

Compact Industrial LTE Router

InRouter315

· 4G

· Wi-Fi

Security

· Cloud-Managed

· Rich Industrial Interfaces

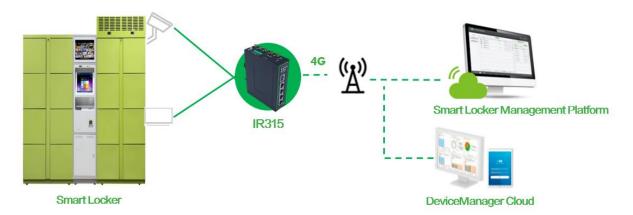


The IR315 is an IoT cellular router that integrates 4G LTE, Wi-Fi, and VPN technologies to provide easy, reliable, and secure Internet connectivity. With features such as 4G wireless wide area network and Wi-Fi wireless local area network, it offers uninterrupted access to multiple networks. With comprehensive security and intelligent software services, it enables efficient and secure networking, providing enterprises with safe and reliable data links for digital networking.





Solution



Features and Advantages

Diverse access methods covering all scenarios

IR315 has the capability to access the Internet through cellular, wired, and Wi-Fi connections, catering to different network environments. It provides differentiated cellular network services based on varying business requirements.



• "Always-on" connectivity

The IR315 comes with 4G/wired/Wi-Fi backup, cellular link failover, dual SIM switching, VRRP, multi-layer detection mechanism, and other features, providing a reliable and robust connection to ensure your network stability and reliability.



Secure Network Connection

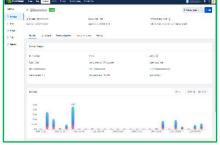
The IR315 is equipped with firewall policies, access control, built-in VPN, data encryption, enhanced Wi-Fi security, and other features, effectively ensuring the security of the network.

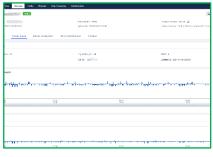


• Device Manager-Cloud management

The IR315 connects to the InHand Device Manager remote device management cloud platform to manage tens of thousands of distributed site devices in real time and grasp device status anytime and anywhere, making management more economical and more efficient!







Take Control

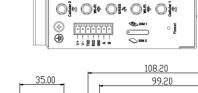
Real-time Monitoring

Industrial Terminal IR315

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Critical Status

Dimensions (mm)



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DIO1 DIO2 COM DIO3 DIO4

V+ V- TXD RXD GND A B



Product Specifications

InRouter315 Hardw	are Sp	ecifications				
Hardware Platform						
CPU	5801	1Hz				
RAM	128M	В				
FLASH	64M	64MB SPI				
Interface						
Ethernet Port		10/100Mbps fast Ethernet port, RJ45,WAN/LAN/VLAN port, KKV network isolation transformer protection				
Power Supply	DC9-	DC9-36V, over-current protection, anti-reverse connection, 2 PIN industrial terminal				
IO (Optional)	Supp	Support 4 x IO (DO or IO can be configured)				
Serial port (Optional)	1 x R	x RS232 +1 x RS485				
*Alternatives for I/O	or Seri	al port				
Reset	Pinh	ole reset button				
SIM Card	1 x Dı	awer-type slot, su	pport dual-NANC	SIM		
Wi-Fi (Optional)	IEEE	802.11b/g/n, 300N	Mbps			
GNSS (Optional)		oort GPS/ GLONAS ioning accuracy is		o/ QZ	SS	
Antenna Connector	1×SN	MA for LTE, 2 x RP-	SMA for Wi-Fi,1 x	SMA	for GNSS	
Ground Terminal	Supp	oorts				
Mechanical Specs						
Dimensions	127x	108.2x 35mm	Weight		454g	
Installation	Din-	rail	Protection Rati	ng	IP30	
Housing	Met	al	Cooling		Fanless	
Power rate						
Standby power	120m	120mA-200mA@12V				
Working power	150mA-320mA@12V					
Peak power	320mA@12V					
Wi-Fi Transmit Powe	r					
Transmit Power	802.11b:16dBm+/-2dBm(11Mbps) 802.11g:16dBm+/-2dBm(54Mbps) 802.11n@2.4GHz:16dBm+/-2dBm(HT20MCS7) 802.11n@2.4GHz:16dBm+/-2dBm(HT40MCS7)					
Ambient Environme			, 200(,	
Storage Temperature		~ 85℃	Operating Temperature	-20	~70℃	
Ambient Humidity	5~9	5% (no condensing				
Indicator		,	··			
	Powe	er, System, Cellula	r. Wi-Fi			
LED	Sign					
EMC						
Static		EN61000-4-2, level 3				
Radiation Electric Fie	eld	EN61000-4-3, level 3				
Pulsed Electric Field		EN61000-4-4, level 3				
Surge		EN61000-4-5, level 3				
Conducted Disturbance Immunity		EN61000-4-6,level 3				
Shock Wave Resistar	nce	EN61000-4-12,level 3				
Power Frequency Magnetic Field Resistance		EN61000-4-8, horizontal / vertical 400A/m (>level 2)				
Physical Specs			Vibration	IFC		
Physical Specs Shockproof	IEC	60068-2-27	Resistance	IEC	60068-2-6	
		60068-2-27 60068-2-32		IEC	00068-2-6	

InRouter315 Software	e Specifications
Network Connection	
Network Access	APN, VPDN
Access	
Authentication	CHAP/PAP
Network Type	GSM/GPRS/EDGE, UMTS/HSPA+/EVDO/TD-SCDMA/, TDD LTE/FDD LTE (Please refer to the Ordering Guide for frequencies)
LAN protocol	ARP, Ethernet
WAN protocol	Static IP, DHCP, PPPoE
Network Protocol	
IP Application	IPv4, Ping, Trace, DHCP Server, DHCP Relay, DHCP Client, DNS relay, DDNS, Telnet, IP Passthrough
IP Routing	Static routing, OSPF dynamic routing
NAT	Supports network address translation
Security	
Network Security	Stateful Packet Inspection (SPI), DoS attack defense; Multicast filter/Ping probe packet, Access Control List (ACL); Content URL filter, port mapping, virtual IP mapping, IP-MAC binding
Data Security	Supports PPTP, L2TP, GRE, IPSEC VPN (IKEv1, IKEv2), OPENVPN, DMVPN, WireGuard, ZeroTier Supports CA digital certificate
Reliability	
Hot Backup	VRRP hot backup
Link Detection	Sends heartbeat packets to detect, auto redials when disconnected
Dual SIM Failover	Supports dual SIM failover
Embedded Watchdog	Device runs self-detection, auto recovers from malfunctions
WLAN (Optional)	
Protocol	IEEE 802.11b/g/n
Rate	Up to 300Mbps
Security	Open system, shared key, WPA/WPA2 certification WEP/TKIP/AES encryption
Transmission Distance	80 meters by line of sight (Actual transmission distance depends on environment of the site.)
Intelligence	
Integrated DTU Functions	TCP, UDP transparent transmission mode, TCP Server mode Supports conversion of Modbus RTU to Modbus TCP bridge Supports DCUDP, DCTCP mode
Network Managemen	ıt
QoS Management	Bandwidth limit, IP speed limit
Configuration	Telnet, Web, SSH and console
Update	Web, Device Manager
Log	Local system log, remote log, and serial export of log. Power down saving of important logs.
SMS Functions	Status query, restart
Dial-on-demand	Dial-on-demand, data / SMS activation
Network management	Supports InHand Device Manager, batch management Add the user experience plan to access The InHand Networks cloud platform to enjoy efficient and convenient services
SNMP	SNMP v1/v2c/v3, supports SNMP TRAP
Traffic Management	Supports data traffic threshold, traffic statistics and traffic alarm
Alarm	System restart alarm, LAN port online/offline alarm, data traffic alarm, SIM card failure alarm ,etc.
Maintenance Tools	Ping, route tracking, network speed test
Status Query	System status, modem status, network connection status, and routing status



Ordering Guide

Model	<wmnn>: Cellular Type & Module</wmnn>	<wlan na="">: Wi-Fi</wlan>	<s na="">: Serial/IO</s>	G: GNSS
IR315-FQ58-< WLAN /NA>-<\$/NA>	(For Europe & APAC, CAT 4) FDD: B1/ B3/ B5/ B7/ B8/ B20 /B28 TDD: B38/ B40/ B41 WCDMA: B1/ B5/ B8 GSM: B3/ B8	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232+1*RS485 <na>: 4*IO</na>	NA
IR315-FQ58-< WLAN /NA>-<\$/NA>-G	(For Europe & APAC, CAT 4) FDD: B1/B3/B7/B8/B20/B28A TDD: B38/B40/B41 WCDMA: B1/B8 GSM: B3/B8	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232+1*RS485 <na>: 4*IO</na>	G: GNSS
IR315-FQ78- <wlan na="">-<\$/NA></wlan>	(For Australia, Latin America, CAT 4) FDD: B1/ B2/ B3/ B4/ B5/ B7/ B8/ B28 TDD: B40 WCDMA: B1/ B2/ B5/ B8 GSM: B2/ B3/ B8/ B8	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232+1*RS485 <na>: 4*IO</na>	NA
R315-FF39- <wlan na="">-<s na="">-<g na=""></g></s></wlan>	(For North America, CAT 6) LTE FDD: B2/ B4/ B8/ B7/ B12/ B13/ B14/ B17/ B25/ B26/ B29/ B30/ B66/ B71 LTE TDD: B41/ B42/ B43/ B46/ B48 WCDMA: B2/ B4/ B5	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232+1*RS485 <na>: 4*IO</na>	G: GNSS <na>: no GN</na>
IR315-FQ88- <wlan na="">-<s na=""></s></wlan>	(For Japan, CAT 4) LTE FDD: B1/B3/B8/B18/B19/B26 LTE TDD: B41 WCDMA: B1/B5/B8/B19 GSM: B2/B3/B5/B8	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232+1*RS485 <na>: 4*IO</na>	NA
IR315-EN00- <wlan na="">-S</wlan>	NA	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232+1*RS485	NA
IR315-NRQ2- <wlan na="">-<s na=""></s></wlan>	(For China, SG) SG NR NSA n41/n77/n78/n79 SG NR SA n1/n3/n51/n8/n28/n41/n77/n78/n79 LTE-FDD BJ/83/B5/B8 LTE-TDD BJ/83/B36/B39/B40/B41 WCDMA BJ/B5/B8	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232+1*RS485 <na>: 4*IO</na>	NA
IR315-LQ20- <wlan na="">-<s na=""></s></wlan>	(For China, CAT4) FDD: B1/B3/B5/B8 TDD: B34/B38/B39/B40/B41 WCDMA: B1/B5/B8	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232+1*RS485 <na>: 4*IO</na>	NA

Example: IR315-FQ58-WLAN: Five Ethernet ports IR315 series cellular router with Wi-Fi, support IPSec / PPTP / L2TP / OPEN VPN.

Note: Users are asked to join InHand User Experience Plan at first time login. If user agreed to join, the router will connect to InHand DeviceManager portal. If users want to disable it, please go to Services->User Experience Plan to change the setting.



InHand Remote Operation and Maintenance Solution

InConnect is a simple "plug & play" service that builds secure remote networks for your machines (IPCs, IP cameras, PLCs, HMIs, RTUs, controllers, etc.). Engineers can use InConnect to realize remote maintenance, program downloads, and log diagnostics. InConnect helps enterprises quickly connect to globally distributed business locations, empowering enterprises in their IT infrastructure and digital transformation initiatives.



InConnect Service

- Centralized management
- · Efficient zero touch deployment
- Simplified network configuration
- Multi-dimensional security



4G Industrial Router IR302

- Multilink Backup & Dual SIM failover
- VPN networking
- Serial Port, I/O
- EMC Level 2
- IP30, -20~70°C, DC 9~36V

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.



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