InHand Networks

Speed. Security. Stability. Simplicity.

Edge Router 605
Cloud-Managed SD-WAN Router

As the digital landscape continues to evolve, the demands of branch networks for chain enterprises are becoming increasingly diverse and flexible. Addressing these needs, InHand Networks introduces the cost-effective Edge Router ER600, designed to assist small and medium-sized businesses in reducing investment costs and achieving digital transformation while addressing connectivity requirements.

The ER605 is a versatile in-store networking solution that caters to a variety of demands. It leverages a wide range of 5G/4G cellular and wired broadband network connections for store connectivity and offers 5G link backup to ensure uninterrupted store operation. With its gigabit Ethernet ports and gigabit Wi-Fi LAN access, it supports various end-user devices, delivering exceptional network performance. Additionally, the ER605 supports multiple link switching strategies and features a dual SIM design, ensuring high network availability and uninterrupted business operations. Utilizing SD-WAN technology, it facilitates fast intercommunication between chain stores and headquarters, enhancing communication efficiency. The ER605 provides a comprehensive solution for in-store networking, driving the growth of your business.

Combining the ER600 with the InCloud Manager service enables centralized cloud management, allowing convenient, secure dynamic device and network management. Achieving cloud deployment, cloud management, cloud security, cloud insights, and cloud intelligence in the cloud, it ensures efficient network management, putting in-store networks at your fingertips.

This product is suitable for the networking of unattended devices and sites.

Retail networking	– Retail stores – Fast-food chains – Coffiee chains – Clothing chain stores – Pharmacy chains – Hotel chains
Enterprise branches	– SMB branches – SOHO offices
Smart IoT	– Medical equipment – Robot – Machine Manufacturing

Application

▍Features and Advantages

● Centralized cloud management for easy control

The ER605 Edge Router seamlessly integrates with InCloud Manager, streamlining network management for convenience, standardization, and scalability. Through our centralized cloud platform, InHand Networks allows you to easily control and efficiently manage your network across millions of sites, setting a new standard for your enterprise.

● Embrace 5G, the high-speed next-generation network

The ER605 delivers cloud-managed 5G cellular networks, bringing you a fresh network capability and experience. With features like high bandwidth and low latency, it completely eliminates business constraints, allowing you to build a more powerful and efficient next-generation network. With 5G, your business can thrive without any limitations.

- Global operator 5G network access, 2Gbps downlink speed, supports both SA and NSA network configurations.

● Comprehensive security protection

InHand Networks' network solutions offer a comprehensive network security solution, enabling you to monitor traffic data across networks, applications, endpoints, and the cloud, ensuring your network is protected from threats.
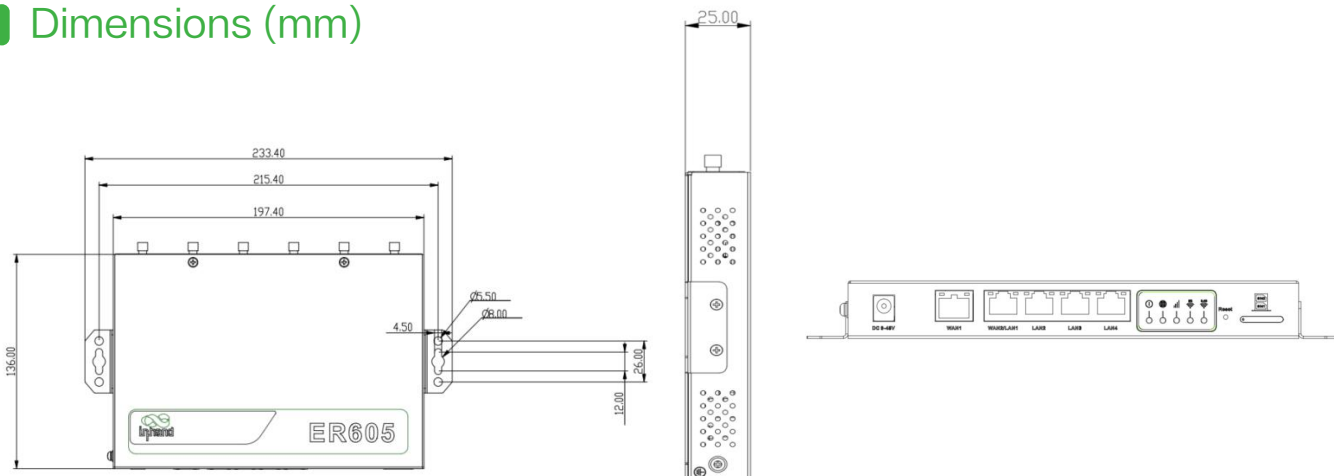
- Remote access control and firewall rules.
- TLS encrypted transmission and two-factor authentication
- Blacklist and whitelist filtering,domain filtering
- 802.1X authentication*, traffic application identification*.

● SD-WAN technology for effortless branch business intercommunication

You simply need to add the ER605 device to the SD-WAN network in the InCloud Manager platform. The platform automatically generates and deploys configurations, and the devices will establish tunnels automatically, quickly creating secure and reliable network connections between branches. This significantly streamlines the process of intercommunication between enterprise branches, reduces complexity, and enhances the availability and performance of your network.

● Outstanding reliability

The ER605 supports various connectivity methods, including wired, broadband, 4G/5G, and offers a range of link switching strategies along with a dual SIM design, ensuring "always online" network services with exceptional reliability.

- Real-time monitoring of link latency, jitter, packet loss, and signal strength.
- Supports wired, broadband, 4G/5G, and Wi-Fi (STA) network access with link backup and load balancing.
- Dual SIM card design with flexible SIM card switching strategies.

● Precision network configuration

The ER605 simplifies network configuration, enabling traffic to be forwarded according to policies set by IT personnel. This not only improves the network access experience but also reduces configuration complexity, easing the workload for IT professionals.

- Policy-based routing, traffic shaping
- Support for multiple VPN protocols like IPsec, L2TP, VXLAN, GRE*
- Dual SIM card design with flexible SIM card switching strategies.
- Blacklist and whitelist filtering,domain filtering

▍Dimensions (mm)

▍InHand **Networks**

Product Specifications

ER605 Hardware Specifications

Item	ER605
Hardware	
Throughput	500Mbps
VPN throughput	100Mbps
Recommended users	50~100
RAM	256 MB
Flash	128 MB
Interfaces	
Cellular	5G, downlink 2Gbps,Sub6 (450MHz to 6GHz), 4G
Ethernet Port	5*10/100/1000Mbps Ethernet, Supports WAN/LAN switching and dual WAN.
Reset Button	Pinhole reset button
SIM Card	Dual-NANO SIM
Antenna Connector	4G: SMA x2; Wi-Fi: RP-SMA x 2 5G: SMA x4; Wi-Fi: RP-SMA x 2
Wi-Fi	
Standard	Wi-Fi 802.11a/b/g/n/ac
Maximum Rate	1200 Mbps
Transmission Power	2.4GHz:18dBm 5GHz:17dBm
Antenna Gain	≤5 dBi
Power	
Standby Power	2A@12V
Peak Power	≤24W

Environment				
Storage Temp.	-40 ~ 85℃	Ambient Humidity	5 ~ 95% (non-condensing)	
Working Temp.	-10~ 50℃	IP Level	IP30	

Indicator	
LED	Power, Network, Signal,Wi-Fi
EMC	
EMC	level 2
Mechanical Specs	
Dimensions	198mm*137mm*25mm
Weight	848 g
Installation	Bracket mount, wall mount.
Certification	
CE	

ER605 Software Features

Cloud Management	
InCloud Manager	Unified device access zero-touch remote deployment bulk upgrades, configuration deployment SD-WAN networking, Connector remote maintenance Two-factor authentication
Visualization	
Dashboard	Device connectivity, platform connectivity status, traffic statistics, cellular signal statistics, interface status, client status.
Uplink management	
Network access	Supports various link types like 5G/4G, wired
Dialing services	Supports PPPoE, cellular automatic redial, dual SIM switching, and APN configuration
Intelligent links	Real-time link detection
Network functions	
IP Protocols	IPv4,IPv6
Network Protocols	VLAN,DHCP（Server/Client）, DNS, DDNS, Fixed address allocation, IP Passthrough, STP, ARP, ICMP
VPN	IPsec VPN, L2TP VPN、VXLAN、GRE*、Open VPN*
SD-WAN	Support SD-WAN networking
Routing	Static routing, OSFP* ,BGP*
Wi-Fi	Supports multiple SSID modes SSID VLAN attributes SSID hiding, guest mode and custom splash portal Encryption methods:WPA、WPA2、WPA-PSK、WPA2-PSK
Security	
Firewall	3L inbound/outbound rules port forwarding SNAT, DNAT Remote access control black and white list filtering Domain filtering Portal authentication. 802.1 X *
Reliability	
Traffic shaping	QoS based on link, IP, and protocol
Upgrades	Supports scheduled upgrades
Logs	Supports runtime logs, diagnostic logs
Events	Supports user logins, connection disconnects, device reboots, and other operational events
Alarms	Supports local email alarms on the device Supports platform SMS and email alarms
Diagnostic tools	ICMP, packet capture, tracert

InHand Networks

Ordering Guide

Model	Model code: ER605-<WMNN>-<WLAN/NA> <WMNN>: Cellular Type & Module	<WLAN/NA>: Wi-Fi
ER605-NRQ1-<WLAN/NA>	China, 5G Qualcomm 5G NR NSA n41/n78/n79 5G NR SA n1/n3/n5/n8/n28/n41/n78/n79 LTE-FDD B1/B3/B5/B8 LTE-TDD B34/B38/B39/B40/B41 WCDMA B1/B8	WLAN: Wi-Fi <NA>: no Wi-Fi
ER605-NRQ2-<WLAN/NA>	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
ER605-NRF2-<WLAN/NA>	China, 5G Zhanrui（LITE） 5G NR n1/n3*/n5/n8/n28/n41/n78/n79 LTE-FDD B1/3/5/7*/8 LTE-TDD B34/38/39/40/41 WCDMA B1/B5/B8	WLAN: Wi-Fi <NA>: no Wi-Fi
ER605-NRQ3-<WLAN/NA>	North America, 5G Qualcomm 5G NR n1/n2/n3/n5/n7/n8/n12/n13/n14/n18/n20/n25/n26/n28/n29/n30/n38/n40/n41/n48/n66/70 n71/n75/n76/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/B4/B5/B8/B19	WLAN: Wi-Fi <NA>: no Wi-F
ER605-NRF4-<WLAN/NA>	EU&APAC, 5G Zhanrui（LITE） 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	WLAN: Wi-Fi <NA>: no Wi-F
ER605-LF20-<WLAN/NA>	China, CAT4 LTE-FDD B1/B3/B5/B8 LTE-TDD B34/B38/B39/B40/B41 TD-SCDMA B34/B39 UMTS（DC-HSPA+）Band 1/8 EVDO/CDMA1x 800MHz EDGE/GPRS/GSM 850/900/1800/1900MHz	WLAN: Wi-Fi <NA>: no Wi-F
ER605-LQ20-<WLAN/NA>	China, CAT4（LITE） FDD B1/B3/B5/B8 TDD B34/B38/B39/B40/B41 WCDMA B1/B5/B8 GSM/EDGE B3/B8	WLAN: Wi-Fi <NA>: no Wi-F
ER605-FQ39-<WLAN/NA>	North America, CAT6 LTE-FDD B2/B4/B5/B7/B12/B13/B25/B26/B29/B30/B66 WCDMA B1/B4/B5	WLAN: Wi-Fi <NA>: no Wi-Fi
ER605-FQ58-<WLAN/NA>	EU&APAC LTE-FDD B1/B3/B5/B7/B8/B20/B28 LTE-TDD B38/B40/B41 WCDMA B1/B5/B8 GSM/EDGE B3/B8	WLAN: Wi-Fi <NA>: no Wi-Fi
ER605-FQ78-<WLAN/NA>	Australia, CAT4 LTE-FDD B1/B3/B5/B7/B8/B20/B28 LTE-TDD B38/B40/B41 WCDMA B1/B5/B8 GSM/EDGE B3/B8	WLAN: Wi-Fi <NA>: no Wi-Fi
ER605-EN00-<WLAN/NA>	No Module	WLAN: Wi-Fi <NA>: no Wi-Fi

About Us

InHand Networks is a leading IoT solutions provider founded in 2001, dedicated to driving digital transformation across industries and empowering customers to unlock their full potential and achieve accelerated growth.

We specialize in delivering industrial-grade connectivity solutions for diverse sectors, such as enterprise networks, industrial and building IoT, digital energy, smart commerce, and mobility. Our comprehensive product portfolio and services cater to various applications worldwide, including smart manufacturing, smart grid, intelligent transportation, smart retail, etc. With a global footprint spanning over 60 countries, we serve customers in China, the United States, France, Germany, the United Kingdom, Italy, and beyond.

InHand Networks

43671 Trade Center Place, Suite 100, Dulles, VA 20166, USA
T: +1 (703) 348-2988
E: info@inhandnetworks.com
www.inhandnetworks.com