



Overview

The BEC MX-200 Advanced Industrial 4G/LTE Router is a high performance fixed wireless platform enabling real-time 4G Cellular data connectivity for your existing serial devices and Ethernet network. The MX-200 provides a reliable and cost-effective alternative solution for business continuity. The platform can served as the primary connection or backup connection when wired connections fail are unavailable or non-existent.

The MX-200 features two Gigabit Ethernet interfaces and a RS-232 Serial interface enabling wireless data connectivity for a broad range of applications and vertical machine-to-machine (M2M) market segments. Intelligent software supports configurable LAN/WAN options, embedded GPS with concurrent multi-GNSS engine for GPS or GLONASS as well as embedded LTE module, and enterprise level functionality such as: advanced security mechanisms, Quality of Service (QoS), SPI firewall, integrated VPN, auto failover for unparalleled uptime and network redundancy, and cloud-based management to extend visibility and control of devices remotely.

Real-time monitoring, management and control of devices is critical for M2M applications. The BEC LCMS (LTE Central Management System) is a comprehensive device management platform designed to minimize deployment, lower support expenses and maximize the operational efficiency and profitability of the operator. The LCMS provides access to critical information for LTE Network diagnostics and troubleshooting such as: signal quality measurements (RSSI, RSRP, RSRQ and SINR), network status/APN, location ID and Cell ID. Additional functions, including OTA firmware upgrades (individual or batch), LAN, and WAN setting configuration, are also available in the LCMS.

Designed for continuous operation in harsh environments, the MX-200 supports an extended operating temperature range from -4 to 140° F (-20 to 60° C) and a flexible input voltage range of 8-56V DC making it suitable for diverse environments and applications. To enable simple, reliable and efficient integration the ultra-compact, lightweight and low profile design incorporates highly flexible mounting options to ensure that the device and can be easily mounted discretely anywhere.

The MX-200 delivers a lower "total cost of ownership" for ensuring 24x7 operation, secure and robust wireless Data connectivity. It is the ideal solution for Digital signage, Remote surveillance, Vending Machines, Retail Point-of-Sales (PoS), Remote patient care/maintenance services, SCADA, Metering applications and much more.







Back

MXConnect Series Advanced Industrial 4G/LTE Wireless Router

BEC MX-200



High performance & reliability and easy to manage and access

- Offers 4G/LTE and/or Ethernet IP broadband connectivity. (3G Fallback is optional)
- Automatic failover for network resilience
 and reliable connectivity
- SX Antenna Technology for increased coverage, signal reception and efficiency
- Embedded GPS option for real-time asset tracking and location data-based application
- Advanced VPN & Tunneling Protocols for secure data
- Local and Remote management via SNMP or BEC LCMS (LTE Central Management System) (cloud based)
- BEC SiteSmart Mobile Application for easy access/status in the palm of your hand

QoS (Quality of Service)

- Traffic Prioritization
 Enhanced IGMP, Proxy/Snooping and
- Fast Leave

Ultra-Compact and Lightweight Design

- Small form factor M2M with affordable priceFits in the palm on your hand
- Simplified deployments, easily mounted discretely anywhere

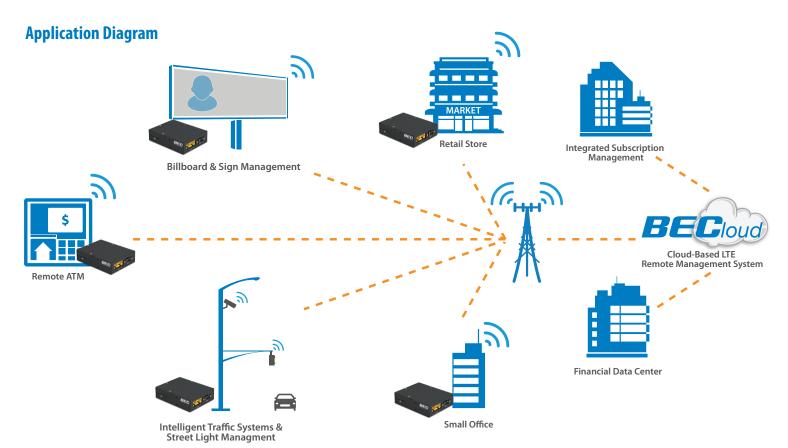
Designed for Industrial Environments

- Hardened enclosure with Industrial-Graded
 Components
- Extended Temperature Range
- Flexible Input Voltage selection



Right Side

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Features & Specifications

Availability and Resilience

- Dual-WAN Interfaces
- Auto fail-over and failback

Supported Frequency Bands

- LTE: 700/800/900/2100/2600MHz (Depending on module configuration)
- UMTS/HSPA+: B1, B2, B4, B5, B8
- CDMA 1xRTT/EV-DO Rev A: BC0, BC1, BC10
- GSM/GPRS/EDGE (850/900/1800/1900)
- Peak downlink speeds up to 100Mbps and
- peak uplink speeds up to 50Mbps • Receive equalizer with antenna diversity on the 800, 850, 900, 1900, 2100 MHz, and AWS(1700/2100 MHz) bands
- Web-based GUI for Configuration and Management Center

Network Protocols and Features

- IPv4, IPv6, IPv4 / IPv6 dual stack*
- IP Tunnel IPv6 in IPv4 (6RD)*
- IP Tunnel IPv4 in IPv6 (DS-Lite)*
- NAT, static routing and RIP-1/2
- Universal Plug and Play (UPnP) compliant
- Dynamic Domain Name System (DDNS) Virtual server and DMZ
- SNTP, DNS relay, IGMP proxy and IGMP
- snooping for video service MLD proxy and MLD snooping for video
- service Supports port-based Virtual LAN (VLAN)
- **Quality of Service Control**
- Traffic prioritization based-on IP protocol, port number, and IP address

Firewall

- Built-in NAT Firewall
- Stateful Packet Inspection (SPI)
- Prevents DoS attacks including Land Attack, Ping of Death, etc.
- Access Control
- IP Filtering, MAC Filtering, URL Filtering
- Password protection for system management
- VPN Passthrough

VPN (Optional)

- IPSec VPN Tunneling (up to 8 tunnels) • PPTP VPN Tunneling (up to 4 dial-in/dial-out
- tunnels) • L2TP over IPSec VPN Tunneling (up to 4
- dial-in/dial-out tunnel)
- GRE (up to 8 tunnels)
- Embedded PPTP / L2TP / IPSec Client and Server
- IKE Key Management
- MPPE Encyption for PPTP
- IPsec DES, 3DES and AES encyption

Management

- Quick Installation Wizard
- Web-based GUI for remote and local management
- Firmware upgrade and configuration data upload and download via web-based GUI
- Supports DHCP server/client/relay • TR-069 supports remote management
- Support SNMP Syslog monitoring

• GPS: One (1) detachable antenna • WAN: 3G/4G LTE (and/or ETH WAN Optional) • RS-232 (DCE, DB-9): one (1) port

Hardware Specifications

• Ethernet LAN: 2-port 10/100/1000Mbps

• 3G/4G LTE: Two(2) detachable antennas

- auto-crossover (MDI/ MDI-X) switch • SIM Card: One (1) slot
- Reset Button

Physical Interface

- Power Connector: 4-pin connectors
- LED Indicators
 - Power Internet
 - LTE
 - Ethernet

Power Specifications

• Input: DC 9V~56V

Physical Requirements

• Dimensions: 4.29"(W) x 1.17"(H) x 3.43"(D) (109mm x 29.7 mm x 87 mm)

Operating Environment

- Operating temperature: -4 to 140° F (-20 to 60° C)
- Humidity: 20 ~ 95% non-condensing

* future release