

# Transform Connectivity, Unlock Possibilities



## FWA12 5G Router

· 5G

· Wi-Fi 7

· AI-Powered Management

· POS Ready™



# 1. Product Overview

The FWA12 5G router delivers ultra-fast connectivity with up to 7.01 Gbps downlink and 2.5 Gbps uplink. Supporting Wi-Fi 7 speeds up to 5000 Mbps and 128 device connections, it ensures seamless performance for business networks with enterprise-grade firewall, VPN security, and AI-powered cloud management.

## Features and Advantages:

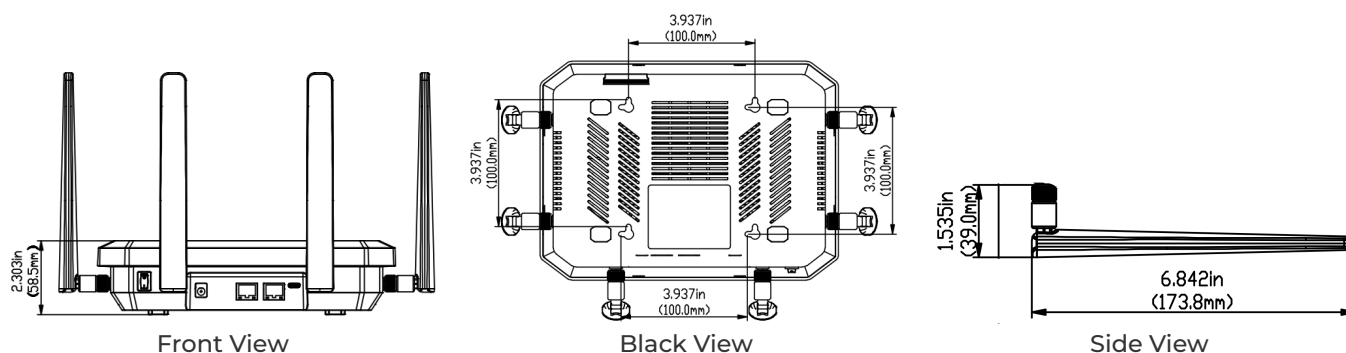
- **High-Performance 5G:** Quad-core A55, 5G R16 (SA/NSA), 7.01 Gbps DL / 2.5 Gbps UL, 4 DL CA + 2 UL CA, 300 MHz bandwidth
- **Next-Gen Wi-Fi 7:** Dual-band 2.4 / 5.8 GHz, 5000 Mbps peak rate, 128 concurrent connections, enhanced MU-MIMO
- **Enterprise Security:** IPsec and L2TP VPN, advanced firewall, traffic management, security logs, anomaly detection
- **AI-Driven Cloud Management:** InCloud Manager with zero-touch provisioning, AI assistant with 7×24 support
- **One-Click POS Ready™:** Ensure business continuity with one-click POS traffic optimization, prioritizing bandwidth for mission-critical transactions
- **Built for Enterprise Agility:** Abundant features, flexible configuration, high network resilience

## Core Technical Specifications

| Technical Item   | Specification                                                |
|------------------|--------------------------------------------------------------|
| Cellular         | 5G SA/NSA + LTE Cat19; up to 7.01 Gbps DL / 2.5 Gbps UL (5G) |
| Cloud Management | InCloud Manager; AI assistant (7×24)                         |
| VPN              | IPsec, L2TP                                                  |
| Network          | IPv4/IPv6                                                    |
| Wi-Fi            | Wi-Fi 7 (802.11be), 2.4/5.8 GHz, 5000 Mbps                   |

| Technical Item     | Specification                                            |
|--------------------|----------------------------------------------------------|
| Throughput / Users | Stateful firewall 2 Gbps; up to 220 users (128 Wi-Fi)    |
| SIM                | 1 × eSIM + 2 × Nano-SIM (hot-swap)                       |
| Ethernet / USB     | 2 × 2.5 GbE (WAN/LAN, dual-LAN); USB-C 2.0               |
| Antennas           | 6 × external + 2 × internal cellular; 3 × internal Wi-Fi |
| Power              | 12 V / 3 A; ≤24 W                                        |
| Dimensions         | 236 × 172.5 × 58.5 mm (9.29 × 6.79 × 2.3 in)             |
| Certification      | FCC, IC, PTCRB, Verizon, T-Mobile, AT&T                  |

## 2. Product Dimensions



Note:

1. All dimensions are in millimeters (mm), with inches (in) in parentheses.
2. Dimensions (L × W × H): 236 × 172.5 × 58.5 mm (9.29 × 6.79 × 2.3 in).
3. All dimensions are approximate, for reference only.
4. Dimensions shown shall not be used for production.

### 3. Hardware Specifications

| Category/Parameter           | Specification                                                              |
|------------------------------|----------------------------------------------------------------------------|
| <b>Performance Metrics</b>   |                                                                            |
| Stateful Firewall Throughput | 2 Gbps                                                                     |
| Recommended Users            | 220 (128 Wi-Fi devices)                                                    |
| <b>Interfaces</b>            |                                                                            |
| Ethernet                     | 2 × 2.5 GbE RJ45, WAN/LAN switchable, dual-LAN                             |
| USB                          | 1 × Type-C 2.0, HOST and SLAVE modes                                       |
| SIM                          | 1 × eSIM; 2 × Nano-SIM, hot plug                                           |
| Reset                        | Reset button                                                               |
| Power Switch                 | 1 × button                                                                 |
| LED                          | System, Cellular, Signal, WAN, LAN, Wi-Fi                                  |
| Antenna                      | 6 × external + 2 × built-in antenna; 3 × built-in Wi-Fi antenna            |
| <b>Cellular</b>              |                                                                            |
| Data Rate                    | 5G SA/NSA: 7.01 Gbps DL / 2.5 Gbps UL; 4G CAT19: 1.6 Gbps DL / 200 Mbps UL |
| Antenna Freq.                | 617–5925 MHz                                                               |
| Antenna Gain                 | 617–894 MHz: 2 dBi; 1700–5000 MHz: 4.11 dBi                                |
| <b>Wi-Fi</b>                 |                                                                            |

| Category/Parameter    | Specification                                    |
|-----------------------|--------------------------------------------------|
| Frequency             | 2.4 GHz, 5.8 GHz                                 |
| Max Bandwidth         | 5000 Mbps                                        |
| Protocol              | 802.11 be/ax/ac/b/g/n, Wi-Fi 7                   |
| Antenna Freq.         | 2400–2500 MHz; 5000–5800 MHz                     |
| Antenna Gain          | 2400–2500 MHz: 4.17 dBi; 5000–5800 MHz: 4.56 dBi |
| <b>Power</b>          |                                                  |
| Input                 | Circular interface, 12 V / 3 A                   |
| Power Consumption     | ≤ 24 W                                           |
| <b>Mechanical</b>     |                                                  |
| Dimensions            | 236 × 172.5 × 58.5 mm (9.29 × 6.79 × 2.3 in)     |
| Weight                | 2.2 lbs                                          |
| Installation          | Wall mounting, desktop mounting                  |
| <b>Environment</b>    |                                                  |
| Operating Temperature | -10 °C ~ +50 °C (14 °F ~ +122 °F)                |
| Storage Temperature   | -40 °C ~ +85 °C (-40 °F ~ +185 °F)               |
| Humidity              | 5–95 % RH (non-condensing)                       |
| Protection            | IP20                                             |
| <b>Physical</b>       |                                                  |
| Shock                 | IEC 60068-2-27                                   |
| Vibration             | IEC 60068-2-6                                    |
| Free Fall             | IEC 60068-2-32                                   |

| Category/Parameter   | Specification                           |
|----------------------|-----------------------------------------|
| <b>Certification</b> |                                         |
| Certification        | FCC, IC, PTCRB, Verizon, T-Mobile, AT&T |
| Warranty             | 3 years                                 |

## 4. Software Specifications

| Category/Parameter      | Specification                                                          |
|-------------------------|------------------------------------------------------------------------|
| <b>Cloud Management</b> |                                                                        |
| Platform                | InCloud Manager                                                        |
| Features                | Zero-touch provisioning, centralized management, visualized monitoring |
| AI Assistant            | 7×24 support, context-aware problem solving                            |
| <b>Network Features</b> |                                                                        |
| Access                  | 5G/4G cellular, Ethernet                                               |
| Dialing                 | PPPoE, cellular auto redial, dual-SIM switching, APN configuration     |
| Link Backup             | Packet-by-packet load balancing, link priority adjustment              |
| Link Monitoring         | Real-time delay, jitter, packet loss, throughput monitoring            |
| IP Protocol             | IPv4 / IPv6                                                            |
| Applications            | VLAN, DHCP Server/Client, DNS, DDNS, Fixed Address, IP Passthrough     |
| Interface               | Duplex mode, link negotiation, interface enable                        |

| Category/Parameter        | Specification                                                                               |
|---------------------------|---------------------------------------------------------------------------------------------|
| <b>Security</b>           |                                                                                             |
| VPN                       | IPsec VPN, L2TP VPN                                                                         |
| Firewall                  | Access control, port mapping, port forwarding, MAC/IP/port/protocol filtering               |
| <b>Monitoring</b>         |                                                                                             |
| Dashboard                 | Device info, interface status, traffic analysis                                             |
| Cellular Signal           | Real-time RSSI, RSRP, RSRQ, SINR, etc.                                                      |
| Logs                      | System logs, diagnostic logs, device events, email alerts                                   |
| <b>Wi-Fi</b>              |                                                                                             |
| Mode                      | 802.11 be/ax/ac/b/g/n, Wi-Fi 7, AP mode                                                     |
| <b>Policy</b>             |                                                                                             |
| Policy                    | Policy routing, traffic shaping                                                             |
| POS Ready™                | One-click POS traffic optimization; prioritizes bandwidth for mission-critical transactions |
| <b>Self Recovery</b>      |                                                                                             |
| Watchdog                  | Software and hardware watchdog, self-healing                                                |
| <b>Remote Maintenance</b> |                                                                                             |
| Access                    | Web UI, CLI remote access and control                                                       |
| Cloud                     | Remote maintenance of PCs, monitoring equipment, servers, etc.                              |
| Diagnostics               | Ping, Traceroute, packet capture, diagnostic logs                                           |
| Config                    | Configuration import and export                                                             |

## 5. Ordering Information

### Model Code

Model code: FWA12-\WMNN\

\WMNN: Type & Module

### Product Models

| Model      | Region          | Specification                                                                                                                                  |
|------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| FWA12-NANR | North America   | 5G Sub-6:<br>n2/5/7/12/13/14/25/26/29/30/38/41/48/66/70/71/77/78<br>LTE-FDD B2/4/5/7/12/13/14/17/25/26/29/30/66/71;<br>LTE-TDD B38/41/42/43/48 |
| FWA12-EUNR | Europe,<br>APAC | 5G Sub-6: n1/3/5/7/8/20/28/38/40/41/75/76/77/78<br>LTE: B1/3/5/7/8/20/28/32/38/40/41/42/43/46(LAA)<br>WCDMA: B1/5/8                            |

## 6. Contact Us

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