

Compact Industrial LTE Router

InRouter302

· 4G

· Wi-Fi

· Security

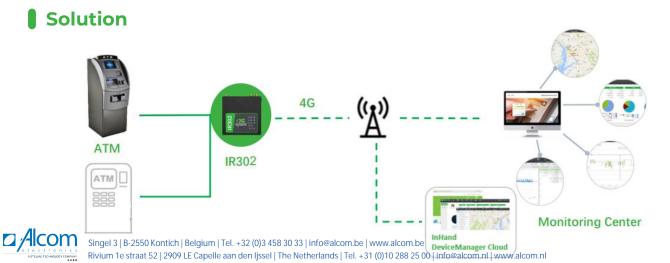
· Cloud-Managed



The InRouter302 (IR302) is an IoT cellular router that integrates 4G LTE, Wi-Fi, and VPN technologies to provide easy, reliable, and secure internet connectivity. This product is ideal for connecting unattended devices and remote sites. It features a watchdog and multi-layer link detection mechanisms to ensure reliable and stable communication. The router can be easily deployed to create large-scale networks, supporting tens of thousands of devices. Users can efficiently manage their networks using our InHand Device Manager cloud platform. The IR302 is suitable for a wide range of industrial and commercial IoT applications, offering a balanced option between cost and performance.







Features and Advantages

Diverse access methods covering all scenarios

IR302 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 IR302 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 IR302 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.

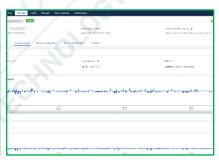


Device Manager-Cloud management

The IR302 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!





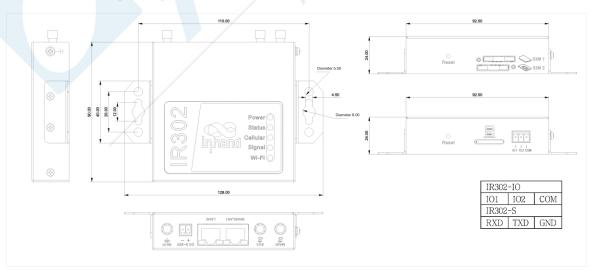


Take control

Real-time monitoring

Critical Status

Dimensions (mm)



Dimensions: 90*90*25 (mm)



Product Specifications

CPU S80MHz RAM 128MB DDR2 FLASH 32MB SPI Interfaces Ethernet Port 2*10/100Mbps R345, WAN/LAN switchable Power Supply DC 9-36V, over-current protection, anti-reverse connection, 2PIN industrial terminal I/O(Optional) Support 2*1/O(DI or DO can be configured) Serial port 1*RS232 (Optional) 1*RS232 Reset Pinhole reset button SIM Card Drawer-type SIM card slot, support dual SIM Antenna Connector Note: North America models: 2* 4G antenna connectors Wi-Fi Radio Frequency 2*4GHz Max Transmission Bandwidth S02.11b/g/n 802.11b/g/n 802.11b/g/n 802.11g/16dBm +/-2dBm(IMbps) 802.11g/16dBm +/-2dBm(IHT20 MCS7) 802.11n@2*4GHz16dBm +/-2dBm(IHT40 MCS7) Transmission Distance (Actual transmission distance depends on environment of the site.) Power Rate Standby Power 80mA-90mA@12V Working Power 190mA@12V Mechanical Features Installation Panel mounting; Rail mounting Dimensions & Weight 90*90*25 (mm) & 259g IP90 Environment Working Temp20* C to 70* C Storage Temp40* C to 85* C Humidity 5% to 95% (non-condensing) Physical Specs	Hardware Platform					
FLASH 32MB SP		580MHz				
Ethernet Port	RAM					
Ethernet Port 2*10/100Mbps R3/45, WAN/LAN switchable Power Supply	FLASH	32MB SPI				
DC 9-36V, over-current protection, anti-reverse connection, 2PIN industrial terminal	Interfaces					
	Ethernet Port	2*10/100Mbps RJ45, WAN/LAN switchable				
Serial port (Optional) 1'PS232 Reset Pinhole reset button SIM Card D'rawer-type SIM card slot, support dual SIM Antenna Connector 4G: 1'SMA; Wi-Fi: 1' RP-SMA Note: North America models: 2' 4G antenna connectors Wi-Fi Radio Frequency 2.4GHz Max Transmission Bandwidth 150Mbps 150Mbps 80211b/g/n 80211b/g/n 80211b/g/n 80211b/g/a Hollows 80211b/g/a Hollows 80211b/g/a Hollows 80211b/g/a Hollows 80211b/g/a Hollows 80211b/g/a Hollows 80211b/g/a Hollows 80211b/g/a Hollows 80211b/g/a Hollows 8021b/g/a Hollows 80211b/g/a Hollows 8021b/g/a Hollows 80211b/g/a Hollows 8021b/g/a Hollows 8021b/g/a 8021b/g/a Hollows 8021b/g/a Hollows 8021b/g/a Hollows 8021b/g/a 8021b/g/a Hollows 8021b/g/a <td< td=""><td>Power Supply</td><td colspan="4"></td></td<>	Power Supply					
Pinks232	I/O(Optional)	Support 2*I/O(DI or DO can be configured)				
SIM Card Drawer-type SIM card slot, support dual SIM Antenna Connector AC: 1' SMA; WI-Fi: 1' RP-SMA Note: North America models: 2' 4G antenna connectors WI-FI Radio Frequency 2.4GHz Max Transmission Bandwidth 150Mbps Transfer Protocol 802.11b/g/n 802.11b/g/n 802.11b/g/a-B02.11b/g/s4GHz/BdBm(IMbps) 802.11n/g2.4GHz/BdBm 1/-2dBm(IMbps) 802.11n/g2.4GHz/BdBm 1/-2dBm(HT40 MCS7) 802.11n/g2.4GHz/BdBm 1/-2dBm(HT40 MCS7) 802.11n/g2.4GHz/BdBm 1/-2dBm(HT40 MCS7) Transmission So meters by line of sight (Actual transmission distance depends on environment of the site.) Power Rate Standby Power 80mA-90mA@12V Working Power 100mA-120mA@12V Peak Power 190mA@12V Mechanical Features Installation Panel mounting; Rail mounting Dimensions & Weight 90*90*25 (mm) & 259g IP Poyo*25 (mm) & 259g Environment Working Temp20' C to 70' C Storage Temp40' C to 85' C Humidity 5% to 95% (non-condensing) Physical Specs Shock proof IEC60068-2-27 Vibration Resistance IEC60068-2-32 EMC Static EN61000-4-2, level 2 Radiation Electric Field EN61000-4-4, level 2 Surge EN61000-4-5, level 2 Conducted Disturbance Immunity Shock Wave Resistance EN61000-4-8, horizontal /vertical 400A/m (>level 2) Rower Frequency Magnetic Field Resistance EN61000-4-8, horizontal /vertical 400A/m (>level 2)		1*RS232				
Antenna Connector Wi-Fi Radio Frequency 24GHz Max Transmission Bandwidth Transfer Protocol 802.11b/g/n 802.11b/g/n 802.11b/g/n 802.11b/g/s 802.11n@2.4GHz.16dBm+/-2dBm(IIMbps) 802.11n@2.4GHz.16dBm+/-2dBm(HT20 MC57) 802.11n@2.4GHz.16dBm+/-2dBm(HT40 MC57) 807.11n@2.4GHz.16dBm+/-2dBm(HT40 MC57) Fransmission Distance (Actual transmission distance depends on environment of the site.) Power Rate Standby Power 80mA-90mA@12V Working Power 190mA@12V Mechanical Features Installation Panel mounting; Rail mounting Dimensions & Weight 90°90′25 (mm) & 259g IP 1930 Environment Working Temp. 20° C to 70° C Storage Temp. 40° C to 85° C Humidity 5% to 95% (non-condensing) Physical Spees Shockproof IEC60068-2-27 Vibration Resistance IEC60068-2-32 EMC Static EN61000-4-2, level 2 Radiation Electric Field EN61000-4-4, level 2 Surge EN61000-4-6, level 2 Conducted Disturbance Inmunuity EN61000-4-12, level 2 Conducted Disturbance Inmunity EN61000-4-12, level 2	Reset	Pinhole reset button				
Wi-Fi Note: North America models: 2* 4G antenna connectors Wi-Fi Radio Frequency 2.4GHz Max Transmission Bandwidth 150Mbps Transfer Protocol 802.11b/g/n 802.11b/16dBm+/-2dBm(IIMbps) 802.11b/36dBm+/-2dBm(IHT20 MCS7) 802.11n/g2.4GHz/36dBm+/-2dBm(HT20 MCS7) 802.11n/g2.4GHz/36dBm+/-2dBm(HT40 MCS7) Transmission 50 meters by line of sight Distance (Actual transmission distance depends on environment of the site.) Power Rate Standby Power 80mA-90mA@12V Working Power 100mA-120mA@12V Mechanical Features Installation Panel mounting; Rail mounting Dimensions & Weight 90°90°25 (mm) & 259g IP p30 Environment Working Temp. -20° C to 70° C Storage Temp. -40° C to 85° C Humidity 5% to 95% (non-condensing) Physical Specs Shockproof IEC60068-2-27 Vibration Resistance EC60068-2-32 EMC <	SIM Card	Drawer-type SIM card slot, support dual SIM				
Note: North America models: 2* 4G antenna connectors	Antonna Connector	4G: 1* SMA; Wi-Fi: 1* RP-SMA				
Radio Frequency 2.4GHz Max Transmission Bandwidth 150Mbps Transfer Protocol 802.11b/g/n Bo2.11b/g/n 802.11b/g/s/BBM +/-2dBm(IMbps) 802.11g/g2.4GHz+I6dBm +/-2dBm(HT20 MCS7) 802.11m@2.4GHz+I6dBm +/-2dBm(HT20 MCS7) 802.11m@2.4GHz+I6dBm +/-2dBm(HT40 MCS7) Transmission 50 meters by line of sight (Actual transmission distance depends on environment of the site.) Power Rate Standby Power 80mA-90mA@12V Working Power 190mA-@12V Mechanical Features Installation Panel mounting; Rail mounting Dimensions & Weight 90*90*25 (mm) & 259g IP 1P30 Environment Working Temp20* C to 70* C Storage Temp40* C to 85* C Humidity 5% to 95% (non-condensing) Physical Specs Shock proof IEC60068-2-6 Free Fall IEC60068-2-32 EMC EMC Static ENG1000-4-2, level 2 Radiation Electric Field ENG1000-4-4, level 2 Surge ENG1000-4-5, level 2 Conducted Disturbance Infoliou-4-6, level 2 Conducted Disturbance ENG1000-4-6, level 2 Ence Power Frequency Magnetic Field Resistance ENG1000-4-8, horizontal / vertical 400A/m (>level 2) Rose Static ENG1000-4-8, horizontal / vertical 400A/m (>level 2)	Antenna Connector	Note: North America models: 2* 4G antenna connectors				
Max Transmission Bandwidth 150Mbps Transfer Protocol 80211b/g/n Ro211b/IscldBm +/-2dBm(IMbps) 80211b/IscldBm +/-2dBm(IMbps) 80211n@2.4GHz16dBm +/-2dBm(HT20MCS7) 8021ln@2.4GHz16dBm +/-2dBm(HT20MCS7) 80211n@2.4GHz16dBm +/-2dBm(HT20MCS7) 8021ln@2.4GHz16dBm +/-2dBm(HT20MCS7) 8021n@2.4GHz16dBm +/-2dBm(HT40MCS7) 50 meters by line of sight (Actual transmission distance depends on environment of the site.) Power Rate Standby Power 80mA-90mA@12V Working Power 100mA-120mA@12V Mechanical Features Installation Panel mounting; Rail mounting Dimensions & Weight 90*90*25 (mm) & 259g IP Power Pool Pool Pool Pool Pool Pool Pool Poo	Wi-Fi					
Bandwidth ISONOPS	Radio Frequency	2.4GHz				
### Received Company of the Process		150Mbps				
Transmit Power 802.11g.16dBm +/-2dBm(54Mbps) 802.11n@2.4GHz16dBm +/-2dBm(HT20 MCS7) 802.11n@2.4GHz16dBm +/-2dBm(HT20 MCS7) 802.11n@2.4GHz16dBm +/-2dBm(HT40 MCS7) Transmission Distance 50 meters by line of sight (Actual transmission distance depends on environment of the site.) Power Rate Standby Power 80mA-90mA@12V Working Power 100mA-120mA@12V Mechanical Features Installation Panel mounting; Rail mounting Dimensions & Weight 90°90°25 (mm) & 259g IP IP30 Environment Working Temp20° C to 70° C Storage Temp40° C to 85° C Humidity 5% to 95% (non-condensing) Physical Specs Shockproof IEC60068-2-27 Vibration Resistance IEC60068-2-26 Free Fall IEC60068-2-32 EMC Static EN61000-4-2, level 2 Radiation Electric Field EN61000-4-4, level 2 Surge EN61000-4-5, level 2 Conducted Disturbance Immunity Shock Wave Resistance EN61000-4-8, horizontal /vertical 400A/m (-level 2) Resistance EN61000-4-8, horizontal /vertical 400A/m (-level 2)	Transfer Protocol	802.11 b/g/n				
Distance (Actual transmission distance depends on environment of the site.) Power Rate Standby Power 80mA-90mA@12V Working Power 190mA@12V Mechanical Features Installation Panel mounting; Rail mounting Dimensions & Weight 90°90°25 (mm) & 259g IP IP30 Environment Working Temp20° C to 70° C Storage Temp40° C to 85° C Humidity 5% to 95% (non-condensing) Physical Specs Shockproof IEC60068-2-27 Vibration Resistance IEC60068-2-6 Free Fall IEC60068-2-32 EMC Static EN61000-4-2, level 2 Radiation Electric Field EN61000-4-3, level 2 Surge EN61000-4-5, level 2 Conducted Disturbance IN61000-4-6, level 2 Conducted Disturbance EN61000-4-6, level 2 EN61000-4-6, level 2 Power Frequency Magnetic Field RN61000-4-8, horizontal / vertical 400A/m (>level 2) Resistance Power Frequency Magnetic Field EN61000-4-8, horizontal / vertical 400A/m (>level 2)	Transmit Power	802.11g:16dBm+/-2dBm(54Mbps) 802.11n@2.4GHz:16dBm+/-2dBm(HT20 MCS7)				
Standby Power 80mA-90mA@12V Working Power 190mA@12V Peak Power 190mA@12V Mechanical Features Installation Panel mounting; Rail mounting Dimensions & Weight 90*90*25 (mm) & 259g IP IP30 Environment Working Temp20° C to 70° C Storage Temp40° C to 85° C Humidity 5% to 95% (non-condensing) Physical Specs Shockproof IEC60068-2-27 Vibration Resistance IEC60068-2-32 EMC Static EN61000-4-2, level 2 Radiation Electric Field EN61000-4-3, level 2 Surge EN61000-4-5, level 2 Conducted Disturbance Immunity EN61000-4-6, level 2 EN61000-4-6, level 2 Power Frequency Magnetic Field Resistance EN61000-4-8, horizontal / vertical 400A/m (~level 2) Resistance EN61000-4-8, horizontal / vertical 400A/m (~level 2)						
Working Power 100mA-120mA@12V Peak Power 190mA@12V Mechanical Features Installation Panel mounting; Rail mounting Dimensions & Weight 90°90°25 (mm) & 259g IP IP30 Environment Working Temp20° C to 70° C Storage Temp40° C to 85° C Humidity 5% to 95% (non-condensing) Physical Specs Shockproof IEC60068-2-27 Vibration Resistance IEC60068-2-6 Free Fall IEC60068-2-32 EMC Static EN61000-4-2, level 2 Radiation Electric Field EN61000-4-4, level 2 Surge EN61000-4-5, level 2 Conducted Disturbance Immunity Shock Wave Resistance EN61000-4-12, level 2 Power Frequency Magnetic Field Resistance EN61000-4-8, horizontal / vertical 400A/m (>level 2)	Power Rate					
Working Power 100mA-120mA@12V Peak Power 190mA@12V Mechanical Features Installation Panel mounting; Rail mounting Dimensions & Weight 90°90°25 (mm) & 259g IP IP30 Environment Working Temp20° C to 70° C Storage Temp40° C to 85° C Humidity 5% to 95% (non-condensing) Physical Specs Shockproof IEC60068-2-27 Vibration Resistance IEC60068-2-6 Free Fall IEC60068-2-32 EMC Static EN61000-4-2, level 2 Radiation Electric Field EN61000-4-4, level 2 Surge EN61000-4-5, level 2 Conducted Disturbance Immunity Shock Wave Resistance EN61000-4-12, level 2 Power Frequency Magnetic Field Resistance EN61000-4-8, horizontal / vertical 400A/m (>level 2)	Standby Power	80mA-90mA@12V				
Peak Power 190mA@12V Mechanical Features Installation Panel mounting; Rail mounting Dimensions & Weight 90°90°25 (mm) & 259g IP IP30 Environment Working Temp20° C to 70° C Storage Temp40° C to 85° C Humidity 5% to 95% (non-condensing) Physical Specs Shockproof IEC60068-2-27 Vibration Resistance IEC60068-2-6 Free Fall IEC60068-2-32 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 Shock Wave Resistance EN61000-4-12, level 2 Power Frequency Magnetic Field Resistance EN61000-4-8, horizontal / vertical 400A/m (>level 2)	Working Power	100mA-120mA@12V				
Mechanical Features Installation Panel mounting; Rail mounting Dimensions & Weight 90°90°25 (mm) & 259g IP IP30 Environment Working Temp20° C to 70° C Storage Temp40° C to 85° C Humidity 5% to 95% (non-condensing) Physical Specs Shockproof IEC60068-2-27 Vibration Resistance IEC60068-2-6 Free Fall IEC60068-2-32 EMC Static EN61000-4-2, level 2 Radiation Electric Field EN61000-4-4, level 2 Pulsed Electric Field EN61000-4-5, level 2 Conducted Disturbance Immunity Shock Wave Resistance EN61000-4-12, level 2 Power Frequency Magnetic Field Resistance EN61000-4-8, horizontal / vertical 400A/m (>level 2)						
Installation Panel mounting; Rail mounting Dimensions & Weight 90°90°25 (mm) & 259g IP IP30 Environment Working Temp20° C to 70° C Storage Temp40° C to 85° C Humidity 5% to 95% (non-condensing) Physical Specs Shockproof IEC60068-2-27 Vibration Resistance IEC60068-2-6 Free Fall IEC60068-2-32 EMC Static EN61000-4-2, level 2 Radiation Electric Field EN61000-4-3, level 2 Pulsed Electric Field EN61000-4-5, level 2 Surge EN61000-4-5, level 2 Conducted Disturbance Immunity Shock Wave Resistance EN61000-4-12, level 2 Power Frequency Magnetic Field Resistance EN61000-4-8, horizontal / vertical 400A/m (>level 2)		1901TIA@II2V				
Dimensions & Weight 90°90°25 (mm) & 259g IP IP30 Environment Working Temp20° C to 70° C Storage Temp40° C to 85° C Humidity 5% to 95% (non-condensing) Physical Specs Shockproof IEC60068-2-27 Vibration Resistance IEC60068-2-6 Free Fall IEC60068-2-32 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 Shock Wave Resistance Power Frequency Magnetic Field Re61000-4-8, horizontal / vertical 400A/m (>level 2)	Mechanical Features					
IP	Installation	Panel mounting; Rail mounting				
Environment Working Temp20° C to 70° C Storage Temp40° C to 85° C Humidity 5% to 95% (non-condensing) Physical Specs Shockproof IEC60068-2-27 Vibration Resistance IEC60068-2-6 Free Fall IEC60068-2-32 EMC Static EN61000-4-2, level 2 Radiation Electric Field EN61000-4-3, level 2 Pulsed Electric Field EN61000-4-5, level 2 Surge EN61000-4-5, level 2 Conducted Disturbance Immunity Shock Wave Resistance EN61000-4-12, level 2 EN61000-4-12, level 2 EN61000-4-12, level 2 EN61000-4-6, level 2 EN61000-4-7, level 2 EN61000-4-8, horizontal / vertical 400A/m (>level 2) Radiation Electric Field Resistance	Dimensions & Weight					
Working Temp. -20° C to 70° C Storage Temp. -40° C to 85° C Humidity 5% to 95% (non-condensing) Physical Specs Shockproof IEC60068-2-27 Vibration Resistance IEC60068-2-6 Free Fall IEC60068-2-32 EMC EM61000-4-2, level 2 Radiation Electric EN61000-4-3, level 2 Field EN61000-4-4, level 2 Surge EN61000-4-5, level 2 Conducted Disturbance Immunity EN61000-4-6, level 2 Power Frequency EN61000-4-12, level 2 Power Frequency Magnetic Field Resistance EN61000-4-8, horizontal / vertical 400A/m (>level 2)	IP	IP30				
Storage Temp40° C to 85° C Humidity 5% to 95% (non-condensing) Physical Specs Shockproof IEC60068-2-27 Vibration Resistance IEC60068-2-6 Free Fall IEC60068-2-32 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 Shock Wave Resistance EN61000-4-12, level 2 Power Frequency Magnetic Field Re61000-4-8, horizontal / vertical 400A/m (>level 2)	Environment					
Humidity 5% to 95% (non-condensing) Physical Specs Shockproof IEC60068-2-27 Vibration Resistance IEC60068-2-6 Free Fall IEC60068-2-32 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 Immunity EN61000-4-12, level 2 Power Frequency Magnetic Field Resistance EN61000-4-8, horizontal / vertical 400A/m (>level 2)	Working Temp.	-20° C to 70° C				
Physical Specs Shockproof IEC60068-2-27 Vibration Resistance IEC60068-2-6 Free Fall IEC60068-2-32 EMC Static EN61000-4-2, level 2 Radiation Electric Field EN61000-4-3, level 2 Pulsed Electric Field EN61000-4-5, 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)	Storage Temp.	-40° C to 85° C				
Shockproof IEC60068-2-27 Vibration Resistance IEC60068-2-6 Free Fall IEC60068-2-32 EMC Static EN61000-4-2, level 2 Radiation Electric EN61000-4-3, level 2 Field EN61000-4-4, level 2 Surge EN61000-4-5, level 2 Conducted Disturbance Disturbance EN61000-4-6, level 2 Immunity EN61000-4-12, level 2 Power Frequency EN61000-4-8, horizontal / vertical 400A/m (>level 2)	Humidity	5% to 95% (non-condensing)				
Vibration Resistance IEC60068-2-6 Free Fall IEC60068-2-32 EMC Static EN61000-4-2, level 2 Radiation Electric EN61000-4-3, level 2 Field EN61000-4-4, level 2 Surge EN61000-4-5, level 2 Conducted Disturbance Immunity EN61000-4-6, level 2 Immunity EN61000-4-12, level 2 Power Frequency EN61000-4-8, horizontal / vertical 400A/m (>level 2)	Physical Specs					
Free Fall IEC60068-2-32 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)	Shockproof	IEC60068-2-27				
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)	Vibration Resistance	IEC60068-2-6				
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 Immunity Shock Wave Resistance EN61000-4-12, level 2 Power Frequency Magnetic Field Resistance EN61000-4-8, horizontal / vertical 400A/m (>level 2)	Free Fall	IEC60068-2-32				
Radiation Electric Field Pulsed Electric Field EN61000-4-3, level 2 Surge EN61000-4-4, level 2 Conducted Disturbance Immunity Shock Wave Resistance EN61000-4-12, level 2 Power Frequency Magnetic Field Resistance EN61000-4-8, horizontal / vertical 400A/m (>level 2)	EMC					
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)	Static	EN61000-4-2, 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)		EN61000-4-3, level 2				
Conducted Disturbance Immunity Shock Wave Resistance Power Frequency Magnetic Field Resistance EN61000-4-8, horizontal / vertical 400A/m (>level 2)	Pulsed Electric Field	EN61000-4-4, level 2				
Disturbance Inmunity EN61000-4-6,level 2 Immunity Shock Wave Resistance EN61000-4-12,level 2 Power Frequency Magnetic Field Resistance EN61000-4-8,horizontal / vertical 400A/m (>level 2)	Surge	EN61000-4-5, level 2				
Resistance EN61000-4-12,level 2 Power Frequency Magnetic Field Resistance EN61000-4-8, horizontal / vertical 400A/m (>level 2)	Disturbance	EN61000-4-6,level 2				
Magnetic Field EN61000-4-8, horizontal / vertical 400A/m (>level 2) Resistance		EN61000-4-12,level 2				
Certification	Magnetic Field	EN61000-4-8, horizontal / vertical 400A/m (>level 2)				

InRouter 302 Softwa	re Specifications					
Network Connection						
Network Access	APN, VPDN					
Access Authentication	CHAP/PAP					
Network Type	${\tt GSM/OPRS/EDGE, UMTS/HSPA+/EVDO/TD-SCDMA, TDD LTE/FDD LTE} \ (Please refer to the Ordering Guide for frequencies)$					
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					
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, WireGuard, ZeroTier Supports CA digital certificate					
Reliability	(20)					
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)	, IL					
Protocol	IEEE 802.11b/g/n					
Security	Open system, shared key, WPA/WPA2 certification WEP/TKIP/AES encryption					
Transmission Distance	50 meters by line of sight (Actual transmission distance depends on environment of the site.)					
Intelligence						
Integrated DTU	TCP, UDP transparent transmission mode, TCP Server mode					
	Supports conversion of Modbus RTU to Modbus TCP bridge Supports AT command					
Network Managemer						
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					
	marked with * are not available yet.					
	-					





Ordering Guide

Model code: IR302- <wmnn>-<wlan na="">-<io na="" s=""></io></wlan></wmnn>								
Model	Region (Operator)	Network Type	<wmnn>: Cellular Type & Module</wmnn>	<wlan na="">: Wi-Fi</wlan>	<io na="" s="">: Serial/IO</io>			
IR302-FQ58-< WLAN /NA>- <io na="" s=""></io>	Europe & APAC	LTE CAT4	FDD: B1/B3/B7/B8/B20/B28A WCDMA: B1/B8 GSM: B3/B8	WLAN: Wi-Fi <na>: no Wi-Fi</na>	IO: 2*IO S: 1*RS232 <na>: no interface</na>			
IR302-FQ58- <wlan na="">-<io na="" s="">-L</io></wlan>	Europe & APAC	LTE CAT4	FDD: B1/B3/B5/B7/B8/B20/B28 TDD: B38/B40/B41 WCDMA: B1/B5/B8 GSM/EDGE: B3/B8	WLAN: Wi-Fi <na>: no Wi-Fi</na>	IO: 2*IO S: 1*RS232 <na>: no interface</na>			
IR302-FQ53- <wlan na="">-<io na="" s=""></io></wlan>	EMEA	LTE CATI	FDD: B1/B3/B7/B8/B20/B28 WCDMA: B1/B8 GSM/EDGE: B3/B8	WLAN: Wi-Fi <na>: no Wi-Fi</na>	IO: 2*IO S: 1*RS232 <na>: no interface</na>			
IR302-FQ38- <wlan na="">-<io s=""></io></wlan>	North America AT&T, Verizon	LTE CAT4	FDD: B2/B4/B5/B12/B13/B14/B66/B71 WCDMA: B2/B4/B5	WLAN: Wi-Fi <na>: no Wi-Fi</na>	IO: 2*IO S: 1*RS232			
IR302-FQ33- <wlan na="">-<io s=""></io></wlan>	North America AT&T, Verizon	LTE CATI	FDD: B2/B4/B5/B12/B13/B25/B26 WCDMA: B2/B4/B5	WLAN: Wi-Fi <na>: no Wi-Fi</na>	IO: 2*IO S: 1*RS232			
IR302-FQ68- <wlan na="">-<io s=""></io></wlan>	Latin America	LTE CAT4	FDD: B1/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>	IO: 2*IO S: 1*RS232			
IR302-FQ78- <wlan na="">-<io na="" s=""></io></wlan>	Australia, Latin America	LTE CAT4	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>	IO: 2*IO S: 1*RS232 <na>: no interface</na>			
IR302-FQ88- <wlan na="">-S</wlan>	Japan	LTE CAT4	FDD: B1/B3/B8/B18/B19/B26 TDD: B41 WCDMA: B1/B6/B8/B19	WLAN: Wi-Fi <na>:no Wi-Fi</na>	S: 1*RS232			
IR302-EN00-WLAN	Global	NA	No cellular module	WLAN: Wi-Fi	NA			
IR302-EN00-WLAN-S-485	Global	NA	No cellular module	WLAN: Wi-Fi	S: 1*RS485			
IR302-FQ58-S-485	Europe & APAC	LTE CAT4	FDD: B1/B3/B7/B8/B20/B28A WCDMA: B1/B8 GSM: B3/B8	<na>: no Wi-Fi</na>	S: 1*RS485			
IR302-LQ28- <wlan na="">-<\$/NA></wlan>	China	LTE CAT4	FDD: B1/B3/B5/B8 TDD: B34/B38/B39/B40/B41 WCDMA: B1/B8 TD-SCDMA: B34/B39 EVDO/CDMA: B34/B39 EVDO/CDMA: B36/B8	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232 <na>: no interface</na>			
IR302-LQ28- <wlan na="">-<s na="">-L</s></wlan>	China	LTE CAT4	FDD: B1/B3/B5/B8 TDD: B34/B38/B39/B40/B41 WCDMA: B1/B5/B8 GSM/EDGE: B3/B8	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232 <na>: no interface</na>			

Example: IR302-FQ38-WLAN-IO: CAT 4, AT&T, Verizon, T-Mobile, dual Ethernet port IR302 series cellular router, with 2*DIO, support IPSec / PPTP / L2TP / OPEN VPN, supports FDD, and WCDMA networks, supports Wi-Fi AP & Client mode.

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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