



Ideal Use Cases

- Industrial Applications
- Kiosk / Vending / Digital Signage
- Embedded Systems
- Smart Energy
- Remote Connectivity

The BEC MX-100UG is a rugged, ultra-compact Gigabit LTE Modem for Enterprise, Industrial and IoT/M2M applications that require secure, always-on LTE connectivity. The hardware platform is designed to accelerate application development and service deployments, lower total ownership (TCO), and faster ROI. The MX-100UG is a CAT 18 device supporting Carrier Aggregation (CA) up to 5 carriers DL with dual SIM slots, Active GPS, 4x4 MIMO antenna technology, 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 cellular WAN expansion for BEC's MXConnect multi-wan routers. The BEC MX-100UG is the perfect balance of performance, ruggedness, reliability, price, and secure wireless connectivity for business-critical operations.



Specification

Supporting North America and Global

- Bands: 1, 2(25), 3, 4(66), 5(26), 7, 8, 12(17), 13, 14, 20, 28, 29, 30, 32, 38, 39, 40, 41, 42, 46(LAA), 48, 71
- Downlink/Uplink: 1.2 Gbps / 150 Mbps
- Carrier Aggregation: 5CA DL/ 2CA UL

RF Characteristics

- Transmit Power: 23 ± 2dBm
- Modulation: 256QAM DL / 64QAM UL
- MIMO: 4x4

GNSS/GPS

- Active (NMEA Format)

Regulatory

- FCC, PTCRB, Part 96 EUD

Hardware Interface

- Dual SIM Slots (SIM Size: 2FF MINI)
- USB 3.0 Type A Receptacle
- 4x SMA Antenna Connectors
- 1x SMA GPS Antenna Connector

Dimensions

3.94 x 3.15 x 0.83 in (100 x 80 x 21 mm)

Application Diagram

