InHand Networks

Speed · Security · Stability · Simplicity



ER805 Edge Router

· 5G

· SD-WAN

· Cloud-Managed

· Gigabit Ethernet

1. Product Overview

The InHand ER805 is a versatile networking solution that connects stores and offices to the network through 5G/4G cellular or wired broadband to ensure uninterrupted operations and productivity. Equipped with gigabit Ethernet and gigabit Wi-Fi LAN access, the ER805 supports network access for various digital terminals with excellent performance and high availability. Organizations can rely on the ER805 to deliver secure interconnectivity between branches with SD-WAN technology.

Features and Advantages:

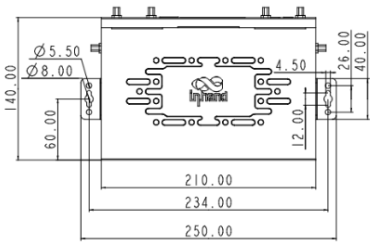
- **Convenient Cellular Access with High-speed 5G:** Global operator 5G access, SA and NSA modes, 2 Gbps downlink for high bandwidth and low latency
- **Plug & Play:** Wired, cellular, and Wi-Fi networking with multiple link-switching strategies
- **SD-WAN:** Combined with InCloud Manager for branch interconnection with flexibility and cost efficiency
- **Centralized Management:** Zero-touch deployment, remote upgrades, visualized monitoring
- **Comprehensive Security:** Firewall, threat identification, and multiple security policies

Core Technical Specifications

Technical Item	Specification
Cellular	5G/4G; SA/NSA Sub-6 & LTE (up to 5.0 Gbps DL NSA / 4.2 Gbps DL SA; LTE up to 2.0 Gbps DL)
Cloud Management	InCloud Manager
SD-WAN / VPN	SD-WAN; IPsec, L2TP, VXLAN, GRE*, OpenVPN*

Technical Item	Specification
Network & Security	IPv4/IPv6; VLAN, DHCP, static routing; NAT
Wi-Fi	802.11ac dual-band (2.4/5 GHz), 1200 Mbps; multi-SSID
Throughput / Users	600 Mbps; IPsec 100 Mbps; 100–150 users
SIM	Dual Nano-SIM
Ethernet / USB	5 × GbE (WAN/LAN, dual WAN); USB 3.0 (debug)
Antennas	4G: SMA ×2; 5G: SMA ×4; Wi-Fi: RP-SMA ×2; ≤5 dBi
Power	9–36 V DC (2 A @ 12 V); peak ≤24 W
Dimensions / Environment	210 × 140 × 35 mm (8.27 × 5.51 × 1.38 in); 1.06 kg (2.34 lb); bracket / wall; -20 °C ~ +70 °C (-4 °F ~ +158 °F) op.; -40 °C ~ +85 °C (-40 °F ~ +185 °F) stg.; 5–95% RH; IP30
EMC / Certification	EMC Level 2; CE, FCC, IC, PTCRB, AT&T, Verizon, T-Mobile

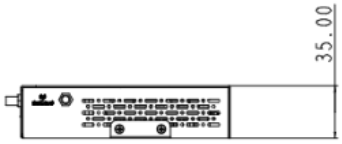
2. Product Dimensions



Front View



Interface Dimensions



Side 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	600 Mbps
IPsec VPN Throughput	100 Mbps
Recommended Users	100–150
RAM	512 MB
Flash	8 GB
Interfaces	
Cellular	5G SA: Sub-6 DL 4.2 Gbps / UL 450 Mbps; 5G NSA: Sub-6 DL 5.0 Gbps / UL 650 Mbps; LTE DL 2.0 Gbps / UL 200 Mbps
Ethernet	5 × 10/100/1000 Mbps, WAN/LAN switching, dual WAN
SIM Card	Dual Nano-SIM
USB	USB 3.0 (debug)
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
Max Rate	1200 Mbps

Category/Parameter	Specification
TX Power	2.4 GHz: 17 dBm; 5 GHz: 17 dBm
Antenna Gain	≤ 5 dBi
Power	
Input	9–36 V DC (2 A @ 12 V)
Peak Power	≤ 24 W
LEDs	
LED	Power, Network, Signal, Wi-Fi
Mechanical	
Dimensions	210 × 140 × 35 mm (8.27 × 5.51 × 1.38 in)
Weight	1.06 kg (2.34 lb)
Installation	Bracket mount, wall mount
Protection	IP30
Environment	
Operating Temperature	-20 °C ~ +70 °C (-4 °F ~ +158 °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
EMC	EMC level 2

4. Software Specifications

Category/Parameter	Specification
Cloud Management	
Platform	InCloud Manager
Features	Unified device access, zero-touch deployment, bulk remote upgrades, configuration deployment, SD-WAN networking, Connector remote maintenance, two-factor authentication
Dashboard	Device connectivity, traffic statistics, cellular signal, interface status, client 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	
Features	Multi-SSID, SSID VLAN, SSID hidden, guest mode, custom splash portal

Category/Parameter	Specification
Encryption	WPA, WPA2, WPA-PSK, WPA2-PSK
Security	
Firewall	3L inbound/outbound rules, port forwarding, SNAT, DNAT
Access Control	Black/white list, domain filtering, Portal authentication, 802.1X
Authentication	Wi-Fi Portal
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, traceroute, Iperf

5. Ordering Information

Model Code

Model code: ER805-\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
ER805-NRQ2-<WLAN/NA>	China	5G	5G NR SA n1/n28*/n41/n77/n78/n79; NSA n41/n78/n79; LTE-FDD B1/B2/B3/B5/B7/B8/B20/B28; LTE-TDD B34/B38/B39/B40/B41; WCDMA B1/B2/B5/B8
ER805-NRQ3-<WLAN/NA>	Global	5G	5G NR n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n48*/n66/n71/n77/n78/n79; LTE-FDD B1/B2/B3/B4/B5/B7/B8/B12(B17)/B13/B14/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71; LTE-TDD B34/B38/B39/B40/B41/B42/B43/B48; WCDMA B1/B2/B3/B4/B5/B6/B8/B19
ER805-LQ20-<WLAN/NA>	China	Cat.4	LTE-FDD B1/B3/B5/B8; LTE-TDD B34/B38/B39/B40/B41; TD-SCDMA B34/B39; WCDMA B1/B8; CDMA BC0; GSM 900/1800 MHz
ER805-FQ39-<WLAN/NA>	North America	Cat.6	LTE-FDD B2/B4/B5/B7/B12/B13/B25/B26/B29/B30/B66; WCDMA B2/B4/B5
ER805-FQ58-<WLAN/NA>	EU & APAC	Cat.4	LTE-FDD B1/B3/B7/B8/B20/B28A; LTE-TDD B38/B40/B41; WCDMA B1/B8
ER805-FQ78-<WLAN/NA>	Australia	Cat.4	LTE-FDD B1/B3/B7/B8/B20/B28A; LTE-TDD B38/B40/B41; WCDMA B1/B8
ER805-EN00-<WLAN/NA>	—	No Module	No cellular module

6. Contact Us

- **Website:** InHand Networks
- **Copyright:** © InHand Networks. All rights reserved.