



High Stability & Security, Cloud Management Based SD-WAN Router

Edge Router800 series

Embracing the Next-generation - 5G

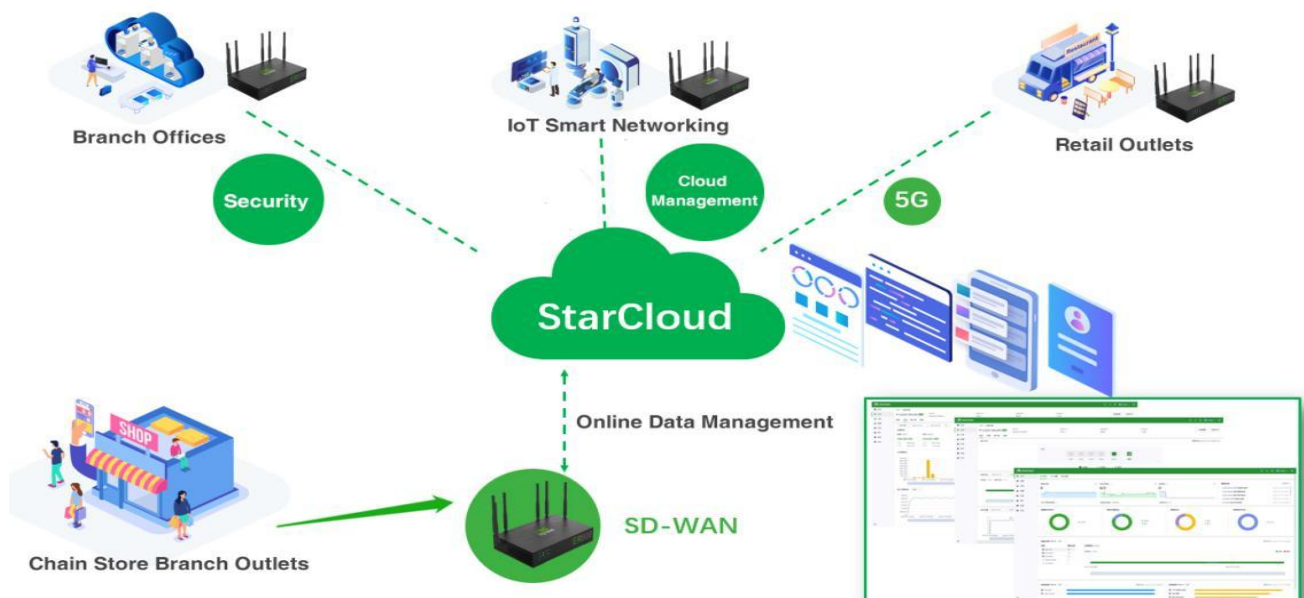
Faced with the ever-increasing digitalization of enterprises, whether it is a commercial organization or a manufacturing enterprise, the demand for connecting more branches and terminals has increased significantly, and efficient and convenient network management solutions are required. InHand launched the ER800 series of edge routers based on cloud management, combined with StarCloud cloud services, to provide global customers with high-speed, safe, simple, and convenient network solutions.

Edge Router 800 is a new generation of cloud-based SD-WAN edge router products that provide convenient secure network access services for enterprise business networks. With extensive 5G/4G cellular network and wired broadband network access, it can provide convenient and high-speed network access services. Moreover, ER805 uses SD-WAN technology to provide a high-quality and stable network. It has integrated security strategies, ensures the security of the rapidly expanding business network. In addition, to adapt to new network trends, ER800 combines with StarCloud cloud services to achieve centralized cloud management, which enable convenient and secure dynamic management of devices and networks. Moreover, by implementing cloud deployment, cloud management, cloud security, cloud insight, and cloud intelligence online, ER805 can achieve efficient network management and keep everything under control.

Ideal for a wide range of application scenarios:

- Branch network
 - Retail convenience store
 - Fast food chain
 - Coffee chain
 - Clothing chain
 - Mobile retail outlets...
- Enterprise branches
 - SMB branches
 - Mobile offices outlets
 - SOHO offices
- Smart City
- Smart medical care
- 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

The ER805 edge router, as a network access device, can realize cloud management based entirely on StarCloud. Through centralized cloud management, ER805 can deepen the convenience, standardization, and scale of network management. It supports cross-regional unified access management for millions of sites, realizing the immediacy of management.

Omnipresent and Continuous Internet Access Capability: 5G

With 5G cellular network based on cloud management, network connection speed and stability has been newly improved. Features including high bandwidth and low latency make services no longer restricted.

- Global operators 5G network access, downstream rate 2Gbps, support SA and NS networking
- Gigabit Ethernet, WAN/LAN/VLAN/Dual WAN
- Maximum bandwidth 1200Mbps, support 802.11 ac/a/b/g/n, 2.4G and 5G dual-band concurrent
- Implement IPv4 and IPv6 dual protocol stacks to build the next-generation Internet network

SD-WAN Highly-reliable and Uninterrupted Network Connection

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

Zero-Touch Deployment

The integrated cloud design makes deployment easier and more convenient, and deployment can be completed with simple operations.

- Plug and play cloud router
- APP scan code configuration
- Quick access to cloud services
- StarCloud cloud configuration

Comprehensive Security Protection

ER805 provides multi-dimensional security strategy to protect sensitive data and critical businesses from attacks and threats, provides you with a worry-free network, and protects your digital assets while the business is developing rapidly.

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

Multiple Alarms and Diagnostic Tools

With comprehensive network monitoring, technical staff can quickly troubleshoot network failures, ensure the stability of the network environment, reduce losses caused by network failures, and provide necessary network insurance for core business development

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

High Network visibility, insight into everything

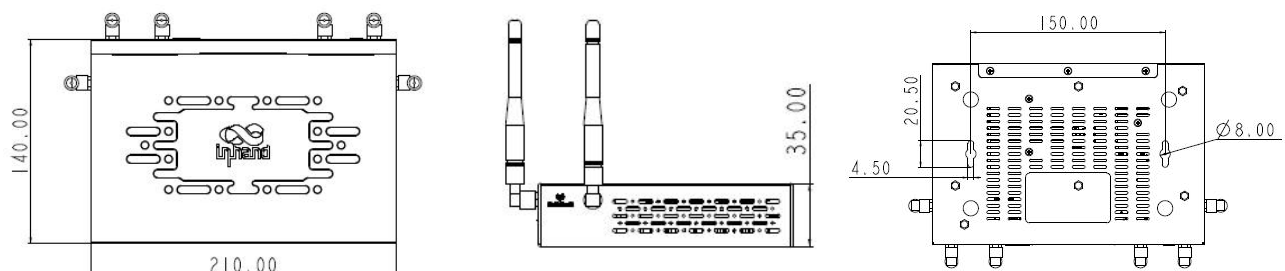
Due to the visualization and refinement of the network, people can gain insights into business problems from data, quickly troubleshoot problems, formulate network management strategies, and ensure the development of key services.

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

Intelligent Network Management

Intelligent management can help IT team simplify operations and improve decision-making. ER805 enables multi-dimensional data analysis, intelligent alarms, automatic link failover, custom upgrade rules, batch settings and other intelligent management ways, making network management easier and more accurate.

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	-25° 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
Certificate	
Electromagnetic Compatibility	II
Mechanical Features	
Dimensions (mm)	210mm*140mm*35mm
Features	Wall mounting, metal shell, fan-less cooling
Certificate	
CE, FCC, IC, PTCRB, AT&T, Verizon	

Cloud Management Based ER805 Function	
Completely based on cloud management	
StarCloud	Subscribe to StarCloud cloud 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
Intrusion detection	Supported
Content filtering	Supported
Behavior management	Supported
Hostile attack protection	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 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 <NA>: No Wi-Fi
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:n2/n5/n7/n12/n25/n41/n48/n66/n71/n77/n78 5G NRSA: n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n66/n71/n77/n78/n79 LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71 LTE-TDD: B34/B38/39/B40/B41/B42/B43/B48 LAA: B46 WCDMA: B1/B2/B3/B4/B5/B6/B8/B19	North America	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	Australia & South America, 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.



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