MX-221P

4G LTE Triple-SIM VPN Router

MX-221P - 4G LTE Triple-SIM VPN Router

MX-221P 4G LTE Triple-SIM VPN Router is a compact, affordable and high-performance fixed 4G LTE VPN Router with flexible options for multi-SIM or multi-WAN failover with assigned specific interface for uninterrupted Internet services, priority or conditional failover among mobile carriers, 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.

Single Radio/ Triple-SIM
The Triple-SIM provides failover feature to keep Internet connectivity if SIM loses connectivity.

Automatic Failover/Failback between 4G LTE and Gigabit EWAN
Uniquely embedded with 4G LTE and Gigabit EWAN interfaces, MX-221P ensures a seamless Internet connectivity by featuring superior Failover/Failback functionality between GbE WAN and 4G LTE. 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.

Secured VPN connection
Supporting comprehensive and robust VPN (Virtual Private Network) protocols including IPSec, OpenVPN, GRE, PPTP, L2TP, MX-221P 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, MX-221P 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]
- Dual-WAN interfaces - 4G LTE and Gigabit EWAN
- Single Radio/ Triple-SIM

Always-On Internet Service
- Automatic carrier or wireline failover & failback
- Automatic carrier-to-carrier failover

Secure VPN Connections
- Embedded IPSec, GRE, OpenVPN, PPTP, L2TP with powerful encryption

IPv6 Support
- IPv4, IPv6, IPv4/ IPv6 dual stack[2]
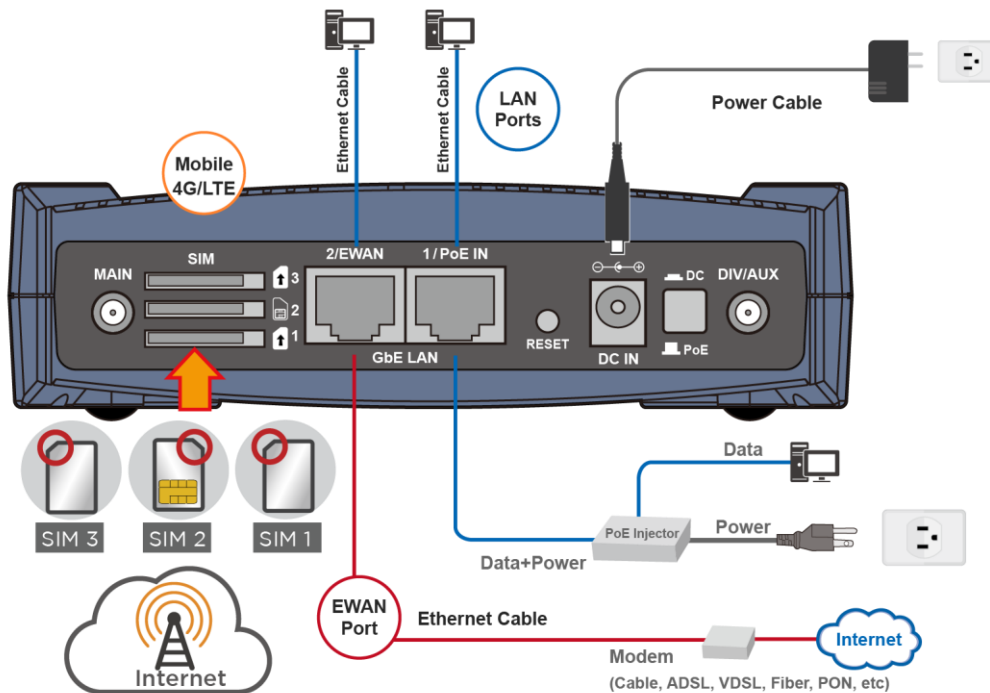
Power Source
- DC
- PoE

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
• Triple SIM
• Dual-WAN Interfaces (4G LTE, GbE WAN)

Embedded 4G LTE
• 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
• Triple-SIM Failover
• 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

Virtual Private Network
• IPSec
• PPTP
• L2TP
• GRE
• OpenVPN

Quality of Service Control
• Bandwidth Limited
• Bandwidth Guaranteed

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
• Two (2) Gigabit Ethernet auto-crossover (MDI/MDI-X) switch
  - 2 x Versatile Port
    : LAN1 / PoE-PD
    : LAN2 / EWAN
• Three (3) 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. Specifications in this datasheet are subject to change without prior notice.

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