**InHand Networks**

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 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
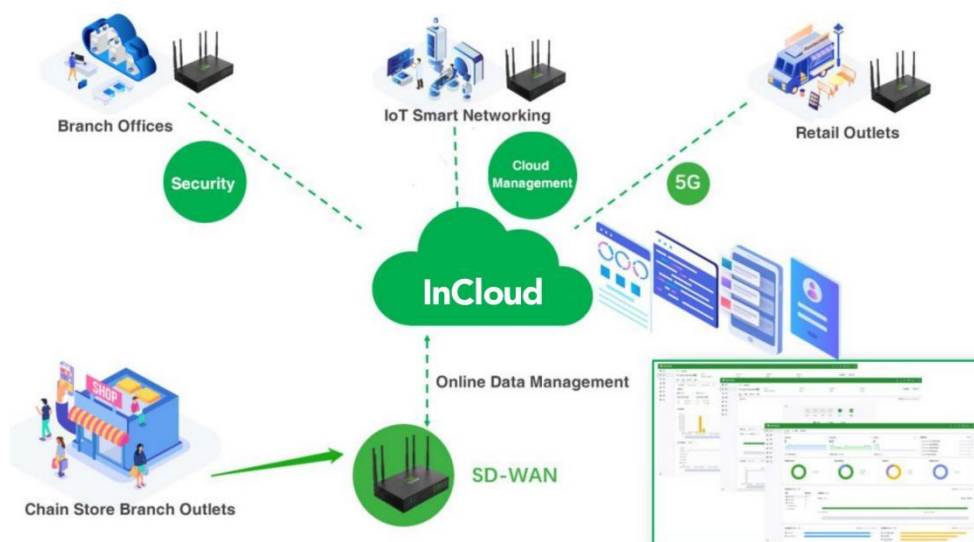
# Features and Advantages

+ 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

● **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)
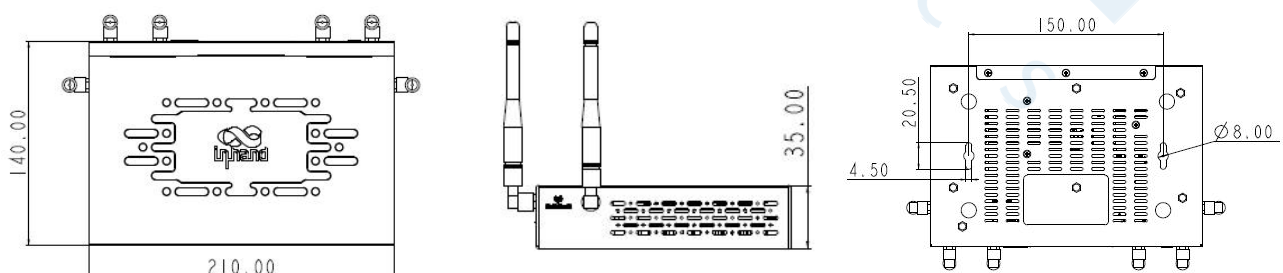
# Specifications

| 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 | 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 |
| 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<br>5G NR SA: n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n48*/n66/n71/n77/n78/n79<br>LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71<br>LTE-TDD: B34/B38/B39/B40/B41/B42/B43/B48<br>WCDMA: B1/B2/B3/B4/B5/B8/B19 | Global (except North America) | WLAN: Wi-Fi<br><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<br>5G NR SA: n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n48*/n66/n71/n77/n78/n79<br>LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B9/B12(B(17)/B13/B14/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71<br>LTE-TDD: B34/B38/39/B40/B41/B42/B43/B48<br>LTE Category: DL CAT20/UL CAT 18<br>LAA: B46<br>WCDMA: B1/B2/B3/B4/B5/B6/B8/B19 | Global | WLAN: Wi-Fi<br><NA>: No Wi-Fi |
| ER805-<WMNN>-<WLAN> | LQ20 | LTE-FDD: B1/B3/B5/B8<br>LTE-TDD: B34/B38/B39/B40/B41<br>TD-SCDMA: B34/B39<br>WCDMA: B1/B8<br>CDMA/EVDO: BC0<br>GSM: B3/B8 | China, LTE CAT4 | WLAN: Wi-Fi<br><NA>: No Wi-Fi |
| ER805-<WMNN>-<WLAN> | FQ58 | LTE-FDD: B1/B3/B7/B8/B20/B28A<br>LTE-TDD: B38/B40/B41<br>WCDMA: B1/B8<br>GSM: B3/B8 | Europe & APAC, LTE CAT4 | WLAN: Wi-Fi<br><NA>: No Wi-Fi |
| ER805-<WMNN>-<WLAN> | FQ39 | LTE-FDD: B2/B4/B5/B7/B12/B13/B25/B26/B29/B30/B66<br>WCDMA: B2/B4/B5 | North America, T-Mobile, Verizon, AT&T, LTE CAT6 | WLAN: Wi-Fi<br><NA>: No Wi-Fi |
| ER805-<WMNN>-<WLAN> | FQ78 | LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28<br>LTE-TDD: B40<br>WCDMA: B1/B2/B5/B8<br>GSM: B2/B3/B5/B8 | Australia & South America, LTE CAT4 | WLAN: Wi-Fi<br><NA>: No Wi-Fi |
| ER805-<WMNN>-<WLAN> | NRQ1 | 5G NR NSA: n41/n78/n79<br>5G NT SA: n1/n28/n41/n78/n79<br>LTE: B1/B3/B5/B8/B34/B38/B39/B40/B41<br>WCDMA: B1/B8 | China | WLAN: Wi-Fi<br><NA>: No Wi-Fi |
| ER805-<WMNN>-<WLAN> | NRQ2 | 5G Sub-6: n1/n28/n41/n77/n78/n79<br>LTE-FDD: B1/B2/B3/B5/B7/B8/B20/B28<br>LTE-TDD: B34/B38/B39/B40/B41<br>WCDMA: B1/B2/B5/B8 | China | WLAN: Wi-Fi<br><NA>: No Wi-Fi |
| ER805-<WMNN>-<WLAN> | EN00 | No module | | WLAN: Wi-Fi<br><NA>: No Wi-Fi |

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