InHand Networks

Speed. Security. Stability. Simplicity.

Edge Router800 Series
Cloud-Managed SD-WAN Router

Faced with the ever-increasing digitalization of enterprises, the demand for connecting more branches has increased significantly, efficient and convenient network management solutions are important. InHand launched the ER800 series of cloud-managed edge routers with InCloud Managed cloud services to transform your branch with high-speed, safe, simple, and convenient network solutions.

EdgeRouter800 is a new generation of cloud-managed SD-WAN edge router products that provide convenient secure network access services for enterprise business networks, with both extensive 5G/4G cellular network and wired broadband network. Nevertheless, it has comprehensive security functions to ensures the data and financial security. In addition, in this brand new 5G era, with InCloud Manager cloud services, ER800 can manage devices and networks conveniently.

EdgeRouter800 provides high-speed, secure network connection and one-stop network management service to power your business with unlimited possibilities.

Ideal for a wide range of application scenarios:

- Retail networking
    - Retail stores
    - Fast-food chains
    - Coffee chains
    - Clothing chain stores
    - Stalls...
- Enterprise branches
    - SMB branches
    - SOHO offices
- Smart City
- Smart medical care
- Other IoT industry

Application

Features and Advantages

+ 5G high-speed cellular network access
+ High-speed gigabit networking
+ Maximum 1200Mbps dual-band concurrent, AP/STA mode switching
+ Support Zero Touch deployment
+ Support SD-WAN
+ Refined and visualized network management

• Centralized Cloud Management

As a network access device, the ER805 edge router can realize cloud management with InCloud Manager and helps you to manage thousands of distributed sites all over the world, it monitors your network anytime and anywhere and improves efficiency.

• Omnipresent and Continuous Internet Access Capability: 5G

It is equipped with 5G cellular network access capabilities, fully providing new capabilities and new experiences brought by 5G networks. The high bandwidth, low latency and other features make a better service.

• Global 5G network access, downstream rate 2Gbps, support SA/NS networking
• Gigabit Ethernet, WAN/LAN/VLAN/Dual WAN
• Maximum bandwidth 1200Mbps, support 802.11 ac/a/b/g/n, 2.4G+5G Wi-Fi dual-band

• Zero-Touch Deployment

The integrated cloud design makes deployment easier and more convenient, and deployment can be completed in a few clicks.

• Plug and play
• Scan code APP configuration
• Quick access to cloud services
• InCloud Manager remote configuration

• SD-WAN Highly-reliable and Uninterrupted Network Connection

ER805 integrates hardware, software and cloud services to realize SD-WAN network, therefore ensures uninterrupted high-quality network services. Link redundancy, load balancing, bandwidth management, link failover and other functions can effectively ensure the stability of the business network and reduce the risk of network failures, thus reduce network costs, and increase productivity.

• Refinement of the Network

ER805 makes network configuration easier. Through a simple and easy-to-configure visual interface, traffic is forwarded according to the rules made by IT personnel, which improves network access experience, reduces configuration difficulty, and reduces IT staff workload.

• Access Control, Firewall Policy, Routing, Traffic Shaping
• Various VPNs, digital certificates

• High Network visibility, insight into everything

Visualization and enable IT engineers can gain insights into business problems from data, quickly troubleshoot problems.

• Dashboard, Traffic Statistics, Link Quality, Cellular Signal, Overview
• System log, diagnostic log, device event, email alert settings
• Device remote control, reboot, upgrade, reset
• Network diagnostic tools Ping, Traceroute, packet capture

Dimensions (mm)
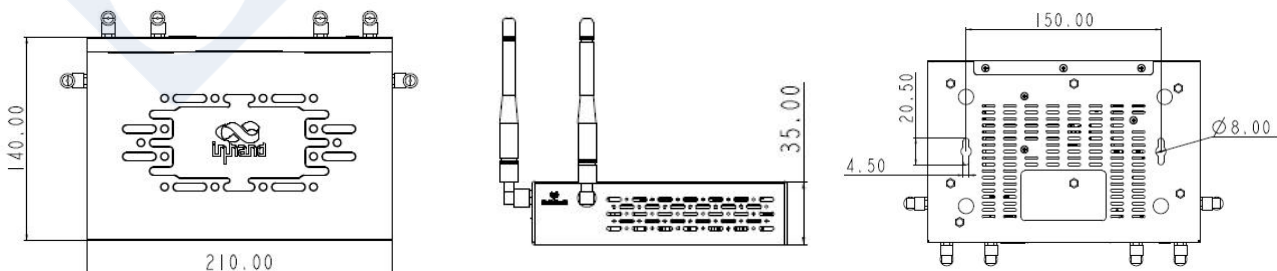
Specifications

ER805 Hardware	
Hardware platform	
Throughput	600Mbps
VPN throughput	200Mbps
Storage	512MB
Flash	8GB eMMC
Recommended users	50
Interface description	
Cellular	5G, downlink 2Gbps,Sub6 (450MHz to 6GHz) 4G
Ethernet port	5*10/100/1000Mbps, Ethernet, Dual WAN/LAN VLAN
USB	1*USB 3.0
SIM	Dual SIM, Nano SIM
Reset	Reset button
Antenna interface	4* 5G or 2* 4G Cellular Antennas 2* Wi-Fi cellular
Wi-Fi	
Frequency	Dual frequency 2.4 / 5GHz Wi-Fi
Transmission bandwidth	Maximum1200Mbps
Transfer Protocol	802.11ac/a/b/g/n Wave2 MU-MIMO
Maximum output power	2.4g:17dBm 5g:17dBm
Operating mode	AP /Client mode
Power Supply	
Pin	Power supply
Input voltage	Input：9-48VDC
Power Consumption	12W
Ambient Temperature and Humidity	
Working Temperature	-20°C ~ + 70°C
Storage Temperature	-40°C ~ + 85°C
Humidity	95%RH at 60°C
Protection Rating	IP30
Installation	
Desk	Desk-top
Wall	Wall mounting
EMC	
Electromagnetic Compatibility	II
Mechanical Features	
Dimensions (mm)	210mm*140mm*35mm
Weight	1.06kg
Features	Wall mounting, metal shell, fan-less cooling
Certificates	
CE, FCC, IC, PTCRB, AT&T, Verizon	

Cloud-based Management ER805 Function	
Completely based on cloud management	
InCloud Manager	Web unified management Zero-touch remote deployment Batch upgrade and management Double authentication Support SD-WAN network connection
Uplink management	
Dial-up service	Support PPPoE, cellular automatic redial, dual SIM switching, APN configuration
Network Access	Multiple network access, 5G/4G cellular network access, ETH network access
Smart Link	Link backup/packet-by-packet load balancing among multiple links Real-time detection of link delay, jitter, and packet loss Supports priority adjustment
Monitoring & Alerting	
DashBoard	Device information, interface status, and refined traffic statistics
Link Monitoring	Link delay, jitter, packet loss, and throughput monitoring
Log & Alarm	System logs, diagnostic logs, device events, email alerts
Network Function	
IP Protocol	IPv4/IPv6*
IP Application	VLAN, DHCP server/client, DNS, DDNS*, fixed address assignment, IP passthrough
Interface Management	Duplex mode, link negotiation rate, interface enable
Wi-Fi	Support 5G and 2.4G Wi-Fi, support multiple SSID settings
Routing	Static routing
VPN	IPSec VPN, L2TP VPN, Open VPN * PEM, PKCS12, SCEP (CA Cert)
Firewall	Firewall filtering NAT, port mapping based on MAC, IP, port, protocol Support access control
Policy management	Policy routing, traffic shaping
Self-recovering	Built-in software and hardware watchdog, self-healing equipment operation failure, to ensure the equipment maintains high availability
Remote maintenance	
Remote Access Control	Support Web/Cli remote access
Cloud Connection	Remote maintenance of PCs, monitoring equipment, servers, PLCs, etc.
Network Diagnostics	Support Ping, Traceroute, network packet capture tools, diagnostic logs
Configuration Backup	Support configuration import and export

Note：The functions marked with * are not implemented yet.

Ordering Guide

Model-\<WMNN\>：Type & Module	Cellular Type	\<W/NA\>：WLAN
ER805-NRQ0-\<WLAN\>	China & Asia Pacific (5G Qualcomm Platform) 5G NR NSA：n41/n77/n78/n79 5G NR SA：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/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/B3/B4/B5/B8/B19	WLAN：Wi-Fi \<NA\>：No Wi-Fi
ER805-NRQ1-\<WLAN\>	China & (5G Qualcomm Platform) 5G NR NSA：n41/n78/n79 5G NR SA：n1/n28/n41/n78/n79 LTE-FDD：B1/B3/B5/B8 LTE-TDD：B34/B38/B39/B40/B41 WCDMA Bands：B1/B8	WLAN：Wi-Fi \<NA\>：No Wi-Fi
ER805-NRQ2-\<WLAN\>	China (5G Zhanrui) 5G NR NSA：n41/n78/n79 5G NR SA：n1/n28*/n41/n77/n78/n79 LTE FDD：B1/B2/B3/B5/B7/B8/B20/B28 LTE TDD：B34/B38/B39/B40/B41 WCDMA：B1/B2/B5/B8	WLAN：Wi-Fi \<NA\>：No Wi-Fi
ER805-NRQ3-\<WLAN\>	Global (except China, 5G Qualcomm platform) 5G NR NSA：n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n48*/n66/n71/n77/n78/n79 5G NR SA：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 LAA：B46 WCDMA Bands：B1/B2/B3/B4/B5/B6/B8/B19	WLAN：Wi-Fi \<NA\>：No Wi-Fi
ER805-LQ20-\<WLAN\>	China LTE CAT4 LTE-FDD Band 1/3/5/8 LTE-TDD Band 34/38/39/40/41 TD-SCDMA Band 34/39 WCDMA Band 1/8 CDMA/EVDO BC0 GSM Band 3/8	WLAN：Wi-Fi \<NA\>：No Wi-Fi
ER805-FQ58-\<WLAN\>	(For Europe & APAC, LTE CAT4) LTE-FDD Band 1/3/7/8/20/28A LTE-TDD Band 38/40/41 WCDMA Band 1/8 GSM Band 3/8	WLAN：Wi-Fi \<NA\>：No Wi-Fi
ER805- FQ39-\<WLAN\>	(For North America, T-Mobile, Verizon, AT&T,LTE CAT6) LTE-FDD：B2/B4/B5/B7/B12/B13/B25/B26/B29/B30/B66 WCDMA：B2/B4/B5	WLAN：Wi-Fi \<NA\>：No Wi-Fi
ER805- FQ78-\<WLAN\>	(For Australia & South America, LTE CAT4) LTE-FDD Band 1/2/3/4/5/7/8/28 LTE-TDD Band 40 WCDMA Band 1/2/5/8 GSM Band 2/3/5/8	WLAN：Wi-Fi \<NA\>：No Wi-Fi
ER805-EN00-\<WLAN\>	NA	WLAN：Wi-Fi \<NA\>：No Wi-Fi