MX-100U 5G
5G Industrial Modular Modem

BEC *by BILLION*

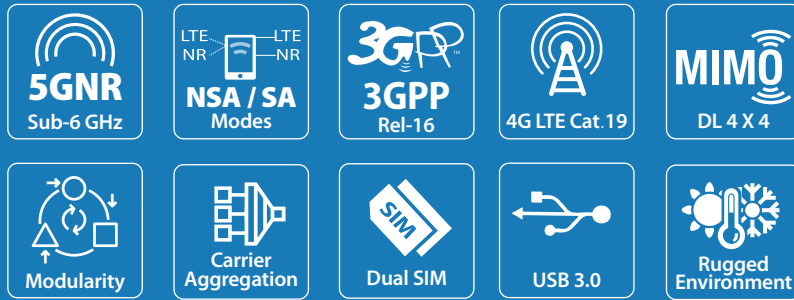|					
5GNR Sub-6 GHz	**NSA / SA** Modes	**3GPP** Rel-16	4G LTE Cat.19	**MIMO** DL 4 X 4	
Modularity	Carrier Aggregation	Dual SIM	USB 3.0	Rugged Environment	

Ideal Use Cases

- Industrial Applications
- Private Networks
- IoT / M2M
- Smart Energy
- Kiosk / Vending / Digital Signage
- Remote Connectivity
- Modular WAN on BEC Multi-Service Routers

The MX-100U 5G is a rugged, ultra-compact 5G modem that delivers ultra-high data speeds, low latency, extreme capacity, and unmatched coverage for a broad range of market segments, including, Enterprise, Industrial, and Energy, among others. The MX-100U 5G is 3GPP Release 16 compliant, supporting global 5G bands across both SA/NSA modes, sub-6 GHz carrier aggregation, LTE CAT 19, 4x4 MIMO antenna technology, dual SIM for carrier diversity.

The MX-100U 5G provides the added benefit of standalone operation via a USB 3.0 host or as a modular cellular WAN expansion for Multi-Service Business Gateways. (MX-600 and MX-1200). Customer can accelerate application development and service deployments while lowering total cost of ownership (TCO) resultiing in faster ROI.

Specification

Global Band Support
- 5G Frequency Bands (SA / NSA)
n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n38, n40, n41, n48, n66, n70, n71, n75, n76, n77, n78, n79

- LTE Frequency Bands (FDD / TDD)
1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 18, 19, 20, 25, 26, 28, 29, 30, 32, 34, 38, 39, 40, 41, 42, 43, 46, 48, 66, 71

Peak Data Rates
- 5G SA sub-6 GHz::   DL 2.4 Gbps; 900 Mbps UL
- 5G NSA sub-6 GHz: DL 3.4 Gbps; 550 Mbps UL
- LTE (CAT 19):   DL 1.6 Gbps; 200 Mbps UL

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

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

Dimensions
- 4.34 x 3.19 x 0.85 in (110.3 x 81.1 x 21.7 mm)

Operating Temperature
- 40° to 140° F (- 40° to 60° C)

Power Consumption
5W (nominal), 8W (max.)

Regulatory
- 3GPP Release 16, FCC, CE

Application Diagram

Plug-in

3.0 USB Cable (male-to-male)

MX-600   MX-1200   Laptop   Embedded System   Server, Kiosk, Vending, OEM Design Applications, and more.