

Simple Connectivity, Convenient Life



CPE02 5G Router

· 5G SA/NSA

· Wi-Fi 6 AX5400

· Cloud-Managed

· Plug & Play

1. Product Overview

CPE02 is an indoor CPE solution launched by InHand, based on a 5G Qualcomm X62 Module design. It converts 5G/4G cellular signals into Wi-Fi signals, providing maximum rate AX5400 Wi-Fi 6 high-speed internet access. It also integrates with the InCloud Manager platform, enabling IT teams to manage devices in bulk, greatly improve management efficiency.

Features and Advantages:

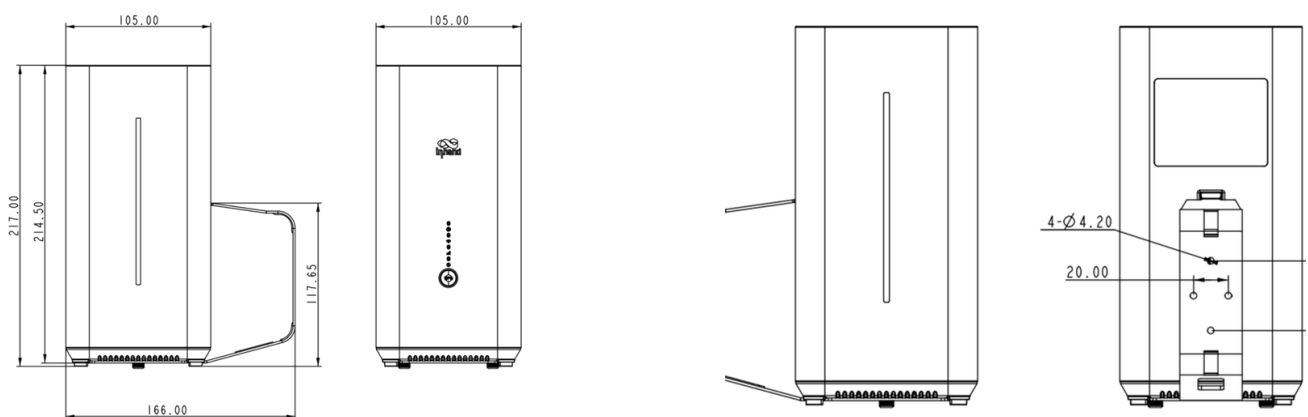
- **Convenient Cellular Access with High-speed 5G:** Paired with a 5G cellular module supporting DL 3.4G and UL 550M, the CPE02 can provide high-bandwidth, low-latency network solutions for various commercial scenarios
- **5G + Broadband Backup:** With automatic failover and load balancing, you can easily build redundancy and backup systems to minimize single points of failure for seamless service continuity and minimal downtime
- **High-speed Wi-Fi 6:** Supports dual-band Wi-Fi 6 with 2.4GHz and 5GHz, offering a maximum rate of up to 5400Mbps. Supports multiple SSIDs and various encryption settings
- **Plug & Play:** Supports plug-and-play operation and can be easily used without requiring specialized IT expertise
- **Centralized Management:** InCloud Manager platform for unified device access, zero-touch remote deployment, bulk remote upgrades, configuration deployment, and connector remote maintenance

Core Technical Specifications

Technical Item	Specification
Cellular	5G SA/NSA + 4G LTE; 5G DL up to 2.6 Gbps
Cloud Management	InCloud Manager
VPN	IPsec, L2TP, OpenVPN*

Technical Item	Specification
Network Features	IPv4/IPv6; NAT, VLAN, DHCP; PPPoE; dual-SIM policy; static routing
Wi-Fi	Wi-Fi 6 (AX5400), 2.4/5 GHz; multi-SSID, VLAN, WPA2/WPA3*
Throughput / Users	Firewall 1 Gbps; up to 200 users (128 Wi-Fi)
SIM	1 × Nano 4FF + optional eSIM
Ethernet	2 × GbE (EU/APAC) or 2.5G + 1G (US); WAN/LAN, dual LAN
Dimensions / Mount	105 × 105 × 217 mm (4.13 × 4.13 × 8.54 in); 800 g (1.76 lb); desktop / wall-mount
Power	12 V / 2 A; ≤ 15 W
Environment	-10 °C ~ +40 °C (14 °F ~ 104 °F) op.; -40 °C ~ +85 °C (-40 °F ~ 185 °F) stg.; 5%–95% RH; IP20
Certification	CE, FCC, IC, PTCRB, AT&T, Verizon, T-Mobile; EMC Level 2

2. Product Dimensions



Front View

Interface Dimensions

Note:

1. All dimensions are in millimeters (mm), with inches (in) in parentheses.
2. Dimensions (L × W × H): 105 × 105 × 217 mm (4.13 × 4.13 × 8.54 in).
3. Mounting bracket optional.
4. All dimensions are approximate, for reference only.
5. Dimensions shown **shall not be used for production**.

3. Hardware Specifications

Category/Parameter	Specification
Performance Metrics	
CPU	IPQ5018
Firewall Throughput	1 Gbps
Recommended Users	200 (Wi-Fi: 128)
Interfaces	
Cellular	5G NSA: 2.6 Gbps DL / 650 Mbps UL; 5G SA: 2.0 Gbps DL / 1.0 Gbps UL; 4G LTE: 600 Mbps DL / 150 Mbps UL
	4×4 MIMO 5G Sub-6 GHz, 256QAM
Ethernet	2 × GbE (EU/APAC) or 2.5G + 1G (US), WAN/LAN and dual LAN support
SIM Card	1 × Nano 4FF, 1 × eSIM optional
Type-C	Debug only
Reset	Hardware factory reset
WPS	Client one-touch Wi-Fi connection
Wi-Fi	

Category/Parameter	Specification
Standard	Wi-Fi 6, 802.11 a/b/g/n/ac/ax
Max Rate	5400 Mbps
TX Power	2.4 GHz: 17 dBm; 5 GHz: 17 dBm
Antenna Gain	≤ 5 dBi
Power	
Input	12 V / 2 A
Power Consumption	≤ 15 W
LEDs	
LED	5G, Wi-Fi, Signal, Power
Mechanical	
Dimensions (L × W × H)	105 × 105 × 217 mm (4.13 × 4.13 × 8.54 in)
Weight	800 g (1.76 lb)
Installation	Desktop, wall-mount
Protection	IP20
Environment	
Operating Temperature	-10 °C ~ +40 °C (14 °F ~ 104 °F)
Storage Temperature	-40 °C ~ +85 °C (-40 °F ~ 185 °F)
Humidity	5 % ~ 95 % RH (non-condensing)
Certification	
Certification	CE, FCC, IC, PTCRB, AT&T, Verizon, T-Mobile

Category/Parameter	Specification
EMC	EMC Level 2

4. Software Specifications

Category/Parameter	Specification
Cloud Management	
Platform	InCloud Manager
Features	Unified device access, zero-touch remote deployment, bulk remote upgrades, configuration deployment, connector remote maintenance, two-factor authentication
Dashboard	Device connectivity status, traffic statistics, cellular signal statistics, interface status, client statistics and analysis, uplink management
Network Features	
Access	5G/4G, wired
Dialing	PPPoE, cellular automatic redial, dual-SIM switching policy, APN configuration
Intelligent Links	Real-time link detection
IP Protocols	IPv4, IPv6
Network Protocols	VLAN, DHCP, DNS, URL Filtering, DDNS, Fixed Address allocation, IP Passthrough, STP, ARP, ICMP
Speed Test	Support for device speed testing*
VPN	IPsec VPN, L2TP VPN, OpenVPN*
Routing	Static routing

Category/Parameter	Specification
Wi-Fi	
Features	Multiple SSID, SSID VLAN, SSID hidden
Encryption	WPA, WPA2, WPA3*
Reliability	
Upgrade	Scheduled upgrade
Logs	Runtime logs, diagnostic logs
Events	User login, connection disconnect, device reboot
Alerts	Local email; platform SMS, email
Diagnostics	ICMP, packet capture, tracert

5. Ordering Information

Model Code

Model code: CPE02-<WMNN>-<WLAN/NA>

<WMNN>: Cellular Type & Module

Product Models

Model	Region	Cellular Bands	Ethernet
CPE02-NANR	US	5G Sub-6: SA 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; NSA same LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71 LTE-TDD: B34/B38/B39/B40/B41/B42/B43/B48	1 × 2.5G + 1 × 1G
CPE02-EUNR	EU & APAC	5G Sub-6: SA n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n66/n77/n78; NSA n1/n3/n7/n28/n38/n40/n41/n77/n78 LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28/B66 LTE-TDD: B34/B40/B41	2 × GbE

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