

## MTX-LTE Terminal

Industrial featured M2M modems for LTE

Coming soon  
Proto. Jun..13  
Prod. Sep. 13



LTE CAT3:  
5 bands  
850/900/1900/AWS/2100  
MHz

Quad-band HSPA+/UMTS  
850/900/1900/2100MHz

1 RS232  
port

USB port

GPIO, I2C/SPI TBD

GPRS

Integrated TCP/IP Stack

Automatic restart after  
shutdown

Windows, Linux, Android  
Drivers

### MTX-LTE TERMINAL

The MTX-LTE terminal is new industrial M2M family modem ready to work in 4G-LTE and CDMA or 3G-HSPA+ network especially designed if you application need high speed data transmission and low latency.

MTX-LTE family:

- LTE
  - European Quad-band DC-HSPA+/HSPA+/HSPA/UMTS 850/900/1900/2100MHz
  - North America Penta-band DC-HSPA+/HSPA+/HSPA/UMTS 850/900/1900/AWS/2100MHz
  - CAT3 3GPP Release 8 UE DL 100Mbps, UL 50Mbps
- CDMA/EVDO 800/1900MHz
- 3G/UMTS
  - Quad-band HSPA+/UMTS 850/900/1900/2100MHz
  - HSPA+ :UL (5.76 Mbps)/DL (42 Mbps)
- Quad-band EDGE/ GPRS/
  - Multi-slot Class 12

Industrial featured: The MTX-LTE unit can be used in industrial applications. Temperature range: -30 + 75°C. External interfaces USB and serial RS232 port\*. Linux, Android and Windows drivers available. Control by AT commands. GPS receiver featured: GPS, AGPS, GLONASS.

MTX-LTE features power restart in case of power faulty conditions.

The MTX-LTE terminal is an all-in-one solution enabling voice, SMS, fax and data at high speed LTE. IP Stack support IPV4 – IPV6If 4G-LTE is not available, will switch to 3G or 2G automatically.

MTX-LTE is RoHs & WEEE compliant. It is manufactured with the ISO 9001 & ISO 14001 Quality certifications. A full list of antennas, cables and supplies accessories are available.

### General features:

- World Wide Version:  
UMTS/HSPA+: Five band 800/850/900/1900/2100MHz  
GSM/GPRS/EDGE: Quad band 850/900/1800/1900MHz
- European Version:  
UMTS/HSPA+: Dual band UMTS 900/2100MHz  
GSM/GPRS/EDGE: Dual band GSM 900/1800MHz
- American Version:  
GSM/GPRS/EDGE: Dual band GSM 850/1900MHz  
UMTS/HSPA+: Dual band UMTS 850/1900MHz
- 3GPP Release 6, 7  
DL 7.2Mbps, UL 5.7Mbps  
HSDPA Cat.8 / HSUPA Cat.6 data rates
- Control via AT commands  
(Hayes 3GPP TS 27.007 and 27.005)
- SIM Application Toolkit (release 99)
- TCP/IP stack access via AT commands TBD
- Supply voltage range: 6 ... 30 V
- Power modes
  - Power down
  - Sleep mode
  - Idle mode
  - Airplane mode
- Temperature range
  - Operation: -30°C to +85°C
  - Extended\*: -40°C to +90°C
- Dimensions. Excluding connectors: 78,1 x 66,8 x 37,2 mm
- Weight: < 190 g

### Interfaces:

- DB9 DSUB: RS232 8-Wire modem interface TBD
- USB 2.0 port High Speed (480Mbit/s)
- Operating status LED
- SIM card interface 3 V, 1.8 V
- Audio interface RJ connector
- Plug-in RJ power supply
- FME M 50 Ohm antenna connector

### MODELS

#### MTX-LTE+GPS

GPS featured

#### MTX-HSPA+/CMDA

3G/HSPA and CMDA EVDO network. GPS

#### MTX-CDMA

Only CDMA network

#### MTX-HSPA+

Only 3g HSPA+ network

Worldwide and local country variants available

### LTE (FDD) B1/B2/B3/B5/B7/B8/B20

- Receive diversity DC-HSPA+/HSPA+/HSPA/UMTS 2100/1900/900/850 MHz
- MIMO HSPA+/DC-HSPA+ DL 2\*2 MIMO LTE: DL 2\*2 MIMO
- Max. transmitter power WCDMA/HSPA+: +24dBm (Power Class 3) GSM/GPRS 1900MHz/1800MHz: +30dBm (Power Class 1) GSM/GPRS 900M/850MHz: +33dBm (Power Class 4) EDGE 1900MHz/1800MHz: +26dBm (Power Class E2) EDGE 900M/850MHz: +27dBm (Power Class E2) LTE: Accorded with 3GPP TS 36.101 R8 Class 3(23dBm)
- Control via AT commands 3GPP TS 27.007 and 27.005
- IP Stack support IPv4 / IPv6
- GPS Standalone, A-GPS, GPS

### HSPA features 3GPP Release 6, 7

- DL 7.2Mbps, UL 5.7Mbps
- HSDPA Cat.8 / HSUPA Cat.6 data rates
- Compressed mode (CM) supported according to 3GPP TS25.212

### UMTS features 3GPP Release 4

- PS data rate – 384 kbps DL / 384 kbps UL
- CS data rate – 64 kbps DL / 64 kbps UL

### GPRS/EGPRS features:

GPRS class 12

- Mobile station class B
- PBCCH support
- Coding schemes CS 1-4

EGPRS:

- Multislot Class 12
- EDGE E2 power class for 8 PSK

CSD:

- V.110, RLP, non-transparent
- 9.6kbps
- USSD

### SMS Features:

- Point-to-point MO and MT
- SMS cell broadcast
- Text and PDU mode

### MTX-TERMINALS

C/ Alejandro Sanchez, 109  
28019 – Madrid- Spain  
Tel. +34 91 5602737  
Fax. +34 91 5652865  
[www.MTX-Terminals.com](http://www.MTX-Terminals.com)  
[gsm-support@matrix.es](mailto:gsm-support@matrix.es)