

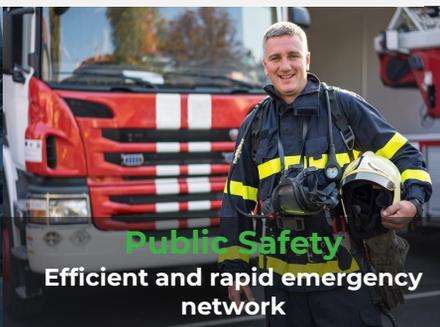
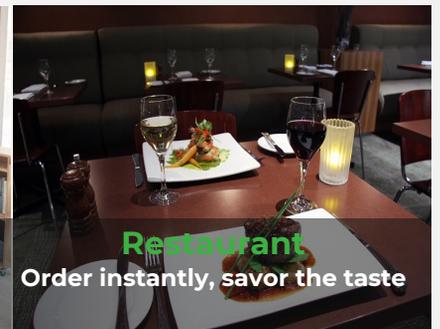
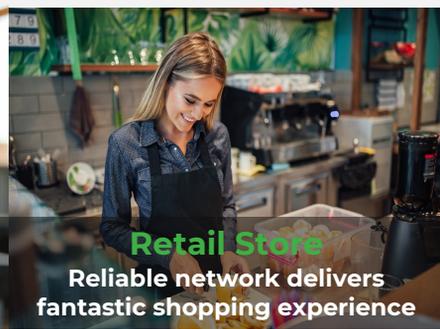
Transform Connectivity, Unlock Possibilities

# 5G FWA12 Router

- 5G
- Wi-Fi 7
- AI-Powered Management



The FWA12 5G router delivers ultra-fast connectivity with a maximum downlink speed of 7.01 Gbps and an uplink of 2.5 Gbps. 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, FWA12 provides a high-speed, intelligent, and secure networking solution for business branches, SMB offices, and any rural areas that require high-bandwidth wireless connections.



# Features and Advantages

## High-Performance 5G

- Powered by a high-performance quad-core A55 processor.
- Compliant with 5G R16 (NSA/SA), supports peak DL 7.01 Gbps, UL 2.5Gbps.
- Carrier aggregation with 4 DL CA and 2 UL CA, ensuring faster data rates.
- Ultra-wide 300MHz bandwidth for high-density network performance.



## Next-Gen Wi-Fi7 Coverage

- Wi-Fi7 dual-band for superior compatibility and performance.
- High-speed connectivity with a peak rate of 5000Mbps.
- Massive device capacity, supporting 128 concurrent connections.
- Enhanced MU-MIMO, delivering smoother transmission.



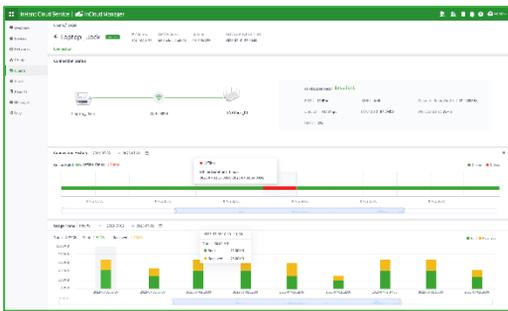
## Enterprise Security, Zero Worries

- IPSec and L2TP VPN, ensuring secure and reliable remote communications.
- Advanced firewall and traffic management policies to strictly regulate data flow and prevent unauthorized access.
- Security logs, anomaly detection, and alert mechanisms for full-spectrum monitoring.



## Built for Enterprise Agility

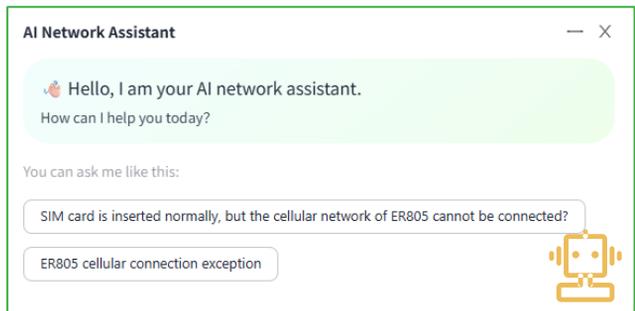
With abundant features, flexible configuration, and high network resilience to deliver efficient and stable enterprise connectivity.



Easy Network Management with Cloud

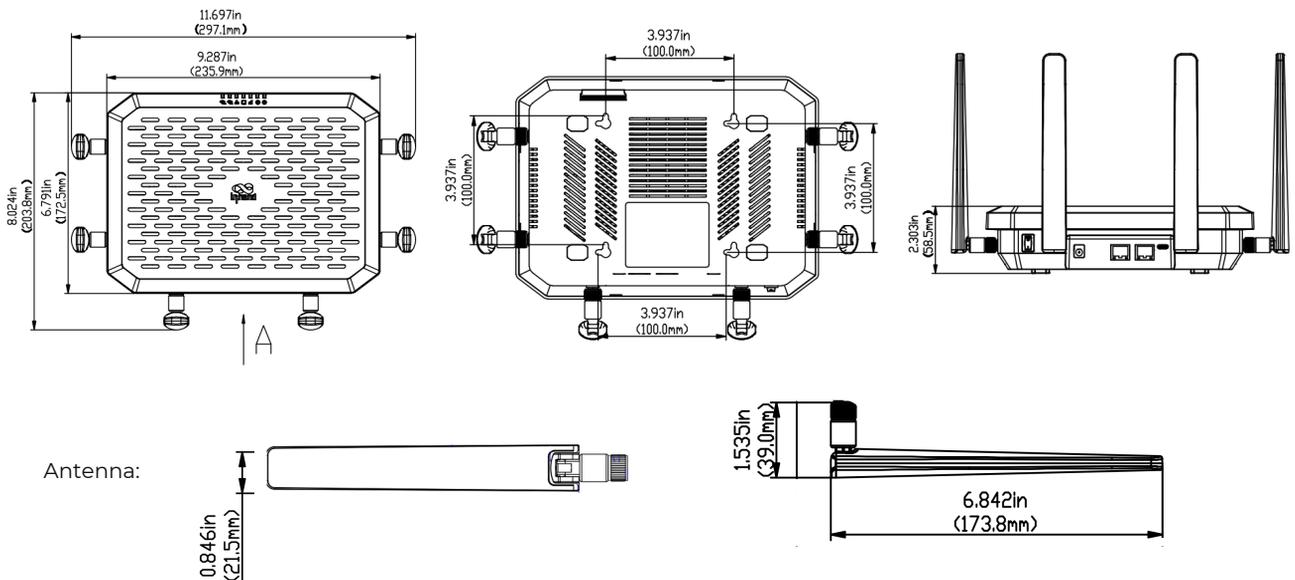
## AI-Driven Cloud Management

Transform network management with automation, insight, and always-on intelligence.



AI Assistant with 7\*24 Support

# Dimensions



Dimensions: 9.29 \* 6.79 \* 2.3(in) / 236 \* 172.5 \* 58.5 (mm)

# Product Specifications

## 5G FWA12 Hardware Specifications

### Hardware Platform

Stateful Firewall Throughput	2Gbps
Recommended No. of Users	220 (128 Wi-Fi devices)

### Interfaces

Ethernet Port	2*2.5 GbE RJ45; WAN/LAN switchable, Dual-LAN
USB	1*Type-C, USB 2.0, Supports HOST and SLAVE modes
SIM	1*eSIM; 2*SIM, Nano SIM slot, Hot plug
Reset	Reset button
Power Switch	1*button
Lights	System, Cellular, Signal, WAN, LAN, Wi-Fi
Antenna Interface	6*external and 2*built-in antenna, 3*built-in Wi-Fi antenna

### Cellular

Cellular Rate	5G SA&NSA: 7.01Gbps (DL)/2.5Gbps (UL) 4G CAT19: 1.6Gbps (DL)/200Mbps (UL)
Antenna Freq. Range	617-5925 MHz
Antenna Gain	617-894MHz: 2 dBi 1700-5000MHz: 4.11 dBi

### Wi-Fi

Radio Frequency	2.4GHz&5.8GHz
Max Transmission Bandwidth	5000Mbps
Transfer Protocol	802.11 be/ax/ac/b/g/n, Wi-Fi 7
Antenna Freq. Range	2400-2500 ; 5000-5800 MHz
Antenna Gain	2400-2500MHz: 4.17 dBi 5000-5800MHz: 4.56 dBi

### Power Supply

Power	Circular interface, 12V 3A
Power Consumption	≤24W

### Mechanical Features

Installation	Wall mounted, desktop mounted
Dimensions & Weight	236 * 172.5 * 58.5 (mm), 2.2lbs 9.29 * 6.79 * 2.3(in)

### Environment

Working Temp.	-10°C to 50°C
Storage Temp.	-40°C to 85°C
Humidity	5% to 95% (non-condensing)
Ingress Protection	IP20

### Physical Properties

Shockproof	IEC60068-2-27
Vibration Resistance	IEC60068-2-6
Free Fall	IEC60068-2-32

### Certification

Certification	FCC, IC, PTCRB, Verizon, T-Mobile, AT&T
Warranty	3 years

## 5G FWA12 Software Specifications

### Cloud Management

InCloud Manager	Zero-Touch Provisioning
	Centralized Management
	Visualized Monitoring
	AI Assistant with 7*24 Support Context-Aware Problem Solving

### Uplink Management

Network Access	Multiple network access, 5G/4G cellular network access, ETH network access
Dial-up Service	PPPoE, cellular automatic redial, dual SIM switching, APN configuration
Smart Link	Link backup, Supports link priority adjustment Packet-by-packet load balancing among multiple links Real-time detection of link delay, jitter, and packet loss

### Monitoring & Alerts

Dashboard	Device information, interface status, traffic analysis
Link Monitoring	Link delay, jitter, packet loss, and throughput monitoring
Cellular Signal	Real-time view of cellular signal strength, RSSI, RSRP, RSRQ, SINR, etc.
Data Security	System logs, diagnostic logs, device events, email alerts

### Network Functions

IP Protocol	IPv4/IPv6
IP Application	VLAN, DHCP server/client, DNS, DDNS, Fixed Address Assignment, IP Passthrough
Interface Management	Duplex mode, link negotiation rate, interface enable
Wi-Fi	802.11 be/ax/ac/b/g/n , Wi-Fi 7, AP mode
Policy Management	Policy Routing, Traffic Shaping
Self Recovery	Built-in software and hardware watchdog, self-healing equipment operation failure, to ensure the equipment maintains high availability

### Security

VPN	IPSec VPN, L2TP VPN
Firewall	Access control, port mapping, port forwarding, MAC address filtering Firewall filtering based on MAC, IP, port, and protocol

### Remote Maintenance

Remote Access Control	Supports Web UI/CLI remote access and control
Cloud Connection	Remote maintenance of PCs, monitoring equipment, servers, etc.
Network Diagnostics	Ping, Traceroute, network packet capture tools, diagnostic logs
Configuration Backup	Supports configuration import and export

## Ordering Guide

Model	Model Code: FWA12-<WMNN>
	<WMNN>: Type & Module
FWA12-NANR	5G for North America 5G Sub6 : n2/n5/n7/n12/n13/n14/n25/n26/n29/n30/n38/n41/n48/n66/n70/n71/n77/n78 LTE FDD: B2/4/5/7/12/13/14/17/25/26/29/30/66/71 LTE TDD: B38/41/42/43/48

## InHand Cloud-Managed Networking Solution

Our solution encompasses 5G FWA/ODU, SD-WAN routers, Wi-Fi 6 AP, enterprise switches, and the InCloud Manager SaaS. By integrating top-tier IT management, IoT, 5G, AI, and other technologies, we provide fast, secure, intelligent, and user-friendly network solutions globally, enabling businesses to unlock boundless growth opportunities.



### InCloud Manager

- Zero-Touch Provisioning
- Centralized Management
- Visualized Monitoring
- AI Assistant with 7\*24 Support
- Context-Aware Problem Solving



### 5G SD-WAN Edge Router

- 5G (Sub 6)
- Multilink Backup & Dual SIM failover
- 5\*Gigabit Ethernet port, dual WAN
- 1200M WiFi5 / 3000M WiFi6
- SD-WAN, VLAN, VPN networking



### 5G Outdoor Unit

- High-speed 5G, DL 7.01Gbps, UL 2.5Gbps
- 2Gbps throughput
- 2.5G ETH, WAN/LAN, PoE
- IP65, -30 ~ 70°C, GNSS
- Wall & pole mounting with adjustable angles

## About Us

InHand Networks is a leading IoT solutions provider founded in 2001, dedicated to driving digital transformation across industries and empowering customers to unlock their full potential and achieve accelerated growth.

We specialize in delivering industrial-grade connectivity solutions for diverse sectors, such as enterprise networks, industrial and building IoT, digital energy, smart commerce, and mobility. Our comprehensive product portfolio and services cater to various applications worldwide, including smart manufacturing, smart grid, intelligent transportation, smart retail, etc. With a global footprint spanning over 60 countries, we serve customers in China, the United States, France, Germany, the United Kingdom, Italy, and beyond.



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