseT

- USB A-type: USB 2.0

- 3x M8 rugged connectos: 2x RS232, 1x RS485, 2x CAN

- Micro SIM

- 3x SMA F antenna connectors: 2x 4G/3G, 1x WiFi (optional)

## Processor

NXP i.MX287 ARM9:

- 450Mhz clock CPU freq.

- 128MB RAM

- 8GB eMMC Flash

- Temp. -25ºC to +85ºC

- Linux Kernel 3.14.19

- Java VM loaded

## ● SOFTWARE FEATURES ●

- DHCP server

- NAT/IP firewall

- CSD call support

- Linux PTXdist BSP

- Modem control via AT commands

## ● ORDERING INFORMATION ●

| MTX-GTW II-R | 199802303 |
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