

Advanced 5G Cellular Router



ER815 Edge Router

· 5G

· Wi-Fi 6

· Cloud-Managed

· SD-WAN

1. Product Overview

The InHand ER815 is a versatile networking solution that connects stores and offices to the network through 5G/4G cellular or wired broadband, ensuring uninterrupted operations and productivity. Equipped with 2.5GbE port and 3000 Mbps Wi-Fi 6 LAN access, the ER815 supports network access for a wide range of digital terminals with excellent performance and high availability. Organizations can rely on the ER815 to achieve SD-WAN cross-branch access and remote maintenance of terminal devices.

Features and Advantages:

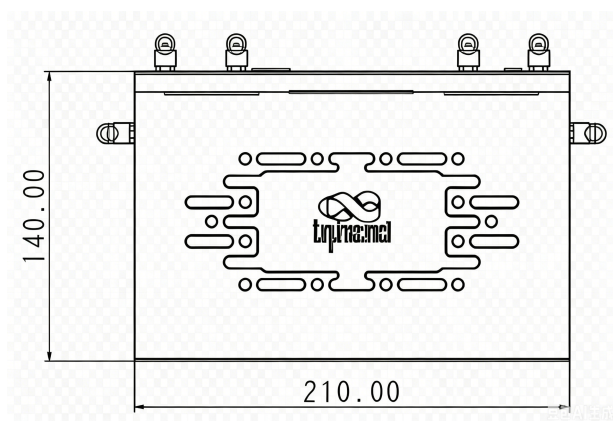
- **Convenient Cellular Access with High-speed 5G:** 5G module DL 2.4 Gbps / UL 900 Mbps for high-bandwidth, low-latency solutions
- **Plug & Play:** Wired, cellular, and Wi-Fi networking with multiple link-switching strategies
- **SD-WAN:** Combined with InCloud Manager for branch interconnection with flexibility and cost efficiency
- **High-speed Wi-Fi 6:** Dual-band Wi-Fi 6 (2.4/5 GHz), up to 3000 Mbps, multiple SSIDs and encryption settings
- **Outstanding Reliability:** Automatic failover and load balancing

Core Technical Specifications

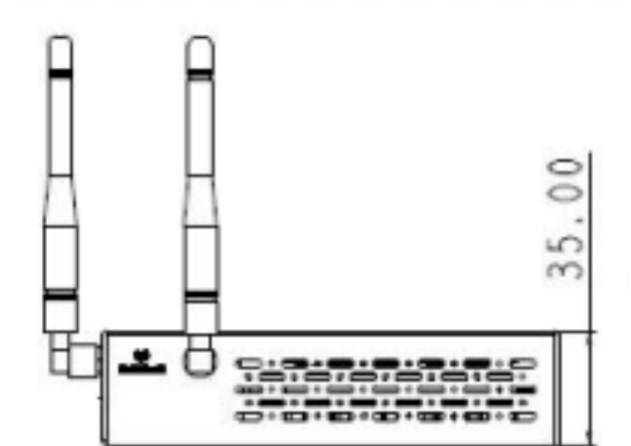
Technical Item	Specification
Cellular	5G/4G; SA up to 2.4 Gbps DL / 900 Mbps UL; NSA up to 3.4 Gbps DL / 550 Mbps UL; LTE up to 1.6 Gbps DL / 200 Mbps UL
SD-WAN / VPN	SD-WAN; IPsec, L2TP, VXLAN, GRE, OpenVPN*
Network	IPv4/IPv6
Wi-Fi	Wi-Fi 6 (802.11ax), 2.4/5 GHz, 3000 Mbps; multi-SSID
Throughput / Users	1 Gbps; IPsec 300 Mbps; 150–200 users

Technical Item	Specification
SIM	Dual Nano-SIM; eSIM optional
Ethernet	WAN: 1 × 2.5G or 1 × 2.5G + 1 × GbE; LAN: 4 × GbE or 3 × GbE
Antennas	4G: SMA ×2; 5G: SMA ×4; Wi-Fi: RP-SMA ×2; ≤5 dBi
Power	12 V / 3 A; peak ≤18 W
Dimensions	210 × 140 × 35 mm (8.27 × 5.51 × 1.38 in); 1.25 kg (2.76 lb);
EMC	EMC Level 2

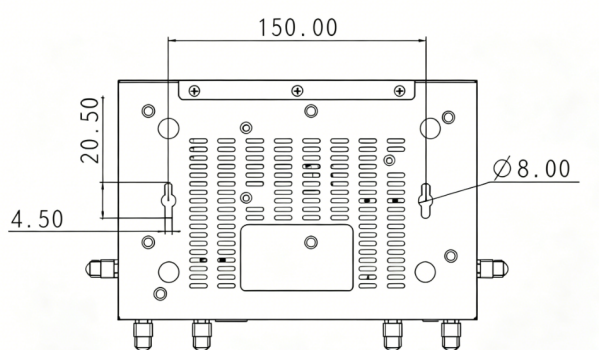
2. Product Dimensions



Front View



Interface Dimensions



Back View

Note:

1. All dimensions are in millimeters (mm), with inches (in) in parentheses.
2. Dimensions (L × W × H): 210 × 140 × 35 mm (8.27 × 5.51 × 1.38 in).
3. All dimensions are approximate, for reference only.
4. Dimensions shown shall not be used for production.

3. Hardware Specifications

Category/Parameter	Specification
Performance Metrics	
Throughput	1 Gbps
IPsec VPN Throughput	300 Mbps
Recommended Users	150–200
RAM	512 MB
Flash	8 GB
Interfaces	
Cellular	5G SA: 2.4 Gbps DL / 900 Mbps UL; 5G NSA: 3.4 Gbps DL / 550 Mbps UL; LTE: 1.6 Gbps DL / 200 Mbps UL
Ethernet	WAN: 1 × 2.5G or 1 × 2.5G + 1 × GbE; LAN: 4 × GbE or 3 × GbE; WAN/LAN switching, dual WAN
SIM Card	Dual Nano-SIM (eSIM optional)
Reset	Pinhole reset button
Antenna	4G: SMA × 2, Wi-Fi: RP-SMA × 2; 5G: SMA × 4, Wi-Fi: RP-SMA × 2
Wi-Fi	
Standard	802.11 a/b/g/n/ac/ax
Max Rate	3000 Mbps

Category/Parameter	Specification
TX Power	2.4 GHz: 21 dBm; 5 GHz: 21 dBm
Antenna Gain	≤ 5 dBi
Power	
Input	12 V / 3 A
Peak Power	≤ 18 W
LEDs	
LED	Power, Network, 5G Wi-Fi, 2.4G Wi-Fi
Mechanical	
Dimensions	210 × 140 × 35 mm (8.27 × 5.51 × 1.38 in)
Weight	1.25 kg (2.76 lb)
Installation	Bracket mount, wall mount
Protection	IP20
Environment	
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)
Certification	
Certification	In Plan*: CE, FCC, IC, PTCRB, AT&T, Verizon, T-Mobile
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, SD-WAN networking, 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, Wi-Fi
Dialing	PPPoE, cellular auto redial, dual-SIM switching, APN configuration
Intelligent Links	Real-time link detection
IP Protocols	IPv4, IPv6
Protocols	VLAN, DHCP (Server/Client), DHCP Snooping, DNS, URL Filtering, DDNS, Fixed Address, IP Passthrough, STP, ARP, ICMP
VPN	IPsec VPN, L2TP VPN, VXLAN, GRE, OpenVPN*
SD-WAN	SD-WAN networking
Routing	Static routing
Wi-Fi	

Category/Parameter	Specification
Features	Multi-SSID, SSID VLAN, SSID hidden, guest mode, custom splash portal
Encryption	WPA, WPA2, WPA-PSK, WPA2-PSK
Security	
Firewall	3L inbound/outbound rules, port forwarding, SNAT, DNAT
Remote access control	Supported
Access Control	Black/white list filtering, domain filtering, Portal authentication, 802.1X
Reliability	
Traffic Shaping	QoS by link, IP, and protocol
Upgrades	Scheduled upgrades
Logs	Runtime logs, diagnostic logs
Events	User logins, connection disconnects, device reboots
Alarms	Local email; platform SMS and email
Diagnostic	
Tools	ICMP, packet capture, tracer

5. Ordering Information

Model Code

Model code: ER815-\u003cWMNN\u003e-\u003cWLAN/NA\u003e

\u003cWMNN\u003e: Cellular Type & Module

\u003cWLAN/NA\u003e: WLAN = Wi-Fi; NA = no Wi-Fi

Product Models

Model	Region	Cellular	Specification
ER815-NRQ2-<WLAN/NA>	China	5G	5G NR n1/n3/n5/n8/n28A/n41/n77/n78/n79; LTE-FDD B1/B3/B5/B8; LTE-TDD B34/B38/B39/B40/B41; WCDMA B1/B5/B8
ER815-NRQ3-<WLAN/NA>	Global	5G	5G NR n1/n2/n3/n5/n7/n8/n12/n13/n14/n18/n20/n25/n26/n 28/n29/n30/n38/n40/n41/n48/n66/n70/n71/n75/n7 6/n77/n78/n79; 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; WCDMA B1/B2/B4/B5/B8/B19
ER815-NRQ4-<WLAN/NA>	EU & APAC	5G	5G NR n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n66/n77/n7 8; LTE-FDD B1/B3/B5/B7/B8/B20/B28/B66; LTE-TDD B38/B40/B41; WCDMA B1/B2/B5/B8
ER815-LQ20-<WLAN/NA>	China	Cat.4	LTE-FDD B1/B3/B5/B8; LTE-TDD B34/B38/B39/B40/B41; WCDMA B1/B5/B8; GSM B3/B8
ER815-FQ58-<WLAN/NA>	EU & APAC	Cat.4	LTE-FDD B1/B3/B5/B7/B8/B20/B28; LTE-TDD B38/B40/B41; WCDMA B1/B5/B8

ER815-EN00-<WLAN/NA>	—	No Module	No cellular module
----------------------	---	-----------	--------------------

6. Contact Us

- Website: [InHand Networks](#)
- Copyright: © InHand Networks. All rights reserved.