



Ideal Use Case

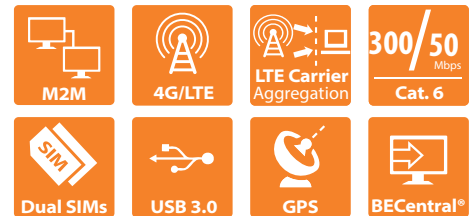
- Industrial Applications
- Kiosk and Vending
- Digital Signage
- Embedded Systems
- OEM Design Applications
- Smart Energy
- Remote Connectivity
- Modular Connectivity on BEC Multi-WAN Routers

Industrial 4G/LTE USB Modem

The BEC MX-100U 4G/LTE Industrial Modem is a rugged, ultra-compact 4G/LTE Modem for Enterprise and IoT/M2M Applications that require secure, always-on LTE connectivity. Designed to accelerate application development and service deployments, lower total cost of ownership (TCO) providing faster ROI, the BEC MX-100U is the perfect balance of performance, ruggedness, reliability, price and secure wireless connectivity for business-critical operations.

The MX-100U is a CAT 6 device supporting LTE Advanced and Carrier Aggregation with Dual SIM slots, Active GPS, external antennas and a USB 3.0 interface. The lightweight yet hardened design is built with Industrial-Grade components and has an IP-50 rating for protection against harmful dust particles.

Customers have the option for standalone operation via direct connection to a USB host device or as a modular cellular WAN expansion for BEC's MXConnect Multi-WAN Edge routers (MX-600 and MX-1200).



SPECIFICATIONS

Technology

- Supporting North America and Global
 - FDD(Cat.6): B1-B5, B7, B8, B12, B13, B20, B25, B26, B29, B30, B41
 - Max. Downlink/Uplink: 300/50Mbps
 - DC-HSPA+: B1, B2, B3, B4, B5, B8
 - Max. Downlink/Uplink: 42/5.76Mbps
- Support Carrier Aggregation
- Channel Bandwidth
 - 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
- RF Characteristics
 - Transmit Power: 22~ 23dBm ± 1dB
 - Sensitivity (Primary): -95.5 ~ -99dBm
 - Sensitivity (Secondary): -95.5~ -99dBm
- GPS(GNSS) Support with NMEA Protocol
- Regulatory: FCC, PTCRB

Hardware

- USB 3.0 Type A Receptacle
- SMA Antenna Connectors
 - 2 * LTE
 - 1 * GPS
- 2* 2FF MINI SIM Slot
- Power: USB Powered by a Host
- Dimensions
 - 3.94"(W) x 3.15"(H) x 0.83"(D)
 - (100mm x 80 mm x 21 mm)
- Operating temperature
 - 40° to 140° F (-40° to 60° C)

Carrier Certification:



KEY FEATURES

- + Offers 4G/LTE Cellular Connectivity with Single Radio / Dual SIMs
- + Cellular WAN for BEC Multi-WAN Routers (MX-600 & MX-1200)
- + Offer GPS option for 24/7 real-time tracking and location updating
- + Small form factor M2M with affordable price
- + Simplify deployment and easy installation by a single person
- + IP50 Hardened enclosure with Industrial-graded Components
- + BECentral® (BEC's Cloud Based Remote Management)
- + USB 3.0 connection for the physical interface and power

