



Industrial 5G NR DIN-Rail Router

D5G-8459

FEATURES

- **5G NR Mobile Network:** Supports 5G NR Sub-6 NSA, 5G NR Sub-6 SA, LTE-FDD, LTE-TDD, LTE-LAA, and WCDMA
- **Reliable Failover:** Automatic failover between 5G NR and wired Ethernet
- **Power Redundancy:** Dual-DC power inputs ensure stable and reliable network service
- **Wide Temperature Range:** Operates in temperature ranges from -20°C to 70°C, suitable for extreme environments
- **Best Compatibility and Performance:** Equipped with a Qualcomm solution and backward compatible with 4G and 3G networks
- **Powerful Management Features:** Supports essential network management features for business users to optimize the network performance
- **Plug-and-Play, Flexible Deployment:** Equipped with wall-mounted and DIN-Rail brackets for wall-mounted, DIN-Rail mounted or desktop placement

OVERVIEW

The EDIMAX D5G-8459 Industrial 5G NR DIN-Rail router offers both wireless and wired internet connections using 5G NR for the extreme and critical environments with operating temperature ranging from -20°C to 70°C, eliminating the need for fixed broadband.

Designed for industrial business users with a wide temperature range and DIN-Rail mounting kits, the D5G-8459 router built-in with the RM520-GL solution (Qualcomm® Snapdragon X62) for reliability, compatibility, and high performance. Features include Gigabit wired connectivity, strong mobility, easy installation, redundant power supply and backup connectivity in case of fixed broadband outages.

The D5G-8459 router with a fast Gigabit speed is suitable for streaming and video conferencing. Reliable, durable, flexible, scalable, and secure, the router is ideal for temporary use, frequent movement, or non-stop connectivity. Providing stable internet service with redundant power and a backup network makes it an efficient networking solution for business and extreme industrial environments.

Rapid Internet Deployment for Internet Connectivity

The rapid deployment advantage of 5G NR routers eliminates the need for wired broadband installation. Simply purchase and insert a SIM card for plug-and-play convenience, and the internet connection is established. The router provides stable wireless and wired internet connections, suitable for various network needs. For mobile users, as long as there is 5G NR signal coverage, internet access is easily attainable. Its flexibility and convenience make it particularly suitable for temporary use or frequent movement, ideal for temporary offices, events, activities, or locations without wired broadband service.

Industrial-Hardened Design for Durable Performance Network

With industrial-hardened design, the D5G-8459 can operate across a wide range of temperatures and is equipped with 6KV lightning surge protection, power protection, and DIN-Rail bracket for extreme industrial environments. It extends the geographic range for potential deployments and reduces hidden costs with a longer product life cycle.

Reliable Failover and Redundancy for Continuous Connectivity

Network stability is crucial for industrial and business users. The D5G-8459, designed for enterprises and SMEs, uses the RM520-GL solution (Qualcomm® Snapdragon x62) for reliability, compatibility, and high performance. The industrial router supports power redundancy with two power supplies as the backup for each other. Fixed broadband and 5G NR can also failover backup each other. This is vital for users requiring an uninterrupted network service, like special industries with payment system, remote data transferring and work, online meetings, and video streaming. In emergencies such as natural disasters or construction damage that disrupt fixed broadband, the 5G NR router provides emergency network support, ensuring critical communications and data transfers remain uninterrupted.

Powerful Management Tool for Network Optimization

Designed for business networks, the D5G-8459 offers network managed functions with advanced essential features such as Blacklist/Whitelist, TTL (Time To Live), VPN Client (L2TP and PPTP), Guest Wi-Fi Isolation, Network Diagnosis, Hidden SSID, Port Forwarding, Access Control, Internet Priority (Cellular Only or Wired to Cellular), and more. Experience fast and easy operations with just a few simple clicks, through the user-friendly web-based management utility, your network is ready to use with ease.

SPECIFICATIONS

HARDWARE	
Interface	1 x RJ45 10/100/1000Base-T WAN Port 4 x RJ45 10/100/1000Base-T LAN Ports 1 x Standard SIM Card Slot
Button	Reset Button
Connector	- Removable 2-pin 5.08mm Terminal Block - Grounding Point with Screw - DC In (5-36V) Power Jack
LED Indicator	- Power/SYS: System Power Status 5G: Connected Status 4G: Connected Status 5G/4G: Signal Strength
Antenna	4 x External Detachable High Gain Antennas (SMA Connector) 2 x 5G NR Antennas 2 x Wi-Fi 2.4GHz/5GHz Antennas
Power Requirement	External Power Supply - DC: 12V/1A - DC: 5-36V (Terminal Block)
Power Consumption	11.5W (Full Loading)
Mounting	DIN-Rail Mount/Wall Mount/Desktop
Housing	Metal Case
Dimensions	135 (W) x 103 (D) x 29 (H) mm (Antenna not included) (5.31 (W) x 4.06 (D) x 1.14 (H) inches)
Weight	591g (1.311lb)
CELLULAR	
Band	5G NR Sub-6 NSA (Non-Standalone): Bands 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 5G NR Sub-6 SA (Standalone): Bands 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-FDD: Bands B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B66, B71 LTE-TDD: Bands B34, B38, B39, B40, B41, B42, B43, B48 LTE-LAA (Licensed Assisted Access): Band B46 WCDMA: Bands B1, B2, B4, B5, B8, B19

CELLULAR	
PHY Data Rate (Max.)	5G Sub-6 NSA Download: 3.4Gbps / Upload: 550Mbps 5G Sub-6 SA Download: 2.4Gbps / Upload: 900Mbps LTE Download: 1.6Gbps / Upload: 200Mbps WCDMA Download: 42Mbps / Upload: 5.76Mbps
SOFTWARE	
Port Forwarding	Supported
Network Diagnosis	Supported
VPN Client	Supported L2TP and PPTP
Whitelist/Blacklist	Supported
TTL (Time To Live)	Supported
Internet Priority	Supported - Cellular Only - Wired to Cellular
Auto Channel Adjustment	Supported
Management	- Account Management (Access Control) - Scheduling Restart - Backup/Recovery - LED Control - On/Off - Schedule On/Off - SSH Control - Custom DNS - Custom APN
OTHERS	
Environmental Condition	Temperature: - Operating: -20 ~ 70°C (-4°F ~ 158°F) - Storage: -40 ~ 85°C (-40°F ~ 185°F) Humidity: - Operating: 10 ~ 90% (Non-condensing) - Storage: 10 ~ 90% (Non-condensing)
Certification	CE

Maximum performance, actual data rates, and coverage will vary depending on network conditions and environmental factors. Product specifications and design are subject to change without notice.

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