

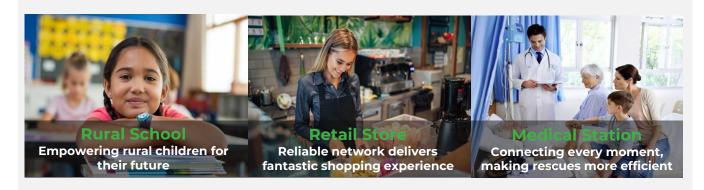
Transform Connectivity, Unlock Possibilities

5G FWA12 Router

• 5G • Wi-Fi 7 • Al-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 4200 Mbps and 128 device connections, it ensures seamless performance for business networks. With enterprise-grade firewall, VPN security, and Alpowered 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 quadcore 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 highdensity network performance.

Next-Gen Wi-Fi7 Coverage

- Wi-Fi7 dual-band for superior compatibility and performance.
- High-speed connectivity with a peak rate of 4200Mbps.
- 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

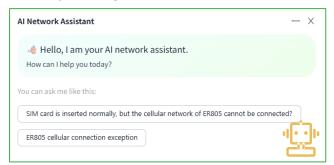
With abundant features, flexible configuration, and high network resilience to deliver efficient and stable enterprise connectivity.



Easy Network Management with Cloud

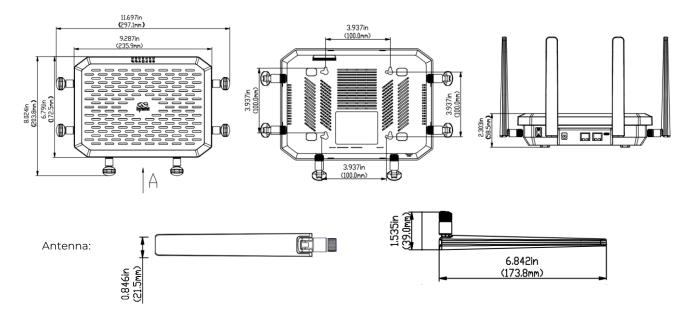
Al-Driven Cloud Management

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



Al 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	e 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	l*button	
Lights	System, Cellular, Signal, WAN, LAN, Wi-Fi	
Antenna Interface	6*external sub6 antenna, 4*built-in Wi-Fi antenna	
Cellular		
Collular Data	5G SA&NSA: 7.01Gbps (DL)/2.5Gbps (UL)	
Cellular Rate	4G CAT19: 1.6Gbps (DL)/200Mbps (UL)	
Antenna Freq. Range	617-5925 MHz	
	617-894MHz: 2 dBi	
Antenna Gain	1700-5000MHz: 4.11 dBi	
Wi-Fi		
Radio Frequency	2.4GHz&5.8GHz	
Max Transmission Bandwidth	4200Mbps	
Transfer Protocol	802.11 be/ax/ac/b/g/n, Wi-Fi 7	
Antenna Freq. Range	2400-2500; 5000-5800 MHz	
	2400-2500MHz: 4.17 dBi	
Antenna Gain	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, CE, IC, PTCRB, Verizon, T-Mobile, AT&T	
Warranty	3 years	

5G FWA12 Softwa	are Specifications	
Cloud Management		
InCloud Manager	Zero-Touch Provisioning Centralized Management Visualized Monitoring AI Assistant with 7*24 Support Context-Aware Problem Solving	
Uplink Managem	eent	
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 & Aler	ts	
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, RSR 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 Addressignment, 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 protoco	
Remote Maintena	ance	
Remote Access Control	Supports Web UI/CLI remote access and control	
Cloud Connection	Remote maintenance of PCs, monitoring equipmer 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>
	<wmnn>: Type & Module</wmnn>
FWA12-NANR	5G for North Americia 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
- Al 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

- High-speed 5G, DL 4.76Gbps, UL 1.25Gbps
- 2Gbps throughput
- 2.5G ETH, WAN/LAN, PoE
- IP67, -30 ~ 70° C, GPS
- 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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