

With 3G/4G, Wi-Fi and Link Backup

InRouter615-S Series

Industrial LTE Router



With embedded hardware & software watchdogs and multi-layer link detection mechanism, the router safeguards stable and highly-reliable communications for field sites, especially unattended sites. It also supports InHand DeviceManager to facilitate remote network management.

Multiple VPN encryption technologies can ensure secure data transmission, preventing malicious data access and tampering. The user-friendly WEB interface drastically reduces the difficulty of network configuration.

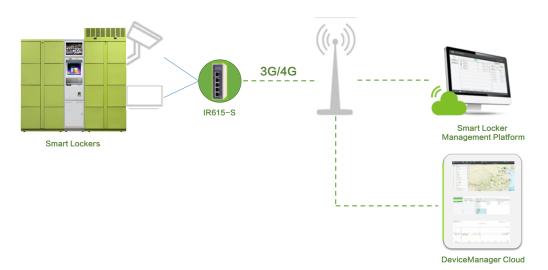
With easy network access, ease of use, and remote management functions, the router provides reliable high-speed data channel for things in the true sense of IoT.



Applicable to a wide range of applications, including largescale networking:

- · Express parcel cabinet
- Branch networking
- Commercial networking
- Public utility: heating station, gas valve room, etc.
- Water treatment
- Security surveillance and criminal investigation
- Smart transportation
- Smart grid
- Smart manufacturing
- Photovoltaic energy
- · Industrial automation, etc.

Application Case



Features and Advantages

- Support 4G LTE CAT4 high-speed network, as well LTE CAT1 and CAT-M low-rate networks
- + Support WLAN
- + 5 Ethernet ports
- + Multiple VPN functions
- + Multiple built-in link redundancies ensure uninterrupted communications
- Support SNMP and InHand
 DeviceManager cloud platform, for
 efficient central network management
- + Support high-efficiency deployment of large-scale device networks
- + Compact sized, easy to fit
- Industrial-grade, ready for challenging conditions

Uninterrupted network access

Supports multiple fast LTE WAN networks. Get device connected through the global covering 3G/4G network regardless of where the device is located. Three LTE network types to choose: LTE CAT4 (150/50Mbps down/uplink), CAT1 (10/5Mbps down/uplink), and CAT-M (375/300Kbps down/uplink).

Support Wi-Fi, both AP & STA modes, to set up secure wireless networks easily. Support 3G/4G and Wi-Fi mutual-backup, further ensuring uninterrupted transmission by providing redundant communication links.

Strong security protection

Transmission security: support IPsec VPN, L2TP, PPTP, OPEN VPN, GRE, and CA certificate.

Network protection: support SPI stateful detection, Secure Shell (SSH), intrusion protection (forbidden ping), DDoS defense, attack defense, IP-MAC binding, etc. to protect against external attacks

Access security: support user hierarchical authorization, implement secure access management by giving different roles different permissions.

· High reliability and stability

Link layer detection: detect link conditions, auto redial when dropped off to maintain link connection.

PPP layer detection: maintain connection to carrier network side, prevent forced hibernation, and keep network link smooth.

VPN tunnel detection: maintain stable connection of VPN tunnels and continuous data transmission.

Device fault self-recovery: embedded hardware watchdog, self-recovers from malfunctions, maintaining high device availability.

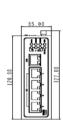
• Network management cloud platform for central management and deployment

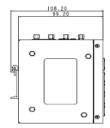
Support InHand DeviceManager (DM) cloud platform to facilitate remote monitoring and central management of large-scale device networks. Batch configure large numbers of devices, improve network deployment and maintenance efficiency.

• Industrial-grade design

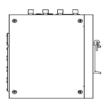
Metal housing, IP30 protection rating. Reach level 3 on EMC indexes. Ethernet port supports 1.5KV isolation protection. Wide operating temperature: -20°C~70°C. Wide voltage input: DC9-36V.

Dimensions (mm)

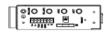








7-PIN Industrial Terminal Interface Definition				
No.	Definition	Description		
1	V+	Positive electrode		
2	V-	Negative electrode		
3	TXD	Serial RS232 sending		
4	RXD	Serial RS232 receiving		
5	GND	Serial RS232 signal ground		
6	А	Serial RS485 +		
7	В	Serial RS485-		





Product Specifications

Ethernet Port	1*10/100Mbps fast Ethernet WAN port 4*10/100Mbps fast Ethernet LAN ports 1.5KV network isolation protection			
Power Supply	DC9-36V			
Industrial Serial Port	RS-232/485 x 1 ESD protection: 15KV			
SIM Card	Drawer-type card slot x 1 Part models: Drawer-type card slot x 2			
Reset	Pinhole reset button			
Antenna Connector	3G/4G: SMA x 2 WLAN: RP-SMA x 2			
Ground Terminal	Has ground terminal			
Mechanical Specs				
Dimensions (mm)	127x108.2x35mm	Weight (g)	440g	
Installation Method	DIN-Rail Optional: Lugs/wall mounting	Protection Rating	IP30	
Housing	Metal housing	Cooling	Fanless	
Power Rate				
Working Power	150mA-320mA@12V	Standby Power	120mA-200mA@12V	
Peak Power	320mA@12V			
	802.11b:16dBm+/-2dBm(11Mbps)		
Transmit Power	802.11b:16dBm+/-2dBm(802.11g:16dBm+/-2dBm(802.11n@2.4GHz: 16dBm+/-2dBm(HT20MC 802.11n@2.4GHz:16dBm	54Mbps) S7)	······································	
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	802.11g:16dBm+/-2dBm(802.11n@2.4GHz: 16dBm+/-2dBm(HT20MC 802.11n@2.4GHz:16dBm	54Mbps) S7)	') -20 ~ 70°C	
Ambient Environme	802.11g:16dBm+/-2dBm(t 802.11n@2.4GHz: 16dBm+/-2dBm(HT20MC 802.11n@2.4GHz:16dBm	54Mbps) S7) +/-2dBm(HT40MCS7 Operating Temperature		
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Ambient Environme Storage Temperature Ambient Humidity Indicator	802.11g:16dBm+/-2dBm(t 802.11n@2.4GHz: 16dBm+/-2dBm(HT20MC 802.11n@2.4GHz:16dBm nt -40 ~ 85°C 5 ~ 95% (non-condensing	54Mbps) S7) +/-2dBm(HT40MCS7 Operating Temperature	-20 ~ 70°C	
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Ambient Environme Storage Temperature Ambient Humidity Indicator LED EMC Index Static Pulsed Electric Field Conducted Disturbance Immunity Power Frequency Magnetic Field	802.11g:16dBm+/-2dBm(t 802.11n@2.4GHz: 16dBm+/-2dBm(HT20MC 802.11n@2.4GHz:16dBm int -40 ~ 85°C 5 ~ 95% (non-condensing POWER, STATUS, WARN EN61000-4-2, level 3 EN61000-4-6, level 3	54Mbps) S7) +/-2dBm(HT40MCS7 Operating Temperature) N, ERROR, WLAN, Li Radiation Electric Field Surge	-20 ~ 70°C INK, signal indicator EN61000-4-3, level 3 EN61000-4-5, level 3	
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Ambient Environme Storage Temperature Ambient Humidity Indicator LED EMC Index Static Pulsed Electric Field Conducted Disturbance Immunity Power Frequency Magnetic Field Resistance Shock Wave Resistance	802.11g:16dBm+/-2dBm(t 802.11n@2.4GHz: 16dBm+/-2dBm(HT20MC 802.11n@2.4GHz:16dBm int -40 ~ 85°C 5 ~ 95% (non-condensing POWER, STATUS, WARN EN61000-4-2, level 3 EN61000-4-6, level 3	54Mbps) S7) +/-2dBm(HT40MCS7 Operating Temperature) N, ERROR, WLAN, Li Radiation Electric Field Surge	-20 ~ 70°C INK, signal indicator EN61000-4-3, level 3 EN61000-4-5, level 3	
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Network Access APN, VPDN Access CHAP/PAP authentication process of personal process of pers		ftware Specifications			
Network Access APN, VPDN Authentication authentication LAN Protocol ARP, Ethernet WAN Protocol Static IP, DHCP, PPP6E, PPP Network Type GSM/GPRS/EDGE, UMTS/HSPA+/EVDO/TD-SCDMA, TDD LTE LTE IP Application Ping, Trace, DHCP Server, DHCP Relay, DHCP Client, DNS relay DDNS, Telnet IP Routing Static routing NAT Support network address translating Network Security Firewall Stateful Packet Inspection (SPI), DoS attack defense; Multicast filter/Ping packet, Access Control List (ACL); Content URL filter, port mapping, virtual IP mapping, IP/MAC bind Access Security IPsec VPN /L2TP/PPTP/GRE/OPEN VPN/CA digital certificate Reliability Backup Dual-SIM mutual backup, VRRP hot backup, link backup Link detection Send heartbeat packets, auto redial when disconnected Embedded Watchdog Device operation self-detection, auto recover from malfunctions WLAN (Optional) Protocol & Standard IEEE 802.11b/g/n Transmission WLAN (Optional) Protocol & AP, STA and WDS modes Werly Mode AP, STA and WDS modes Security Werly Mylipha Transmission distance depends on site environment) Transmission 100m (actual transmission distance depends on site environment) Intelligence Integrated DTU Support conversion of Modbus RTU to Modbus TCP Server mode; Support CoUDP, DCTCP mode; Support CoUDP, DCTCP mode; Support CoUDP, DCTCP mode; Support Coude Status query, configuration, restart Dial-on-demand data / SMS active Management Cost Support InHand DeviceManager, batch management Simple Network Management Support InHand DeviceManager, batch management Simple Network Management Support data traffic threshold setting, support traffic statistics and alarm Alarms Signer Network Support data traffic threshold setting, support traffic statistics and alarm Alarms Signer Network Management Support data traffic threshold setting, support traffic statistics and alarm Protocol Statistics and the second local setting alarm, data traffic alarm, data traffic alarm, can be set of the second local setting alarm.	Network Connection	on			
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PApplication DDNS, Telnet	Network Type	GSM/GPRS/EDGE, UMTS/HSPA+/EVDO/TD-SCDMA, TDD LTE/FDD LTE			
State routing State routing State routing All address translation	IP Application	Ping, Trace, DHCP Server, DHCP Relay, DHCP Client, DNS relay, DDNS, Telnet			
Stateful Packet Inspection (SPI), DoS attack defense; Multicast filter/Ping packet, Access Control List (ACL); Content URL filter, port mapping, virtual IP mapping, IP/MAC bind Access Security Multi-level user authorization Data Security IPsec VPN /L2TP/PPTP/GRE/OPEN VPN/CA digital certificate Reliability Backup Dual-SIM mutual backup, VRRP hot backup, link backup Link detection Send heartbeat packets, auto redial when disconnected Embedded Watchdog Device operation self-detection, auto recover from malfunctions WLAN (Optional) Protocol & Standard IEEE 802.11b/g/n Transmission Rate Up to 300Mbps Working Mode AP, STA and WDS modes Open system, shared key, WPA-WPA2 certification WEP/TKIP/AES encryption Transmission Distance 100m (actual transmission distance depends on site environment) Intelligence Integrated DTU Support conversion of Modbus RTU to Modbus TCP bridge; Support DCUDP, DCTCP mode; Support DCUDP, DCTCP mode; Support DCUDP, DCTCP mode; Support for up to 15 data centers Network Management QoS Management Support bandwidth limit, IP speed limit Configuration Telnet, web, ssh and Upgrade Method Web, Device Mar Console Logs Local system logs, remote logs, and serial export of logs. Power down saving of important logs. SMS Functions Status query, configuration, restart Dial-on-demand Dial-on-demand, data / SMS active Management Support InHand DeviceManager, batch management Simple Network Management Support InHand DeviceManager, batch management Simple Network Management Support data traffic threshold setting, support traffic statistics and alarm Alarms System restart alarm, LAN port online/offline alarm, data traffic alarm alarm, alarm alarm, LAN port online/offline alarm, data traffic alarm card failure alarm, alarm, alarm and the statistics and the statisti	IP Routing	Static routing	NAT	Support network address translation	
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Dual-SIM mutual backup, VRRP hot backup, link backup	Reliability				
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Integrated DTU Functions Support DCUDP, DCTCP mode; Support DCUDP, DCTCP mode; Support for up to 15 data centers Network Management Cos Management Configuration Method Console Local system logs, remote logs, and serial export of logs. Power down saving of important logs. SMS Functions Status query, configuration, restart Network Management Support InHand DeviceManager, batch management Simple Network Management Support data traffic threshold setting, support traffic statistics and alarm Alarms System restart alarm, LAN port online/offline alarm, data traffic alacard failure alarm, etc. Maintenance Bing route tracking pathwork speed test	Intelligence				
QoS Management Support bandwidth limit, IP speed limit Configuration Method Telnet, web, ssh and console Upgrade Method Web, Device Mar Logs Local system logs, remote logs, and serial export of logs. Power down saving of important logs. SMS Functions Status query, configuration, restart Dial-on-demand data / SMS active Network Management Support InHand DeviceManager, batch management SIMP v1/v2c/v3, support SNMP TRAP Traffic Management Support data traffic threshold setting, support traffic statistics and alarm Alarms System restart alarm, LAN port online/offline alarm, data traffic alarard failure alarm, etc. Maintenance Ping route tracking pathwork speed test		Support conversion of M Support DCUDP, DCTCF	odbus RTU to Modbus mode;		
Management Support bandwidth limit, IP speed limit Configuration Method Telnet, web, ssh and console Logs Local system logs, remote logs, and serial export of logs. Power down saving of important logs. SMS Functions Status query, configuration, restart Dial-on-demand data / SMS activated by Support InHand DeviceManager, batch management Simple Network Management SIMP v1/v2c/v3, support SNMP TRAP Traffic Management Support data traffic threshold setting, support traffic statistics and alarm Alarms System restart alarm, LAN port online/offline alarm, data traffic alacard failure alarm, etc.	Network Managen	nent			
Method console Upgrade Method Web, Device Mar Logs Local system logs, remote logs, and serial export of logs. Power down saving of important logs. SMS Functions Status query, configuration, restart Dial-on-demand data / SMS active Network Management Support InHand DeviceManager, batch management Simple Network Management SNMP v1/v2c/v3, support SNMP TRAP Traffic Support data traffic threshold setting, support traffic statistics and alarm Alarms System restart alarm, LAN port online/offline alarm, data traffic alacard failure alarm, etc.		Support bandwidth limit,	IP speed limit		
Power down saving of important logs. SMS Functions Status query, configuration, restart Dial-on-demand data / SMS active Network Management Support InHand DeviceManager, batch management Simple Network Management SNMP v1/v2c/v3, support SNMP TRAP Traffic Management Support data traffic threshold setting, support traffic statistics and alarm System restart alarm, LAN port online/offline alarm, data traffic alacard failure alarm, etc.			Upgrade Method	Web, Device Manager	
Network Management Simple Network Management Simple Network Management SNMP v1/v2c/v3, support SNMP TRAP Traffic Management Support data traffic threshold setting, support traffic statistics and alarm Alarms System restart alarm, LAN port online/offline alarm, data traffic alacard failure alarm, etc. Maintenance Dial-on-demand data / SMS activation and traffic statistics and traffic statistics and traffic alacard failure alarm, etc.	Logs			ort of logs.	
Management Support InHand DeviceManager, batch management Simple Network Management SNMP v1/v2c/v3, support SNMP TRAP Traffic Management Support data traffic threshold setting, support traffic statistics and alarm Alarms System restart alarm, LAN port online/offline alarm, data traffic alacard failure alarm, etc. Maintenance Ding route tracking patwork speed test	SMS Functions		Dial-on-demand	Dial-on-demand, data / SMS activation	
Management Traffic Management Support data traffic threshold setting, support traffic statistics and alarm Alarms System restart alarm, LAN port online/offline alarm, data traffic ala card failure alarm, etc. Maintenance Ding route tracking potwerk speed test		Support InHand DeviceManager, batch management			
Management alarm System restart alarm, LAN port online/offline alarm, data traffic ala card failure alarm, etc. Maintenance		SNMP v1/v2c/v3, support SNMP TRAP			
Alarms card failure alarm, etc. Maintenance Ping route tracking network enced test		Support data traffic threshold setting, support traffic statistics and traffic alarm			
	Alarms	System restart alarm, LAN port online/offline alarm, data traffic alarm, S card failure alarm, etc.			
		Ping, route tracking, netv	vork speed test		
Status Query System status, modern status, network connection status, and rostatus	Status Query	System status, modem status, network connection status, and routing status			



Ordering Guide

	Model code: IR615-S- <wmnn>-<w na="">-<ds ns=""></ds></w></wmnn>			
Model	<wmnn>; Cellular Type & Module U-UMTS(HSPA), L-LTE single mode, L3-LTE triple-mode, L5-LTE 5-mode, L7-LTE 7-mode</wmnn>	<w na="">: WLAN</w>	<ds na="">: Dual SIM</ds>	
IR615-S-U/(PS08/30108) - <w na="">-<ds na=""></ds></w>	(Global) UMTS(HSPA+) Band 1/2/5/8 (850/900/1900/2100MHz) EDGE/GPRS/GSM 850/900/1800/1900	W: Wi-Fi <na>: no Wi-Fi</na>	<ds>: dual SIM <na>: single SIM</na></ds>	
IR615-S -U/(PH09/30207) - <w na=""></w>	UMTS(HSPA+) Band 1/8 (900/2100MHz) EDGE/GPRS/GSM 850/900/1800/1900	W: Wi-Fi <na>: no Wi-Fi</na>	<na>: RS232 485: RS485</na>	
IR615-S-L5/(TH09/60218) - <w na="">-<ds na=""></ds></w>	(China) LTE-FDD Band 1/3/8 LTE-TDD Band 38/39/40/41 TD-SCDMA Band 34/39 UMTS (DC-HSPA+) Band 1/5/8/9 EDGE/GPRS/GSM 900/1800MHz	W: Wi-Fi <na>: no Wi-Fi</na>	<na>: RS232 485: RS485</na>	
IR615-S-L7/(TL01/60522) - <w na="">-<ds na=""></ds></w>	(China) LTE-FDD Band 1/3/5/8 LTE-TDD Band 38/39/40/41 TD-SCDMA Band 34/39 UMTS (DC-HSPA+) Band 1/8 EVDO 800MHz CDMA 1x 800MHz EDGE/GPRS/GSM 850/900/1800/1900MHz	W: Wi-Fi <na>: no Wi-Fi</na>	<na>: RS232 485: RS485</na>	
IR615-S-L3/(FH20/60220)- <w na=""><ds na=""></ds></w>	(Europe, Asia Pacific) LTE-FDD Band 1/2/3/4/5/7/8/20 UMTS(DC-HSPA+) Band 1/2/5/8 EDGE/GPRS/GSM 850/900/1800/1900MHz	W: Wi-Fi <na>: no Wi-Fi</na>	<na>: RS232 485: RS485</na>	
IR615-S-FB78- <w na="">-<ds na=""></ds></w>	(Australia & S.America) LTE-FDD CAT4 Band 1/3/5/7/8/28 UMTS(DC-HSPA+) 850/900/1900/2100	W: Wi-Fi <na>: no Wi-Fi</na>	<na>: RS232 485: RS485</na>	
IR615-S-FB53- <w na="">-<ds na=""></ds></w>	(Europe) LTE-FDD CAT1 Band 3/7/20 EDGE/GPRS/GSM 900/1800MHz	W: Wi-Fi <na>: no Wi-Fi</na>	<na>: RS232 485: RS485</na>	
IR615-S-FB63- <w na=""></w>	(Asia Pacific) LTE-FDD CAT1 Band 3/8/28 UMTS(DC-HSPA+) 2100	W: Wi-Fi <na>: no Wi-Fi</na>	<na>: RS232 485: RS485</na>	
IR615-S-FS18 - <w na=""></w>	(AT&T, North America) LTE-FDD Band 2/4/5/17 UMTS(HSPA+) Band 2/4/5 EDGE/GPRS/GSM 850/900/1800/1900MHz	W: Wi-Fi <na>: no Wi-Fi</na>	<na>: RS232 485: RS485</na>	
IR615-S-FB38- <w na=""></w>	(Verizon Wireless, North America) LTE-FDD CAT4 Band 2/4/5/13/17 UMTS(DC-HSPA+) Band 2/5	W: Wi-Fi <na>: no Wi-Fi</na>	<na>: RS232 485: RS485</na>	
IR615-S-FB13- <w na=""></w>	(AT&T, North America) LTE-FDD CAT1 Band 2/4/12	W: Wi-Fi <na>: no Wi-Fi</na>	<na>: RS232 485: RS485</na>	
IR615-S-FB23- <w na=""></w>	(Verizon Wireless, USA) LTE-FDD CAT1 Band 4/13	W: Wi-Fi <na>: no Wi-Fi</na>	<na>: RS232 485: RS485</na>	
IR615-S-FT43- <w na=""></w>	(Sprint, USA) LTE-FDD CAT1 Band 2/4/5/12/25/26	W: Wi-Fi <na>: no Wi-Fi</na>	<na>: RS232 485: RS485</na>	
IR615-S-FB02- <w na=""></w>	(Global) (Band 39 in M1-only) LTE CATM/NB Band 1/2/3/4/5/8/12/13/17/18/19/20/25/26/28	W: Wi-Fi <na>: no Wi-Fi</na>	<na>: RS232 485: RS485</na>	
IR615-S-EN00	No cellular module	W: Wi-Fi <na>: no Wi-Fi</na>	<na>: RS232 485: RS485</na>	
Example:	IR615-S-L5-WLAN: five Ethernet ports IR615-S series cellular router, mode) network, support Wi-Fi AP&STA modes, RS232 or RS-485 ser		EN VPN, support 4G LTE (5-	

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 CAPP Technology Partner, while listed on NEEQ 430642 as of February 18, 2014, InHand Networks defines industrial innovation and reliability.



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