

Compact Industrial LTE Router

InRouter315

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

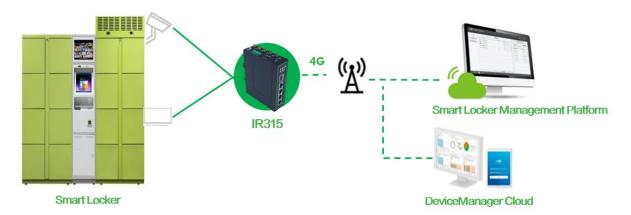


The IR315 is an IoT cellular router that integrates 4G LTE, Wi-Fi, and VPN technologies to provide easy, reliable, and secure Internet connectivity. With features such as 4G wireless wide area network and Wi-Fi wireless local area network, it offers uninterrupted access to multiple networks. With comprehensive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

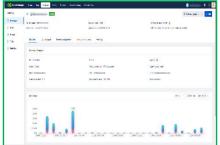
The IR315 is equipped with firewall policies, access control, built-in VPN, data encryption, enhanced Wi-Fi security, and other features, effectively ensuring the security of the network.

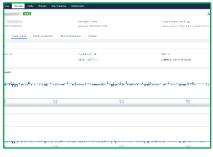


• Device Manager-Cloud management

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!





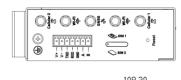


Take Control

Real-time Monitoring

Critical Status

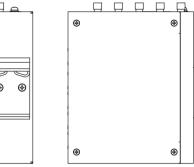
Dimensions (mm)



35.00 99.20
12000

	IK2T2						
	V+	V-	DIO1	DIO2	сом	DIO3	DIO4
	Power	Supply			Ю		
	IR315-9	6					
	V+	V-	TXD	RXD	GND	Α	В
	Power	Supply		RS232		RS4	185
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Industrial Terminal







Product Specifications

Hardware Platform							
CPU	580N	1Hz					
RAM	128MB						
FLASH	64MI	3SPI					
Interface							
Ethernet Port	5°10/100Mbps fast Ethernet port, RJ45, WAN/LAN/VLAN port, 1.5KV network isolation transformer protection						
Power Supply		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		1x RS232 + 1x RS485					
Optional) ESD protection: 15KV *Alternatives for I/O or Serial port							
	Alternatives for I/O or Serial port reset Pinhole reset button						
Reset SIM Card		awer-type slot, su	pport dual NANC	CINA			
		802.11b/g/n, 300h) SIIV			
Wi-Fi (Optional)		ort GPS/ GLONAS		n/ 07	'\$\$		
GNSS (Optional)		ioning accuracy is		-, 44			
Antenna Connector	2 x RI	2 x SMA for LTE 2 x RP-SMA for Wi-Fi 1 x SMA for GNSS					
Ground Terminal	Ground Terminal Supports						
Mechanical Specs							
Dimensions	127x	108.2x 35mm	Weight		454g		
Installation		rail, wall Inting	Protection Rati	ng	IP30		
Housing Metal Cooling Fanless							
Power rate							
Standby power	120m	A-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 Environmer			, 23511(11140)				
Storage Temperature		~ 85°C Operating Temperature -20~70°C		l~ 70°C			
Ambient Humidity	5~95	% (no condensing					
Indicator	J J.	, condensing	,,				
	Power	er, System, Cellula	r. Wi-Fi				
LED	Signa						
EMC							
Static		EN61000-4-2, level 3					
Radiation Electric Field		EN61000-4-3, level 3					
Radiation Electric Fie		EN61000-4-4, level 3					
Radiation Electric Field		EN61000-4-4, lev					
		EN61000-4-4, lev EN61000-4-5, lev					
Pulsed Electric Field	nce		el 3				
Pulsed Electric Field Surge Conducted Disturbar		EN61000-4-5, lev	el 3				
Pulsed Electric Field Surge Conducted Disturbar Immunity		EN61000-4-5, lev EN61000-4-6, lev EN61000-4-12, lev	el 3	400/	V/m (>level 2)		
Pulsed Electric Field Surge Conducted Disturbar Immunity Shock Wave Resistan Power Frequency Magnetic Field		EN61000-4-5, lev EN61000-4-6, lev EN61000-4-12, lev	el 3 el 3	4004	√m (>level 2)		
Pulsed Electric Field Surge Conducted Disturbar Immunity Shock Wave Resistan Power Frequency Magnetic Field Resistance	nce	EN61000-4-5, lev EN61000-4-6, lev EN61000-4-12, lev	el 3 el 3		V/m (>level 2) 60068-2-6		

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

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	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 Supports 802.1X
Data Security	Supports PPTP, L2TP, GRE, IPSEC VPN (IKEV), 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
Status Query	System status, modem status, network connection status, and routing status



Ordering Guide

Model code: IR315- <wmnn>-<wlan na="">-<s na="">-</s></wlan></wmnn>					
Model	<wmnn>: Cellular Type & Module</wmnn>	<wlan na="">: Wi-Fi</wlan>	<s na="">: Serial/IO</s>	G: GNS	
IR315-FQ58-< WLAN /NA> <s na=""></s>	(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- <s na="">-G</s>	(For Europe & APAC, CAT 4) FDD: BI/ B3/ B7/ B8/ B20/ B28A TDD: B38/ B40/ B41 WCDMA: BI/ B8 GSM: B3/ B8	WLAN: Wi-Fi	S: 1*RS232+1*RS485 <na>: 4*IO</na>	G: GNSS	
IR315-FQ53- <wlan na="">-<s na=""></s></wlan>	(For Europe & APAC, CAT 1) FDD: B1/B3/B7/B8/B20/B28A WCDMA: B1/B8	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232+1*RS485 <na>: 4*IO</na>	NA	
IR315-FQ78- <wlan na="">-<\$/NA></wlan>	(For Australia, Latin America, CAT 4) FDD: Bl/ B2/ B3/ B4/ B5/ B7/ B8/ B28 TDD: B40 WCDMA: Bl/ 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/ B5/ 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 GI</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: BI/ B3/ B5/ B8 FDD: B34/ B38/ B39/ B40/ B41 WCDMA: BI/ 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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