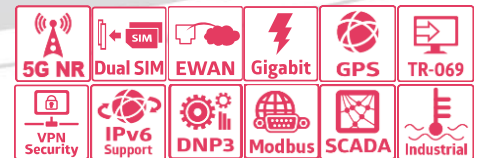




# MX-220 5G

Advanced Industrial 5G Router



## MX-220 5G – Advanced Industrial 5G Router

### Features & Specifications

#### ■ Availability and Resilience

- Dual SIMs (Dual SIM Single Standby)
- Dual-WAN Interfaces (5G NR, GbE WAN)

#### ■ Embedded 5G NR sub-6GHz\*1

- 5G NR sub-6 GHz (3GPP Rel-16)
  - Band(NA/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
  - Carrier Aggregation: sub-6 GHz (FDD+FDD, TDD+TDD, FDD+TDD 2CA)
  - Maximum Transmission Data Rate:
    - NSA: 3.4Gbps DL / 550Mbps UL
    - SA: 2.4Gbps DL / 900Mbps UL
- 4G LTE (CAT 19 DL / CAT 18 UL)
  - Band(FDD/TDD): 1, 2, 3, 4(66), 5(18,19,26), 7, 8, 12(17), 13, 14,20, 25, 26, 28, 29, 30, 32, 34, 38, 39, 40, 41, 42, 43, 46(LAA), 48, 71
  - Carrier Aggregation: 5CA DL / 2CA UL
  - Maximum Transmission Data Rate:
    - 1.6Gbps DL / 200Mbps UL

#### ■ 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

#### ■ Virtual Private Network (VPN)

- IPSec
- PPTP
- L2TP
- GRE
- OpenVPN

#### ■ 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
- VPN Pass-through

#### ■ Serial Port (RS-232/ RS-422/ RS-485)

- DTE
- RS-232/ RS-422/ RS-485
- Modbus/TCP, Telnet Server, SSH Server, UDP Server/ Client, TCP Server/ Client
- DNP3/TCP

#### ■ Digital I/O

- Alarm I/O

#### ■ Global Navigation Satellite System (GNSS)\*3

- Embedded multi-GNSS engine for GPS or GLONASS system

#### ■ Management

- Password protection for system management
- Web-based GUI for remote and local management
- Firmware upgrade and configuration data upload and download via web-based GUI
- CWMP(TR-069)\*2, SNMP
- Cellular data usage allowance
- Remote System Log monitoring
- Scheduling Auto-Reboot
- Physical layer/protocol diagnostic test tool
- BECentral® Cloud-Based Remote Management

#### ■ Hardware Specifications

##### Physical Interface

- WAN: 5G NR (and/or GbE WAN)
- Ethernet LAN: 10/100/1000Mbps auto-crossover
- Serial Port: RS232/ RS422/ RS485
- Digital Input: 1x2 terminal block
- Console: 1x3 terminal block
- eSIM: Embedded eSIM\*2
- SIM Slot: mini-SIM(2FF)
- Power Connector: 1x3 terminal block
- LED Indicators: Power(System), Internet, WWAN
- Antenna: 5G NR detachable wideband antennas

##### External Connector

- 5G NR Antenna: SMA x four (4)
- Gigabits Ethernet: RJ-45 x two (2)
- Serial: DB9 Male x two (2)
- Digital Input: 1x2 terminal block x one (1)
- Console: 1x3 terminal block x one (1)
- SIM Slot: mini-SIM(2FF) slot with cover x two (2)
- Power Connector: 1x3 terminal block

##### Power Specifications

- Power Input: DC 10V~56V

##### Physical Specifications

- Dimensions: 125 x 98 x 43 mm (without antenna connector protrusion included)

##### IP Rating

- IP30

##### Operating Requirements

- Operating: -40°C to 60°C
- Humidity: 20 ~ 95% non-condensing

#### Notes:

1. The 5G NR/ 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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