



## Industrial 4G LTE AC1200 Wi-Fi 5 DIN-Rail Router

D4G-7459AC

### FEATURES

- **4G LTE Mobile Network:** Supports LTE-TDD, LTE-FDD, WCDMA, and GSM/EDGE
- **Wi-Fi 5 AC1200 High-Speed:** Max. Wi-Fi speed up to 1167Mbps (2.4GHz at 300Mbps and 5GHz at 867Mbps)
- **Reliable Failover:** Automatic failover between 4G LTE 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
- **Efficient MU-MIMO:** Serves multiple devices simultaneously for data transmission with improved capacity for wireless connections
- **High Performance Wi-Fi:** Beamforming, AirTime Fairness, Band Steering, and 802.11r/k Fast Roaming to enhance Wi-Fi performance
- **Best Compatibility and Performance:** Equipped with a Qualcomm solution and backward compatible with 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 D4G-7459AC Industrial 4G LTE Wi-Fi router offers wireless and wired internet connections using 4G LTE, designed for extreme and critical environments with operating temperatures ranging from -20°C to 70°C, eliminating the need for fixed broadband. By inserting a SIM card, it connects to the 4G LTE network, making it ideal for areas without fixed broadband or requiring mobile or non-stop connectivity.

Designed for industrial business users with a wide temperature range and DIN-Rail mounting kits, the D4G-7459AC router built-in with the EC25 solution (Qualcomm® MDM9207) for reliability, compatibility, and high performance. Features include wireless/wired connectivity, strong mobility, multi-device support, easy installation, redundant power supply and backup connectivity in case of fixed broadband outages.

Wi-Fi 5 AC1200 technology provides faster speeds and greater coverage, offering speeds up to 300Mbps on 2.4GHz and 867Mbps on 5GHz, making it 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 solution for business and extreme industrial environments.

### Rapid Internet Deployment for Both Wi-Fi & Wired Connectivity

The rapid deployment advantage of 4G LTE 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 4G LTE 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 D4G-7459AC can operate across a wide range of temperatures and is equipped with 6KV lightning surge protection, power protection, and a 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 D4G-7459AC, designed for enterprises and SMEs, utilizes the EC25 solution (Qualcomm® MDM9207) for reliability, compatibility, and high performance. The industrial router supports power redundancy with two power supplies as backups for each other. Fixed broadband and 4G LTE 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 4G LTE router provides emergency network support, ensuring critical communications and data transfers remain uninterrupted.

### Powerful Management Tool for Network Optimization

Designed for business networks, the D4G-7459AC 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               | <ul style="list-style-type: none"> <li>1 x RJ45 10/100Base-T WAN Port</li> <li>4 x RJ45 10/100Base-T LAN Ports</li> <li>1 x Standard SIM Card Slot</li> </ul>                     |
| Button                  | Reset Button                                                                                                                                                                      |
| Connector               | <ul style="list-style-type: none"> <li>Removable 2-pin 5.08mm Terminal Block</li> <li>Grounding Point with Screw</li> <li>DC In (5-36V) Power Jack</li> </ul>                     |
| LED Indicator           | <ul style="list-style-type: none"> <li>Power/SYS: System Power Status</li> <li>Wi-Fi: Connected Status</li> <li>4G: Signal Strength</li> </ul>                                    |
| Antenna                 | <ul style="list-style-type: none"> <li>4 x External Detachable High Gain Antennas (SMA Connector)</li> <li>2 x 4G LTE Antennas</li> <li>2 x Wi-Fi 2.4GHz/5GHz Antennas</li> </ul> |
| Power Requirement       | External Power Supply <ul style="list-style-type: none"> <li>DC: 12V/1A</li> <li>DC: 5-36V (Terminal Block)</li> </ul>                                                            |
| Power Consumption       | 10W (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)<br>(5.31 (W) x 4.06 (D) x 1.14 (H) inches)                                                                                   |
| Weight                  | 470g (1.041lb)                                                                                                                                                                    |
| WI-FI                   |                                                                                                                                                                                   |
| Standard                | Wi-Fi 5 IEEE 802.11a/b/g/n/ac                                                                                                                                                     |
| Frequency Band          | <ul style="list-style-type: none"> <li>2.4GHz: 2.412 ~ 2.472GHz</li> <li>5GHz: 5.180~5.240GHz</li> </ul> *Subject to local regulations.                                           |
| Maximum Data Speed      | <ul style="list-style-type: none"> <li>2.4GHz: 300Mbps</li> <li>5GHz: 867Mbps</li> </ul>                                                                                          |
| Operation Channels      | <ul style="list-style-type: none"> <li>2.4GHz : CH 1-13</li> <li>5GHz : CH36-64, 100-144, 149-165</li> </ul>                                                                      |
| Concurrent Clients      | Up to 128 Clients <ul style="list-style-type: none"> <li>2.4GHz: Up to 64 Clients</li> <li>5GHz: Up to 64 Clients</li> </ul>                                                      |
| SECURITY                |                                                                                                                                                                                   |
| Encryption              | WPA2-AES/WPA                                                                                                                                                                      |
| Hidden SSID             | Supported                                                                                                                                                                         |
| Guest Wi-Fi (Isolation) | Supported                                                                                                                                                                         |

| CELLULAR                |                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Band                    | <ul style="list-style-type: none"> <li><b>LTE-FDD</b>: Bands B1, B3, B7, B8, B20, B28A</li> <li><b>LTE-TDD</b>: Bands B38, B40, B41</li> <li><b>WCDMA</b>: Bands B1, B8</li> <li><b>GSM/EDGE</b>: Bands B3, B8</li> </ul>                                                                                                                                                                                                          |
| PHY Data Rate (Max.)    | <ul style="list-style-type: none"> <li><b>LTE-FDD</b><br/>Download: 150Mbps / Upload: 50Mbps</li> <li><b>LTE-TDD</b><br/>Download: 130Mbps / Upload: 30Mbps</li> <li><b>DC-HSPA+</b><br/>Download: 42Mbps / Upload: 5.76Mbps</li> <li><b>WCDMA</b><br/>Download: 384Kbps / Upload: 384Kbps</li> <li><b>EDGE</b><br/>Download: 296Kbps / Upload: 236.8Kbps</li> <li><b>GPRS</b><br/>Download: 107Kbps / Upload: 85.6Kbps</li> </ul> |
| SOFTWARE                |                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Port Forwarding         | Supported                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Network Diagnosis       | Supported                                                                                                                                                                                                                                                                                                                                                                                                                          |
| VPN Client              | Supported L2TP and PPTP                                                                                                                                                                                                                                                                                                                                                                                                            |
| Whitelist/Blacklist     | Supported                                                                                                                                                                                                                                                                                                                                                                                                                          |
| TTL (Time To Live)      | Supported                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Internet Priority       | Supported <ul style="list-style-type: none"> <li>Cellular Only</li> <li>Wired to Cellular</li> </ul>                                                                                                                                                                                                                                                                                                                               |
| Auto Channel Adjustment | Supported                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Management              | <ul style="list-style-type: none"> <li>Account Management (Access Control)</li> <li>Scheduling Restart</li> <li>Backup/Recovery</li> <li>LED Control               <ul style="list-style-type: none"> <li>On/Off</li> <li>Schedule On/Off</li> </ul> </li> <li>SSH Control</li> <li>Custom DNS</li> <li>Custom APN</li> </ul>                                                                                                      |
| OTHERS                  |                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Environmental Condition | Temperature: <ul style="list-style-type: none"> <li>Operating: -20 ~ 70°C (-4°F ~ 158°F)</li> <li>Storage: -40 ~ 85°C (-40°F ~ 185°F)</li> </ul> Humidity: <ul style="list-style-type: none"> <li>Operating: 10 ~ 90% (Non-condensing)</li> <li>Storage: 10 ~ 90% (Non-condensing)</li> </ul>                                                                                                                                      |
| 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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