

Speed · Security · Stability · Simplicity



ER605 Edge Router

· 5G

· SD-WAN

· Cloud-Managed

· Gigabit Ethernet

1. Product Overview

The InHand ER605 is a versatile edge access router 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 ER605 supports network access for various digital terminals with excellent performance and high availability.

Features and Advantages:

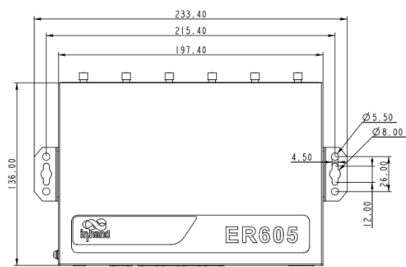
- **SD-WAN:** Combined with InCloud Manager, quickly builds SD-WAN networking for branch interconnection with flexibility and cost efficiency
- **Flexible Connectivity:** Wired broadband, 4G/5G, and Wi-Fi with link backup and load balancing
- **Centralized Management:** InCloud Manager for zero-touch deployment, remote upgrades, and visualized monitoring
- **Gigabit Access:** 5 × GbE with WAN/LAN switching and dual WAN; Wi-Fi 802.11ac, up to 1200 Mbps
- **Cost-Effective:** All-in-one solution for retail, office, and branch networking

Core Technical Specifications

Technical Item	Specification
Cellular	5G/4G; 5G DL up to 2 Gbps (Sub-6)
Cloud Management	InCloud Manager
SD-WAN / VPN	SD-WAN (Spoke); IPsec, L2TP, VXLAN, GRE, SSL VPN
Network & Security	IPv4/IPv6; VLAN, DHCP, routing (static/OSPF/BGP/RIP); NAT; 3L firewall; PPPoE; dual-SIM
Wi-Fi	802.11ac dual-band (2.4/5 GHz), 1200 Mbps; multi-SSID, VLAN, guest, portal

Technical Item	Specification
Throughput / Users	500 Mbps; IPsec 30–50 Mbps; 50–100 users
SIM	Dual Nano-SIM
Ethernet	5 × GbE (WAN/LAN, dual WAN)
Antennas	4G: SMA ×2; 5G: SMA ×4; Wi-Fi: RP-SMA ×2; ≤5 dBi
Power	12 V / 2 A; peak ≤24 W
Dimensions / Environment	198 × 137 × 25 mm (7.8 × 5.39 × 0.98 in); 848 g (1.87 lb); bracket / wall; -10 °C ~ +50 °C (14 °F ~ +122 °F) op.; -40 °C ~ +85 °C (-40 °F ~ +185 °F) stg.; 5–95% RH; IP30
EMC / Certification	EMC Level 2; CE, T-Mobile, Verizon, AT&T

2. Product Dimensions



Front View



Side View



Interface

Note:

1. All dimensions are in millimeters (mm), with inches (in) in parentheses.
2. Dimensions (L × W × H): 198 × 137 × 25 mm (7.8 × 5.39 × 0.98 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	500 Mbps
IPsec VPN Throughput	30–50 Mbps
Recommended Users	50–100
RAM	256 MB
Flash	128 MB
Interfaces	
Cellular	5G, downlink 2 Gbps, Sub-6 (450 MHz–6 GHz); 4G

Category/Parameter	Specification
Ethernet	5 × 10/100/1000 Mbps, WAN/LAN switching, dual WAN
SIM Card	Dual Nano-SIM
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
TX Power	2.4 GHz: 18 dBm; 5 GHz: 17 dBm
Antenna Gain	≤ 5 dBi
Power	
Input	12 V / 2 A
Peak Power	≤ 24 W
LEDs	
LED	Power, Network, Signal, Wi-Fi
Mechanical	
Dimensions	198 × 137 × 25 mm (7.8 × 5.39 × 0.98 in)
Weight	848 g (1.87 lb)
Installation	Bracket mount, wall mount
Protection	IP30
Environment	

Category/Parameter	Specification
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)
EMC	
EMC	Level 2
Certification	
Certification	CE, T-Mobile, Verizon, AT&T

4. Software Specifications

Category/Parameter	Specification
Cloud Management	
Platform	InCloud Manager
Features	Unified device access, centralized configuration, zero-touch remote deployment, bulk upgrades, remote configuration deployment, SD-WAN networking, connector remote maintenance, two-factor authentication
Dashboard	WAN/access/application visibility, traffic statistics, cellular signal, interface status, client analysis
Network Features	
Access	5G/4G, wired, Wi-Fi
Dialing	PPPoE, cellular auto redial, dual-SIM switching, APN configuration

Category/Parameter	Specification
Intelligent Links	Real-time link detection
IP Protocols	IPv4, IPv6
Protocols	VLAN, DHCP (Server/Client), DHCP Snooping, DNS, URL Filtering, DDNS, Fixed Address allocation, IP Passthrough, STP, ARP, ICMP, SNMP
VPN	IPsec VPN, L2TP VPN, VXLAN, GRE, SSL VPN
SD-WAN	SD-WAN (Spoke)
Routing	Static routing, OSPF, BGP, RIP
Wi-Fi	
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
Access Control	Black/white list, domain filtering
Authentication	Portal authentication, 802.1X
Reliability	
Traffic Shaping	QoS based on 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

Category/Parameter	Specification
Diagnostic	
Tools	ICMP, packet capture, traceroute

5. Ordering Information

Model Code

Model code: ER605-\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
ER605-NRF2-<WLAN/NA>	China	5G	5G NR n1/n3/n5/n8/n28/n41/n78/n79; LTE-FDD B1/B3/B5/B7*/B8; LTE-TDD B34/B38/B39/B40/B41; WCDMA B1/B5/B8
ER605-NRQ2-<WLAN/NA>	China	5G	5G NR n1/n3/n5/n8/n28/n41/n77/n78/n79; LTE-FDD B1/B3/B5/B8; LTE-TDD B34/B38/B39/B40/B41; WCDMA B1/B5/B8
ER605-NRF4-<WLAN/NA>	EU & APAC	5G	5G NR n1/3/5/7/8/20/28/n38/40/41/66/71/77/78; LTE-FDD B1/3/5/7/8/20/28/66/71; LTE-TDD B38/40/41; WCDMA B1/B3/B5/B8
ER605-LQ20-<WLAN/NA>	China	Cat.4	LTE-FDD B1/B3/B5/B8; LTE-TDD B34/B38/B39/B40/B41; WCDMA B1/B5/B8; GSM/EDGE B3/B8
ER605-FF39-<WLAN/NA>	North America	Cat.6	LTE-FDD B2/B4/B5/B7/B12/B13/B25/B26/B29/B30/B66; WCDMA B2/B4/B5

ER605-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; GSM/EDGE B3/B8
ER605-FQ59-<WLAN/NA>	EU & APAC	Cat.6	LTE-FDD B1/B3/B5/B7/B8/B20/B28/B32; LTE-TDD B38/B40/B41/B42/B43; WCDMA B1/B3/B5/B8
ER605-EN00-<WLAN/NA>	—	No Module	No cellular module

6. Contact Us

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