

Compact Industrial Router
4G LTE, Dual SIM and Dual Ethernet Ports*

InRouter302 Series Industrial LTE Router



The InRouter302 (IR302) is an IoT cellular router that integrates 4G LTE, Wi-Fi, and VPN technologies to provide an easy, reliable, and secure Internet connectivity. With technologies such as 4G wireless wide area network and Wi-Fi wireless local area network, it provides uninterrupted multiple network access capabilities, and with its comprehensive security and wireless services, it realizes up to 10,000-level equipment networking and provides high-speed data access for equipment networking.

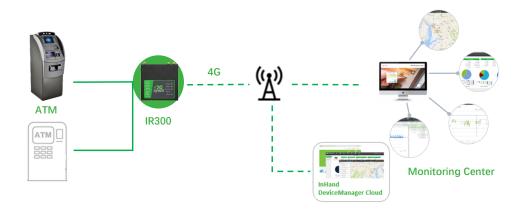
This product is suitable for the networking of unattended devices and sites. It is embedded with watchdog and multi-layer link detection mechanisms to ensure reliable and stable communications. The router can be deployed easily to build large scale networks scaling up to tens of thousands of devices. Using our InHand Device Manager cloud platform, users can manage their network efficiently.

The IR302 can be used in a wide range of industrial and commercial IoT applications, providing an option of good balance between cost and performance.

Key industries:

- Smart Commerce
 - ATM, POS
 - Unattended kiosk
 - Digital signage
 - Retail stand
- Smart Energy
 - EV charging
 - Power distribution, Meter reading
- Smart City
 - Heat & Water supply
 - Gas supply security, Traffic management
- Smart Manufacturing
 - Medical device networking and other applications

Application Case



Features and Advantages

- Supports both high-speed LTE CAT 4
 and low-speed LTE CAT 1 CAT M1/NB

 loT networks
- + Dual Ethernet ports, WAN/LAN
- + Multiple VPN protocols
- Built-in link redundancy, dual-SIM failover, ensure uninterrupted communications
- Supports InHand Device Manager cloud platform for efficient central network management
- + Compact in size, easy to install

Uninterrupted network access

Supports fast LTE WAN networks for business continuity and WAN diversity. Get device connected easily with the widely available 4G cellular network. Three optional network types: LTE CAT 4 (150/50Mbps DL/UL), LTE CAT 1 (10/5Mbps DL/UL), and LTE CAT M1 (1119/588kbps, DL/UL) and NB-IoT(127/158.5kbps DL/UL).

Supports Wi-Fi, both AP & STA modes, for users to easily set up secure wireless networks. Supports 802.11b/g/n, transmission rate up to 150Mbps, WEP/WPA/WPA2 encryption. Failover between 4G and Wi-Fi or 4G and WAN, effectively ensuring uninterrupted data transmission.

Strong security protection

- Data transmission: IPsec VPN (IKEv1, IKEv2), L2TP, PPTP, OPEN VPN, GRE and CA certificate.
- Network protection: supports SPI (Stateful Packet Inspection), SSH (Secure Shell), intrusion protection (forbidden ping), DDoS defense, attack defense, IP-MAC binding, etc., protecting the network against external attacks.
- Device access: supports user hierarchical authorization (CLI only), implementing secure access management by providing different roles and different permissions.

· High reliability and stability

- Link layer detection: continuously detecting and auto redials when dropped off to maintain link connection.
- Dual SIM failover: automatically switches to the more stable carrier network.
- PPP layer detection: maintains connection to the carrier network, preventing forced hibernation, keeping network communications smooth.
- VPN tunnel detection: maintains stable connection of the VPN tunnel, ensuring continuous transmission.
- Device self-recovery: embedded hardware watchdog, self-recovers from malfunctions, maintaining high device availability.

Easy to use

Allows multiple network management methods including CLI, WEB, and a network management platform. Functions of the WEB interface are grouped according to the habits of IT personnel, which logic is clear immediately.

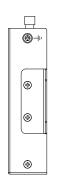
Central management and deployment

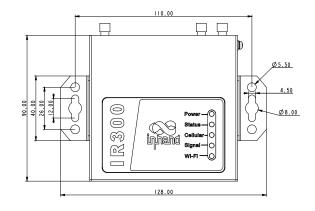
Supports InHand Device Manager cloud platform to facilitate remote monitoring and central management of large-scale device networks. Batch configure large numbers of devices, efficiently deploying and managing device networks. Add the user experience plan to access The InHand Networks cloud platform to enjoy efficient and convenient services.

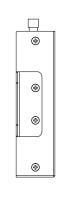
Industrial-grade design

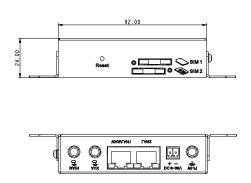
Metal shell, IP30 protection. Level 2 on EMC. Ethernet ports support 1.5KV isolation transformer protection. Wide operating temperature: -20°C~70°C. Wide voltage input: DC9-36V.

Dimensions (mm)











Product Specifications

Ethernet Port IF302: 2*10/100Mbps fast Ethernet port, LAN/WAN port 1.5KV network isolation transformer protection Serial Port No serial port No serial port D2-36V, over-current protection, anti-reverse connection, 2 PIN industrial terminal block Reset Button Pinhole reset button Dual drawer-type SIM card slots. 2FF SIM Wi-Fi (Optional) IEEE 802.11b/g/n, 150Mbps 3G/4G: SMA 1; Wi-Fi: RP-SMA x 1 Antenna Note: North America models (FO38, FQ33): 2 x SMA 4G antenna connectors Ground Terminal Supports Weight 259g Installation Panel mounting, rail mounting Protection Rating IP30 Installation Panel mounting, rail mounting Protection Rating IP30 Installation Panel Method Cooling Fanless Power Rate Working Power 100-120mA@12V Standby Power 80-90mA@12V Wi-Fi Transmit Power 802.11b:16dBm +/-2dBm(11Mbps) 802.11rg 2 dHz: 16dBm +/-2dBm(HT20 MCS7) 8	Hardware Platform				
Received	CPU Platform	580MHz	RAM	128MB DDR2	
Ethernet Port I.58/02: 2*10/100Mbps fast Ethernet port, LAN/WAN port 1.58/V network isolation transformer protection Serial Port No serial port Power Supply DC9-36V, over-current protection, anti-reverse connection, 2 PIN industrial terminal block Reset Button Pinhole reset button SIM Card Dual drawer-type SIM card slots. 2FF SIM Wi-Fi (Optional) IEEE 802.11b/g/n, 150Mbps Antenna Connector Antenna Connector Supports Weight 259g Bround Terminal Supports Weight 259g Brownsiallation Wechanical Specs Dimensions 90 x 90 x 25mm Weight 259g Installation Panel mounting, rail protection Rating IP30 Housing Metal Cooling Fanless Power Rate Working Power 100-120mA@12V Standby Power 80-90mA@12V Wi-Fi Transmit Power Wi-Fi Transmit Power Wi-Fi Transmit Power 100-120mA@12.0V Wi-Fi Transmit Power 802.11b:16dBm +/-2dBm(11Mbps)	Flash				
Serial Port No serial port Power Supply DC9-36V, over-current protection, anti-reverse connection, 2 PIN industrial terminal block Reset Button Pinhole reset button SIM Card Dual drawer-type SIM card slots. 2FF SIM Wi-Fi (Optional) IEEE 802.11b/g/n, 150Mbps Antenna Gonnector Note: North America models (FQ38, FQ33): 2 x SMA 4G antenna connectors. Siround Terminal Supports Mechanical Specs Dimensions 90 x 90 x 25mm Weight 259g Dimensions 90 x 90 x 25mm Weight 259g Housing Metal Cooling Fanless Power Rate Working Power 100-120mA@12V Standby Power 80-90mA@12V Peak Power 190mA@12.0V Wi-Fi Transmit Power Transmit Power 190mA@12.0V Wi-Fi Transmit Power 100-120mA@12.0V 100-120	Interface				
Power Supply DC9-36V, over-current protection, anti-reverse connection, 2 PIN industrial terminal block Reset Button Pinhole reset button Dual drawer-type SIM card slots. 2FF SIM Wi-Fi (Optional) IEEE 802.11b/g/n, 150Mbps Antenna Ocnnector Vice North America models (FQ38, FQ33): 2 x SMA 4G antenna connectors. Ground Terminal Supports Mechanical Specs Dimensions 90 x 90 x 25mm Weight 259g Installation Panel mounting, rall mounting Protection Rating P30 Housing Metal Cooling Fanless Power Rate Working Power 100-120mA@12V Standby Power 80-90mA@12V Peak Power 190mA@12.0V Wi-Fi Transmit Power Transmit Power Transmit Power 802.11b:16dBm +/-2dBm(11Mbps) 802.11b:16dBm +/-2dBm(15Mbps) 802.11m@2.4Ghbz.16dBm +/-2dBm(HT20 MCS7) 802.11m@2.4Ghbz.16dBm +/-2dBm(HT20 MCS7) 802.11m@2.4Ghbz.16dBm +/-2dBm(HT40 MCS7) Ambient Environment Storage Femperature 40 ~ 85°C Operating Femperature 20 ~ 70°C Static EN61000-4-2, level 2 Fadiation Electric Field EN61000-4-3, level 2 Field EN61000-4-4, level 2 Surge EN61000-4-3, level 2 Conducted Disturbance EN61000-4-8, horizontal / vertical 400A/m (>level 2) Power Frequency Magnetic Field EN61000-4-8, horizontal / vertical 400A/m (>level 2) Physical Specs Physical Specs Shockproof IEC60068-2-27 Wibration Resistance IEC60068-2-6	Ethernet Port				
industrial terminal block Resel Button Pinhole reset button Dual drawer-type SIM card slots. 2FF SIM Wi-Fi (Optional) IEEE 802.11b/g/n, 150Mbps Antenna 3G/4G: SMAx 1; Wi-Fi: RP-SMAx 1 Note: North America models (FQ38, FQ33): 2 x SMA 4G antenna connectors. Ground Terminal Supports Mechanical Specs Dimensions 90 x 90 x 25mm Weight 259g Installation Methan Panel mounting, rail mounting Method Power Rate Working Power 100-120mA@12V Standby Power 190mA@12.0V Wi-Fi Transmit Power Transmit Power 802.11b:16dBm +/-2dBm(11Mbps) 802.11b:16dBm +/-2dBm(54Mbps) 802.11n:@2.4GHz:16dBm +/-2dBm(HT20 MCS7) 802.11n:@2.4GHz:16dBm +/-2dBm(HT40 MCS7) 802.11n:@2.4GHz:16dBm +/-2dBm(H	Serial Port	No serial port			
Dual drawer-type SIM card slots. 2FF SIM	Power Supply		rotection, anti-reverse	connection, 2 PIN	
### Antenna Garder Section Garder Garder Section Garder Section Garder Section Garder Garder Garder Section Garder Garder	Reset Button	Pinhole reset button			
Antenna Oconnector Note: North America models (FQ38, FQ33): 2 x SMA 4G antenna connectors. Ground Terminal Supports Mechanical Specs Dimensions 90 x 90 x 25mm Weight 259g Installation Method Panel mounting, rail mounting Protection Rating IP30 Housing Metal Cooling Fanless Power Rate Working Power 100-120mA@12V Standby Power 80-90mA@12V Peak Power 190mA@12.0V Wi-Fi Transmit Power Transmit Power Transmit Power Ambient Environment Storage Temperature 40 ~ 85°C Operating Temperature Power Autor Ambient Humidity 5 ~ 95% (non-condensing) Indicator LED Power, Status, Cellular, Wi-Fi, cellular Signal EMC Static EN61000-4-2, level 2 Fadiation Electric Field EN61000-4-5, level 2 Conducted Disturbance EN61000-4-6, level 2 Power Frequency Magnetic Field EN61000-4-8, horizontal / vertical 400A/m (>level 2) Physical Specs Shockproof IEC60068-2-27 Vibration Resistance IEC60068-2-6	SIM Card	Dual drawer-type SIM ca	ard slots. 2FF SIM		
Antenna Connector Note: North America models (FQ38, FQ33): 2 x SMA 4G antenna connectors. Ground Terminal Supports Mechanical Specs Dimensions 90 x 90 x 25mm Weight 259g Installation Panel mounting, rail mounting Protection Rating Protection R	Wi-Fi (Optional)	IEEE 802.11b/g/n, 150M	bps		
Connector Note: North America models (FQ38, FQ33): 2 x SMA 4G antenna connectors. Ground Terminal Supports Mechanical Specs Dimensions 90 x 90 x 25mm Weight 259g Installation Panel mounting, rail mounting Protection Rating Panel mounting Panel mounting Protection Rating Panel Protection Rating Panel Protection Rating Panel Protection Rating Protecti		3G/4G: SMA x 1; Wi-Fi: RP-SMA x 1			
Mechanical Specs Parallel Parallel Specs Parallel Specs Parallel Specs Parallel Specs Parallel P	Antenna Connector	Note: North America models (FQ38, FQ33): 2 x SMA 4G antenna			
Dimensions 90 x 90 x 25mm Weight 259g	Ground Terminal	Supports			
Installation Method Panel mounting, rail mounting Protection Rating Protection Ratin	Mechanical Specs				
Installation Method Method Mounting, rail mounting Method Method Mounting Method Method Method Mounting Method Met	Dimensions		Weight	259g	
Power Rate Working Power 100-120mA@12V Standby Power 80-90mA@12V	Installation Method	Panel mounting, rail	Protection Rating	IP30	
Norking Power 100-120mA@12V Standby Power 80-90mA@12V	Housing	Metal	Cooling	Fanless	
Normal N	Power Rate				
Substitute Static EN61000-4-2, level 2 Radiation Electric Field EN61000-4-5, level 2 EN61000-4-12, level	Working Power	100-120mA@12V	Standby Power	80-90mA@12V	
Ro2.11b:16dBm +/-2dBm(11Mbps) 802.11g:16dBm +/-2dBm(54Mbps) 802.11n:2.4GHz:16dBm +/-2dBm(HT20 MCS7) 802.11n:2.4GHz:16dBm +/-2dBm(HT40 MCS7)	Peak Power	190mA@12.0V		.i	
S02.11g:16dBm +/-2dBm(54Mbps) 802.11n@2.4GHz:16dBm +/-2dBm(HT20 MCS7) 802.11n@2.4GHz:16dBm +/-2dBm(HT40 MCS7) 802.2GHz:16dBm +/-2dBm(HT40 MCS7) 802.2GH	Wi-Fi Transmit Pov	ver			
Storage Temperature -40 ~ 85°C Operating Temperature -20 ~ 70°C unbient Humidity 5 ~ 95% (non-condensing) Indicator LED Power, Status, Cellular, Wi-Fi, cellular Signal EMC Static EN61000-4-2, level 2 Radiation Electric Field EN61000-4-3, level 2 Pulsed Electric Field EN61000-4-4, level 2 Surge EN61000-4-5, level 2 Conducted Disturbance Immunity EN61000-4-6, level 2 Shock Wave Resistance EN61000-4-12, level 2 Power Frequency Magnetic Field Resistance EN61000-4-8, horizontal / vertical 400A/m (>level 2) Physical Specs Shockproof IEC60068-2-27 Vibration Resistance IEC60068-2-6	Transmit Power	802.11g:16dBm +/-2dBm 802.11n@2.4GHz:16dBr	n(54Mbps) m +/-2dBm(HT20 MCS		
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EMC Static EN61000-4-2, level 2 Radiation Electric Field EN61000-4-3, level 2 Pulsed Electric Field EN61000-4-4, level 2 Surge EN61000-4-5, level 2 Conducted Disturbance Immunity EN61000-4-6, level 2 Shock Wave Resistance EN61000-4-12, level 2 Power Frequency Magnetic Field Resistance EN61000-4-8, horizontal / vertical 400A/m (>level 2) Physical Specs Shockproof IEC60068-2-27 Vibration Resistance IEC60068-2-6	Indicator				
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Disturbance Immunity EN61000-4-6, level 2 Snock Wave Resistance EN61000-4-12, level 2 Immunity EN61000-4-8, horizontal / vertical 400A/m (>level 2) Power Frequency Magnetic Field Resistance EN61000-4-8, horizontal / vertical 400A/m (>level 2) Physical Specs Shockproof IEC60068-2-27 Vibration Resistance IEC60068-2-6	Pulsed Electric Field	EN61000-4-4, level 2	Surge	EN61000-4-5, level 2	
Magnetic Field Resistance EN61000-4-8, horizontal / vertical 400A/m (>level 2) Physical Specs Shockproof IEC60068-2-27 Vibration Resistance IEC60068-2-6	Conducted Disturbance Immunity	EN61000-4-6, level 2		EN61000-4-12, level 2	
Shockproof IEC60068-2-27 Vibration IEC60068-2-6 Resistance	Power Frequency Magnetic Field Resistance	EN61000-4-8, horizontal	/ vertical 400A/m (>lev	vel 2)	
Resistance IEC00006-2-27	Physical Specs				
	Shockproof	IEC60068-2-27		IEC60068-2-6	
	Free Fall	IEC60068-2-32	. 10010101100	·i	

CE, FCC, PTCRB, IC, Verizon, AT&T

InRouter302 Softwa	are Specifications					
Network Connection						
Network Access	APN, VPDN, PrivateNetwork	Access Authentication	CHAP/PAP			
LAN Protocol	ARP	WAN Protocol	PPP, PPPoE, DHCP			
Network Type	GSM/GPRS/EDGE, UMTS/HSPA+/EVDO/TD-SCDMA, TDD LTE/FDD LTE (Please refer to the Ordering Guide for frequencies.)					
Network Protocol	·					
IP Application	Ping, RouteTrace, DHCP Server, DHCP Relay, DHCP Client, DNS relay, DDNS, Telnet					
IP Routing	Static routing					
NAT	Supports network address	s 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 protocols 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 150Mbps			
Mode	AP, Client and WDS mode	s				
Security	Open system, shared key, WEP/TKIP/AES encryption		iion			
Transmission Distance	100 meters by line of sight (Actual transmission distant		onment of the site.)			
Network Manageme	ent					
QoS Management	Bandwidth limit, IP speed limit					
Configuration	Telnet, web, ssh and console					
Upgrade	Web, DeviceManager					
Log	Local system log, remote log, and serial export of log. Power down saving of important logs.					
SMS Functions	Status query, configuration, restart					
Dial-on-demand	Dial-on-demand, data / SMS activation					
Network Management	Supports InHand DeviceManager, 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, support					
Traffic Management	Supports data traffic thres	hold, traffic statistics a	and traffic alarm			
Alarm	System restart alarm, LAN card failure alarm, etc.	l port online/offline ala	arm, data traffic alarm, SIM			
Maintenance Tools	Ping, route tracking, network speed test					
Status Query	System status, modem status, network connection status, and routing status					



Ordering Guide

Madal	Model code: IR302- <wmnn>-<wlan na=""></wlan></wmnn>			
Model	<wmnn>: Cellular Type & Module</wmnn>	<wlan na="">: Wi-Fi</wlan>		
IR302-LQ20- <wlan na=""></wlan>	(For China, LTE CAT 4) FDD: B1/B3/B5/B8 TDD: B34/B38/B39/B40/B41 WCDMA: B1/B5/B8 GSM: B3/B8MHz	WLAN: Wi-Fi <na>: no Wi-Fi</na>		
IR302-FQ58- <wlan na=""></wlan>	(For Europe & APAC, LTE CAT 4) FDD: B1/B3/B5/B7/B8/B20 TDD: B38/B40/B41 WCDMA: B1/B5/B8 GSM: B3/B8	WLAN: Wi-Fi <na>: no Wi-Fi</na>		
IR302-FQ38- <wlan na=""></wlan>	(For North America, AT&T, VzW, LTE CAT 4) FDD: B2/B4/B5/B12/B13/B14/B66/B71 WCDMA: B2/B4/B5	WLAN: Wi-Fi <na>: no Wi-Fi</na>		
IR302-FQ33- <wlan na=""></wlan>	(For North America, AT&T, VzW, LTE CAT 1) FDD: B2/B4/ B5/B12/B13/B25/B26 WCDMA: B2/B4/B5	WLAN: Wi-Fi <na>: no Wi-Fi</na>		
IR302-FQ53- <wlan na=""></wlan>	(For EMEA, CAT1) FDD: B1/B3/B7/B8/B20/B28 WCDMA: B1/B8 GSM/EDGE: B3/B8	WLAN: Wi-Fi <na>: no Wi-Fi</na>		
IR302-LQ00- <wlan na=""></wlan>	(For China, CAT1) FDD: B1/B3/B5/B8 TDD: B34/B38/B39/B40/B41 GSM: 900/1800MHz	WLAN: Wi-Fi <na>: no Wi-Fi</na>		
IR302-FQ02- <wlan na=""></wlan>	(Global, LTE CAT M/NB) CAT M1: B1/2/3/4/5/8/12/13/14/18/19/20/25/26/27/28/66/85 CAT NB2: B1/2/3/4/5/8/12/13/18/19/20/25/26/28/66/71/85 GSM/EDGE: 850/900/1800/1900	WLAN: Wi-Fi <na>: no Wi-Fi</na>		
IR302-EN00- <wlan></wlan>	NO	WLAN: Wi-Fi		
Example:	IR302-LQ20-WLAN: dual Ethernet port IR302 series cellular router, support IPSec / PPTP / L2TP / CWCDMA and GSM networks, supports Wi-Fi AP & Client mode	PEN VPN, supports FDD, TDD,		
Note:	Standard accessories of the IR302 are 4G and Wi-Fi magnetic antennas. If you need paddle antennas, please place your orders with the material codes: 4G paddle antenna - AANT090004, Wi-Fi paddle antenna - AANT060011. Installation parts for panel mounting are supplied as standard accessories. If you need installation parts for DIN-rail mounting, please order AFIX000125.			

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, InHand Networks defines industrial innovation and reliability.



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