



Speed. Security. Stability. Simplicity.

# 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.

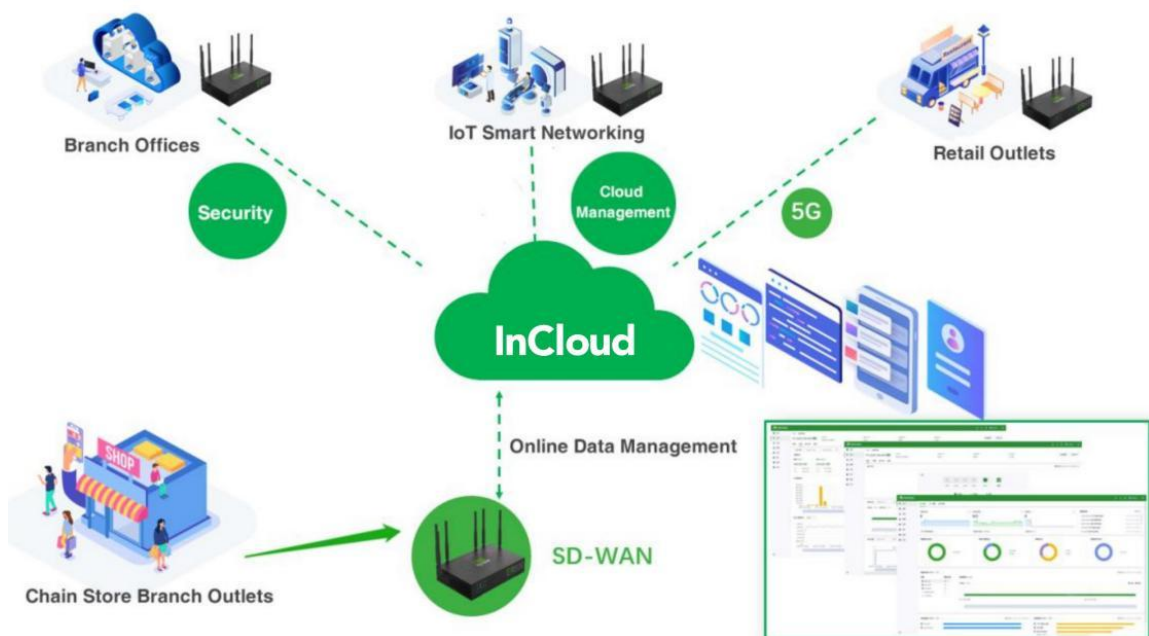
EdgeRouter800 is a new generation of cloud-managed SD-WAN edge router products that provide convenient secure network access services for enterprise business networks, with both extensive 5G/4G cellular network and wired broadband network. Nevertheless, it has comprehensive security functions to ensure 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

- + Centralized cloud management
- + 5G high-speed cellular network access
- + High-speed gigabit WAN/LAN/VLAN networking
- + Maximum 1200Mbps, 2.4G and 5G WiFi dual-band concurrent, AP/STA mode switching
- + Support Zero Touch deployment
- + Support SD-WAN
- + Comprehensive security protection
- + Refined and visualized network management
- + Multiple alarms and diagnostic tools
- + Intelligent 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
- Implement IPv4 and IPv6 dual protocol

### ● 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.

### ● 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

### ● Comprehensive Security Protection

Multi-dimensional security strategy to protect sensitive data and critical businesses from attacks and threats, provides you with a worry-free network.

- Access control and content filtering
- Multiple VPNs, digital certificates
- Authority management, identity authentication
- Prevent DOS attacks and intrusion prevention

### ● Multiple Alarms and Diagnostic Tools

Comprehensive network monitoring, rapid troubleshooting of network failures, ensuring the stability of the network environment, reducing losses caused by network failures, and providing network insurance for business

- Alarm policy setting
- Real-time alarm notification
- Network Diagnostic Tool
- Remote device control

### ● High Network visibility, insight into everything

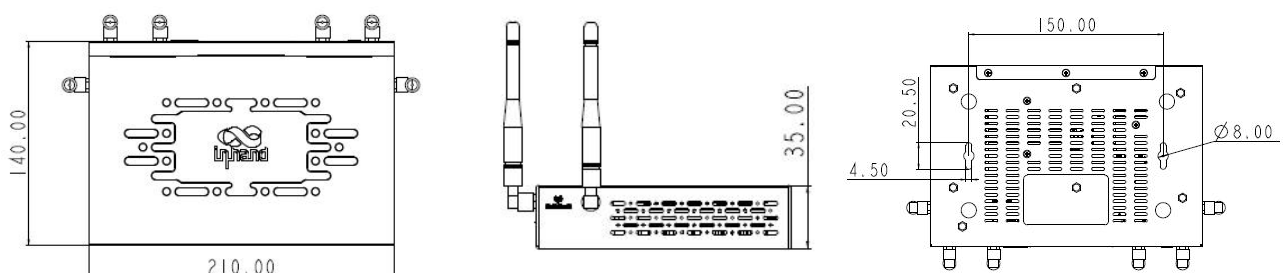
Visualization and refinement of the network is becoming common, IT engineers can gain insights into business problems from data, quickly troubleshoot problems.

- Multi-dimensional data dashboard
- Supports analysis of various data including traffic, applications, equipment, networks, users.
- Practical statistical report
- Overview of business running

### ● Intelligent Network Management

Intelligent management can simplify business operations and improve decision-making. With multi-dimensional data analysis, intelligent alarms, automatic link failover, customized upgrade, batch settings and other intelligent management to make network management easier.

## Dimensions (mm)



# Specifications

ER805 Hardware	
Hardware platform	
Firewall throughput	600Mbps
VPN throughput	200Mbps
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	5G cellular*4, Or 4G cellular*2, Wi-Fi*2
Wi-Fi	
Frequency	Dual frequency 2.4 / 5GHz Wi-Fi
Transmission bandwidth	Maximum 1200Mbps
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
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	Subscribe to InCloud service to realize 100% cloud-based management
Functions	
Dial-up service	Static IP, DHCP, PPPoE, link detection, automatic redial, SIM switch
Network Access	Multiple network access, 5G/4G cellular network access, ETH network access
IP Protocol	IPv6, Ipv4
IP Application	Ping, Traceroute, DHCP server/client, DNS relay, Dynamic domain name DDNS, Telnet, SSH, HTTP, HTTPS, TFTP, FTP, SFTP
Network Function	
WAN/LAN	WAN/LAN
VLAN	VLAN
Port disabled	Supported
Wi-Fi	5G/2.4G Wi-Fi, AP, STA mode
Routing	Support multiple dynamic routing and static routing
Qos	Support protocol-based data control
Network diagnosis	Support Ping, Traceroute, network packet capture tool
Network Security	
VPN	IPsec/L2TP/ GRE/OpenVPN/CA, PEM, PKCS12, SCEP (CA certificated)
Safe access	LDAP, RADIUS, TACACS+, 802.11 WPA2 Enterprise, 802.1Q VLAN/QoS, 802.1X certificated
Heck detection	Supported
Content filtering	Supported
Behavior management	Supported
Hostile attack protection	Supported Filter multicast/ Ping probe packet, anti-Dos attack
Firewall	MAC, IP, port, Application protocol NAT, PAT, DMZ, port mapping, virtual server, Access Control List (ACL)
Reliability	
SD-WAN	SD-WAN, ensures the stability and reliability of WAN link
Back-up and auto-recovery	Interface backup, WAN/WIFI/cellular backup Dual SIM dial link, seamless switching, cellular backup Cellular link failover
Link detection	Multiple detection link mechanisms to realize automatic re-dial when disconnected and maintain link connection
Fault self-recovery	Embedded Watchdog, auto-recovers from operation faults

# Ordering Guide

Model	<WMNN>: Cellular Type & Module	Regions	<W/NA> WLAN
ER805-<WMNN>-<WLAN>	NRQ0 5G NR NSA: n38/n41/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/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	Global (except North America)	WLAN: Wi-Fi <NA>: No Wi-Fi
ER805-<WMNN>-<WLAN>	NRQ3 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/B9/B12(B17)/B13/B14/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71 LTE-TDD: B34/B38/39/B40/B41/B42/B43/B48 LTE Category: DL CAT20/UL CAT 18 LAA: B46 WCDMA: B1/B2/B3/B4/B5/B6/B8/B19	Global (except China)	WLAN: Wi-Fi <NA>: No Wi-Fi
ER805-<WMNN>-<WLAN>	LQ20 LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/B38/B39/B40/B41 TD-SCDMA: B34/B39 WCDMA: B1/B8 CDMA/EVDO: BC0 GSM: B3/B8	China, LTE CAT4	WLAN: Wi-Fi <NA>: No Wi-Fi
ER805-<WMNN>-<WLAN>	FQ58 LTE-FDD: B1/B3/B7/B8/B20/B28A LTE-TDD: B38/B40/B41 WCDMA: B1/B8 GSM: B3/B8	Europe & APAC, LTE CAT4	WLAN: Wi-Fi <NA>: No Wi-Fi
ER805-<WMNN>-<WLAN>	FQ39 LTE-FDD: B2/B4/B5/B7/B12/B13/B25/B26/B29/B30/B66 WCDMA: B2/B4/B5	North America, T-Mobile, Verizon, AT&T, LTE CAT6	WLAN: Wi-Fi <NA>: No Wi-Fi
ER805-<WMNN>-<WLAN>	FQ78 LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE-TDD: B40 WCDMA: B1/B2/B5/B8 GSM: B2/B3/B5/B8	Australia & South America, LTE CAT4	WLAN: Wi-Fi <NA>: No Wi-Fi
ER805-<WMNN>-<WLAN>	EN00 No module		WLAN: Wi-Fi <NA>: No Wi-Fi

## About Us

InHand Networks is a global leader of Industrial IoT, with a record of tremendous success following groundbreaking innovation since our inception in 2001.

InHand serves world-class partners and customers with industrial M2M routers, gateways, industrial Ethernet switches, rugged computers and IoT management platforms. We provide IoT solutions for various vertical markets including Smart Grid, Industrial Automation, Remote Machine Monitoring, Smart Vending, Smart City, Retail and more.

Proudly bearing the marks of both Rockwell Automation Encompass Product Partner in Asia-Pacific and Schneider Electric Technology Partner, InHand Networks defines industrial innovation and reliability.

