

Compact Industrial LTE Router

InRouter315

- · 5G/4G
- · Wi-Fi
- Security
- · Cloud-Managed
- · Rich Industrial Interfaces

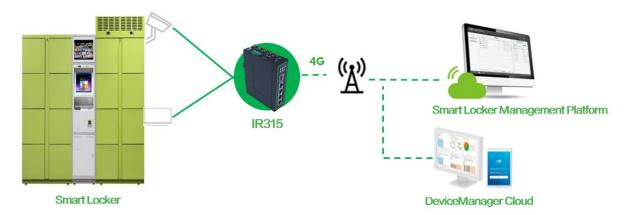


The IR315 is an IoT cellular router that integrates 5G/4G LTE, Wi-Fi, and VPN technologies to provide easy, reliable, and secure Internet connectivity. With features such as 4G wireless wide area network and Wi-Fi wireless local area network, it offers uninterrupted access to multiple networks. With 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 Cellular/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

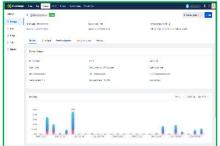
The IR315 is equipped with firewall policies, access control, built-in VPN, data encryption, enhanced Wi-Fi security, and other features, effectively ensuring the security of the network.

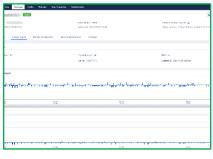


• Device Manager-Cloud management

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!





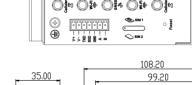


Take Control

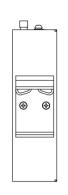
Real-time Monitoring

Critical Status

Dimensions (mm)



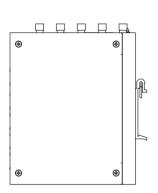
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Industrial Terminal IR315

Power Supply

V+ V-Power Supply IR315-S



DIO1 DIO2 COM DIO3 DIO4

TXD RXD GND

Dimensions: 127x 108.2x 35(mm)



Product Specifications

InRouter315 Hardwa	are Sp	eemeations				
Hardware Platform						
CPU	580N	1Hz				
RAM	128MB					
FLASH	H 64MBSPI					
Interface						
Ethernet Port	1.5K	5°10/100Mbps fast Ethernet port, RJ45,WAN/LAN/VLAN port, 1.5KV network isolation transformer protection				
Power Supply		36V, over-current strial terminal	protection, anti-r	evers	e connection, 2 PIN	
IO (Optional)	Supp	oort 4 x IO (DO or I	O can be configu	red)		
Serial port (Optional)		5232 + 1 x RS485 protection: 15KV				
*Alternatives for I/O						
Reset		ole reset button				
				CIM		
SIM Card		awer-type slot, su		JSIM		
Wi-Fi (Optional)		802.11b/g/n, 3001		0/0-	ee	
GNSS (Optional)	Support GPS/ GLONASS /BeiDou /Galileo/ QZSS Positioning accuracy is 2.5 meter					
Antenna Connector	2 x SMA for LTE 2 x RP-SMA for Wi-Fi 1 x SMA for GNSS					
Ground Terminal	Supp	oorts				
Mechanical Specs						
Dimensions	127x	108.2x35mm	Weight		454g	
Installation		rail, wall ınting	Protection Rati	ng	IP30	
Housing	Met	al	Cooling		Fanless	
Power rate						
Standby power	120m	A-200mA@12V				
Working power		A-320mA@12V				
Peak power		nA@12V				
Wi-Fi Transmit Powe						
Will industrie owe		11h:16d8m+/-2d8r	m(IIMhns)			
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		III (@2.401 12.100B)	111 1/-2GBITI(ITI40	IVIC37	,	
			0			
Storage Temperature	-40	~ 85℃	Operating Temperature	-20	~70℃	
Ambient Humidity	5~95	5% (no condensing	a)			
Indicator						
LED	Power, System, Cellular, Wi-Fi Signal					
EMC						
Static		EN61000-4-2, level 3				
		EN61000-4-2, level 3 EN61000-4-3, level 3				
Radiation Electric Field						
Pulsed Electric Field		EN61000-4-4, level 3				
Surge Conducted Disturba	nce	EN61000-4-5, level 3 EN61000-4-6, level 3				
Immunity		EN61000-4-6, level 3 EN61000-4-12, level 3				
Shock Wave Resistance Power Frequency Magnetic Field		EN61000-4-8, horizontal / vertical 400A/m (>level 2)				
Resistance		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Physical Specs						
Physical Specs	IFC	20000 2 27	Vibration	IF.C.	20000 2.0	
Physical Specs Shockproof Free Fall		50068-2-27 50068-2-32	Vibration Resistance	IEC	50068-2-6	

CE, E-MARK, IMDA, RCM, FCC, IC, PTCRB, Verizon, AT&T, T-Mobile, MIC&	JATE, UL, C1D2,
IEC 62443-4-2, EN 18031	

Status Query

Note: The functions marked with * are not available yet.

InRouter315 Software	e Specifications		
Network Connection			
Network Access	APN, VPDN		
Access Authentication	СНАР/РАР		
Network Type	${\sf GSM/GPRS/EDGE, UMTS/HSPA+/EVDO/TD-SCDMA/, TDD LTE/FDD LTE, 5G SA} eq:gamma-gam$		
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 Supports 802.1X		
Data Security	Supports PPTP, L2TP, GRE, IPSEC VPN (IKEv1, IKEv2), OPENVPN(Client&Server), 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 Supports DTU status monitoring		
Network Managemen	t		
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		



 $System\,status, modem\,status, network\,connection\,status, and\,routing\,status$

Ordering Guide

Model code: IR315- <wmnn>-<wlan na="">-<s na="">-<g na=""></g></s></wlan></wmnn>					
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, Australia, New Zealand, CAT 4) FDD: B1/B3/BS/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- <s na="">-G</s>	(For Europe & APAC, CAT 4) FDD: BJ/B3/ B7/ B8/ B20/ B28A TDD: B38/ B40/ B41 WCDMA: BJ/ B8 GSM: B3/ B8	WLAN: Wi-Fi	S: 1*RS232+1*RS485 <na>: 4*IO</na>	G: GNSS	
IR315-FQ68- <wlan na="">-S</wlan>	(For Latin America, CAT 4) FDD: BI/B2/B3/B4/B5/B7/B8/B28/B66 TDD: B40 WCDMA: B1/B2/B4/B5/B8 GSM: B2/B3/B5/B8	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232+1*RS485	NA	
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/ B5/ B8	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232+1*RS485 <na>: 4*IO</na>	NA	
IR315-FQ78-WLAN-G	(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/ B5/ B8	WLAN: Wi-Fi	<na>: 4*IO</na>	G: GNSS	
IR315-FF39- <wlan na="">-<s na=""></s></wlan>	(For North America, CAT 6) LTE FDD: B2/ B4/ B5/ B7/ B12/ B13/ B14/ B17/ B25/ B26/ B29/ B30/ B66/ B71 LTE TDD: B4/ 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>	NA	
IR315-FF39-WLAN-S-G	(For North America, CAT 6) LTE FDD: B2/ B4/ B5/ B7/ B12/ B13/ B14/ B17/ B25/ B26/ B29/ B30/ B66/ B71 LTE TDD: B4/) B42/ B43/ B46/ B48 WCDMA: B2/ B4/ B5	WLAN: Wi-Fi	S: 1*RS232+1*RS485	G: GNS	
IR315-FQ38- <wlan na="">-<s na=""></s></wlan>	(For North America, CAT 4) LTE FDD:B2/B4/B5/B12/B13/B17/B66/B71 WCDMA: B2/B4/B5	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232+1*RS485 <na>: 4*IO</na>	NA	
IR315-FQ88- <wlan na="">-S</wlan>	(For Japan, CAT 4) LTE FDD: B1/ B3/ B8/ B18/ B19/ B26 LTE TDD: B41 WCDMA: B1/ B6/ B8/ B19	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232+1*RS485	NA	
IR315-EN00- <wlan na="">-S</wlan>	NA	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232+1*RS485	NA	
IR315-LQ20- <wlan na="">-S</wlan>	(For China, CAT4) FDD: B1/B3/ B5/ B8 TDD: B34/B38/ B39/B40/B41 WCDMA: B1/B5/ B8 GSM: B3/ B8	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232+1*RS485	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.

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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