MX-210NP

Mini 4G LTE Wireless VPN Router

MX-210NP - Mini 4G LTE Wireless VPN Router

Billion MX-210NP Mini 4G LTE Wireless VPN Router is a compact, affordable and high-performance fixed 4G LTE VPN Router with flexible options for multi-WAN failover with assigned specific interface for uninterrupted Internet services, multiple power supply methods for safe & quick power installation via DC power or LAN/PoE-PD ports, secure network connection and smooth out traffic burst to ensure no drops on latency-sensitive application and data with Firewall and QoS capabilities to provide a reliable and cost-effective alternative solution for business continuity.

4G LTE Mobility

With 4G LTE-based Internet connection (embedded 4G LTE module), users can access the Internet while sitting on anywhere.

Automatic Failover/Failback between Multi-WAN Interface

Uniquely embedded with 4G LTE, Gigabit EWAN and Wireless Client WAN interfaces, MX-210NP ensures a seamless Internet connectivity by featuring superior Failover/Failback functionality between GbE WAN, 4G LTE or Wireless Client WAN. Either wired or wireless connection can be set up as primary or backup WAN port. When the main WAN interface fails, the secondary WAN interface will automatically back up the connection to ensure an always-on connectivity.

Wi-Fi Hotspot

The MX-210NP supports 802.11n WLAN, allowing for Wi-Fi Hotspot functionality anywhere there is cellular signal. The captive portal enables highly secure connectivity with multiple authentication options and extensive controls for access and bandwidth management. Customization options allow for operator logos, branding or advertisement placement.

Secured VPN connection

Supporting comprehensive and robust VPN (Virtual Private Network) protocols including IPSec, OpenVPN, GRE, PPTP, L2TP, MX210-NP allows users can establish private and encrypted data transmission tunnels over the public Internet between headquarter and branch offices. With a built-in DES/3DES VPN accelerator, MX210-NP dramatically enhances IPSec VPN performance.

Multiple Power Supply Methods

Support DC power input and PoE PD, flexible fits installation environment. Easy Installation is realized with integrated IEEE 802.3at Power over Ethernet (PoE) support, eliminating the need for separate power and data cables.

High Performance

- High speed 4G LTE module*1
- Gigabit Ethernet WAN and LAN

High Availability

- Fully supports for multiple 4G LTE frequency bands*1
- Multi-WAN interfaces - 4G LTE, GbE WAN and Wireless Client WAN
- Wi-Fi Hotspot with Captive Portal

Always-On Internet Service

- Automatic carrier or wireline failover & failback

Secure VPN Connections

- Embedded IPSec, GRE, OpenVPN, PPTP, L2TP with powerful encryption

IPv6 Support

- IPv4, IPv6, IPv4/ IPv6 dual stack*2

Power Source

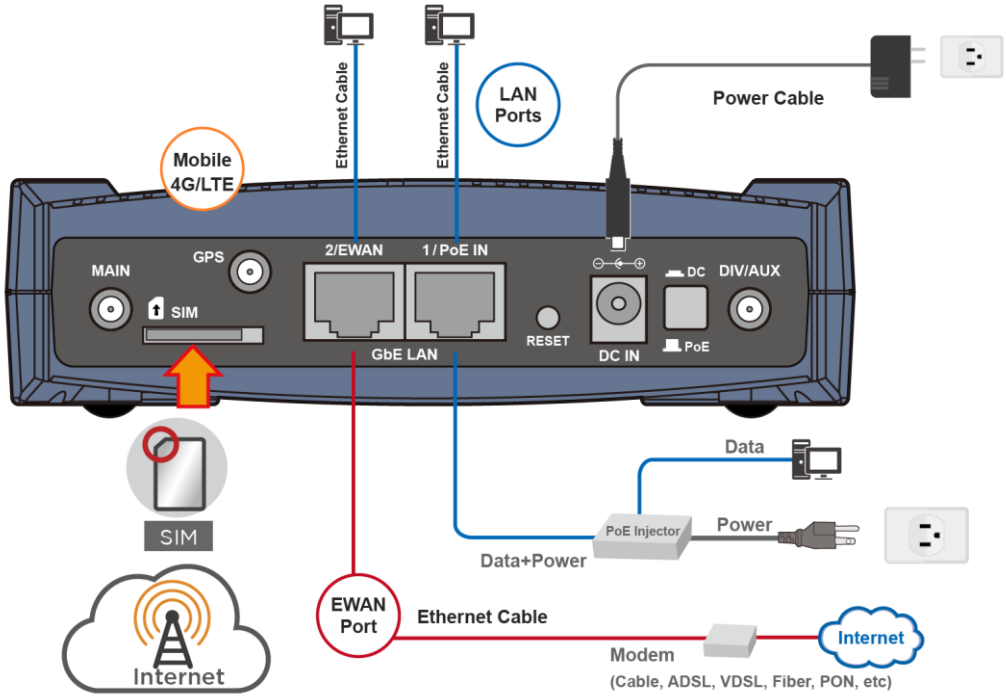
- DC
- PoE

Ultra-Compact and Lightweight Design

- Small form factor 4G LTE Router
- Fits in the palm on your hand

Ideal for SOHO, office, and home users

Application Diagram



Features & Specifications

Availability and Resilience

- Multi-WAN Interfaces
  - 4G LTE
  - GbE WAN
  - Wireless Client WAN

Embedded 4G LTE*1

- 3GPP Rel.11 Cat 4
- Supported frequency bands:
  LTE FDD: B1, B3, B7, B8, B20, B28A
  LTE TDD: B38, B40, B41
  WCDMA: 2100MHz, 900MHz
  GSM: 1800MHz, 900MHz
- Supported data rate:
  LTE FDD: 150Mbps(DL) / 50Mbps(UL)
  LTE TDD: 130Mbps(DL) / 30Mbps(UL)
- LTE Downlink MIMO support

Network Protocols and Features

- Dual WAN Failover/ Failback
- Dual WAN Load Balancing
- IPv4, IPv6, IPv4/IPv6 dual stack*2
- Dual APN*2
- Keep Alive
- IP Pass-Through
- NAT, Virtual Server and DMZ
- Static Routing, Dynamic Routing (RIP v1/v2, OSPF, BGP)
- SNTP, DNS relay and DDNS
- Universal Plug and Play (UPnP) compliant
- Supports DHCP server/ client/ relay

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

Wireless LAN

- Compliant with IEEE 802.11n standard
- Up to 300Mbps wireless operation rate
- WPS (Wi-Fi Protected Setup) for easy setup
- 64/128 bits WEP supported for encryption
- Wireless security with WPA, WPA2, WPA/WAP2
- Multiple SSID (4 SSIDs), BSSID
- Wireless MAC Filtering
- Wireless Client Isolation
- Wi-Fi Hotspot with Captive Portal
- Support RADIUS authentication
- Wireless Client rate-limiting

Virtual Private Network

- IPSec
- PPTP
- L2TP
- GRE
- OpenVPN

Quality of Service Control

- Bandwidth Limited
- Bandwidth Guaranteed

Global Navigation Satellite System (GNSS)*3

- Embedded multi-GNSS engine for GPS or GLONASS system

Management

- Password protection for system management
- Quick installation wizard
- Web-based GUI for remote and local management
- Firmware upgrades and configuration data upload and download via Web-based GUI
- TR-069 (CWMP)*2, SNMP
- Cellular Data Usage Allowance
- Syslog monitoring
- Scheduling Auto-Reboot
- Physical layer/protocol diagnostic test tool
- BECentral® Cloud-Based Remote Management

Hardware Specifications

Physical Interface

- Two (2) detachable high performance 4G LTE antennas
- One (1) detachable active GPS antenna (option)*3
- Two (2) Gigabit Ethernet auto-crossover (MDI/MDI-X) switch
  - 2 x Versatile Port
    : LAN1 / PoE-PD
    : LAN2 / EWAN
- One (1) 2FF mini-SIM slot
- Factory default reset button
- Power jack for DC input
- Power switch button (DC / PoE)

Physical Specifications

- Dimensions: 132 mm x 35 mm x 94 mm

Power Requirements

- DC power input: 12V DC, 1.2A
- PoE-PD (802.3at PD complaint)

Operating Environment

- Operating temperature: 0°C ~ 40 °C
- Storage temperature: -20°C ~ 70 °C
- Humidity: 20% - 95% non-condensing

Notes:

1. The 4G LTE is dependent on your local service provider.
2. Only upon request for Telco/ ISP tender projects.
3. The support for GPS and/or GLONASS functions depends on the equipped module's capabilities.
4. Specifications in this datasheet are subject to change without prior notice.

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