

Embrace 5G, Co-Create the Digital Era.

# InRouter624 series

• Security

• Wi-Fi 5

### · Cloud-Managed



The InRouter624 (IR624) series by InHand Networks is designed to assist enterprises in digital transformation. Integrated with 5G/4G, Wi-Fi, VPN, and more, it offers efficient, secure, and intelligent connectivity solutions for various IoT industries. With a multi-level link detection mechanism, the IR624 ensures stable communication for unattended industrial sites. Paired with InHand Networks' DeviceLive IoT management platform, it aids users in achieving centralized cloud management and remote maintenance. This allows for easy monitoring of device status, reducing deployment costs, and enhancing management efficiency.



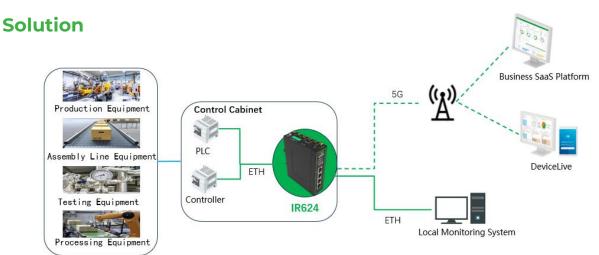


Higher definition imaging, covering finer details to identify problems.



Real-time response to anomalous information, achieving faster and accurate grid control.

Creating a secure, comfortable, and sustainable urban environment.





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## Features and Advantages

### • Ubiquitous network access: 5G

IR624 features 5G cellular high-speed network access with a downlink speed of up to 2Gbps, providing a comprehensive enhancement to the new network experience. The characteristics of high bandwidth and low latency contribute to building a more powerful and efficient nextgeneration network, allowing you to fully experience the remarkable charm of 5G.



#### "Always-on" connectivity

IR624 is equipped with various features, including link backup, link detection, dual SIM switching, watchdog, etc., to ensure the reliability and stability of connections. This reduces the risk of network failures, saves network investment costs, and provides a worry-free new experience of network services!



### • Secure Network Connection

IR624 integrates multiple layers of security policies, including VPN, firewall, and policy routing. It effectively safeguards sensitive data and critical business networks from attacks and threats, providing a secure and trustworthy network environment. While your business rapidly expands, we are dedicated to protecting your digital assets.

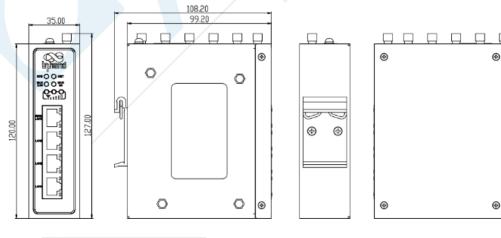


#### Cloud-Managed Networking Solution

The IR624 connects to the InHand Networks DeviceLive IoT device management platform to manage tens of thousands of distributed site devices in real time and grasp device status anytime and anywhere. Additionally, users can remotely connect to on-site devices through DeviceLive for diagnosis, debugging, and repair of distributed on-site devices. This reduces losses caused by equipment failures, making management easier, more efficient, and more economical!



### Dimensions (mm)





Industrial Terminal						
V+	V-	TXD	RXD	GND	Α	В
Power supply		RS232			RS485	



# Product Specifications

	uwa	re Specificatio				
Hardware Platform	n					
CPU	8801	880MHz				
RAM	2561	6MB				
Flash	1281	8MB				
Interface						
Cellular		downlink speed of up to 2Gbps, Sub6(450MHz to 6GHz), npatible with 4G/3G				
Ethernet Port		0/100/1000Mbps,Ethernet, WAN/LAN/VLAN W network isolation transformer protection				
Power Supply		-48V, over-current protection, anti-reverse connection, 2 industrial terminal				
Serial Port		S232 and 1 x RS485 protection: 15KV				
Reset	Rese	et button				
SIM Card		rawer-type slot, support dual-NANO SIM, 1.8 V/3 V ۱ (Optional)				
Antenna Interface	4 x S	SMA for 5G or 2 x SMA for 4G , 2 x RP-SMA for Wi-Fi				
Ground Terminal	Sup	ports				
Indicator	1 x S	System, 1 x Cellular, 1 x 2.4G Wi-Fi, 1 x 5G Wi-Fi, 3 x Signal				
Hardware compon	ents					
RTC	Sup	port				
Wi-Fi						
Dual Radio	2.40	G / 5GHz Wi-Fi				
Transmission Bandwidth		867 Mbps 5: 300 Mbps				
Protocol						
Maximum Transmit Power	5G:	17dBm 5: 17dBm				
Transmission Distance	(Act		sight distance depends or	n environment of		
	(Act the s	ual transmission		n environment of		
Distance	(Act the s es	ual transmission		n environment of		
Distance Mechanical Feature	(Act the s es	ual transmission site.) (108.2x 35mm	distance depends or			
Distance Mechanical Feature Dimensions	(Act the es 127>	ual transmission site.) < 108.2x 35mm -rail	distance depends or Weight	544g		
Distance Mechanical Feature Dimensions Installation	(Act) the s es 127> Din	ual transmission site.) < 108.2x 35mm -rail	distance depends or Weight Protection Rating	544g IP30		
Distance Mechanical Feature Dimensions Installation Housing	(Actitude) the s es 127> Din Met	ual transmission site.) < 108.2x 35mm -rail	distance depends or Weight Protection Rating	544g IP30		
Distance Mechanical Feature Dimensions Installation Housing Power rate	(Acti the s es 127> Din Met 370	ual transmission site.) < 108.2x 35mm -rail :al	distance depends or Weight Protection Rating	544g IP30		
Distance Mechanical Feature Dimensions Installation Housing Power rate Standby Power	(Actu the s es 127> Din Met 370 415	ual transmission site.) (108.2x 35mm -rail (al -480mA@12V	distance depends or Weight Protection Rating	544g IP30		
Distance Mechanical Feature Dimensions Installation Housing Power rate Standby Power Working Power	(Actu the s es 127> Din Met 370 415- 530	ual transmission site.) (108.2x 35mm -rail al -480mA@12V -530mA@12V	distance depends or Weight Protection Rating	544g IP30		
Distance Mechanical Feature Dimensions Installation Housing Power rate Standby Power Working Power Peak Power	(Active the second seco	ual transmission site.) (108.2x 35mm -rail al -480mA@12V -530mA@12V	distance depends or Weight Protection Rating	544g IP30		
Distance Mechanical Feature Dimensions Installation Housing Power rate Standby Power Working Power Peak Power Ambient Environm Storage	(Acti the s 127» Din Met 3770 415- 530 ment -40	ual transmission site.) (108.2x 35mm -rail (al -480mA@12V -530mA@12V mA@12V	distance depends or Weight Protection Rating Cooling Operating Temperature	544g IP30 Fanless		
Distance Mechanical Feature Dimensions Installation Housing Power rate Standby Power Working Power Peak Power Ambient Environm Storage Temperature Ambient	(Acti the s 127» Din Met 3770 415- 530 ment -40	ual transmission site.) (108.2x 35mm -rail (a) 480mA@12V 530mA@12V mA@12V ~ 85°C	distance depends or Weight Protection Rating Cooling Operating Temperature	544g IP30 Fanless		
Distance Mechanical Feature Dimensions Installation Housing Power rate Standby Power Working Power Peak Power Ambient Environm Storage Temperature Ambient Humidity	(Acti the s 127» Din Met 3770 415- 530 ment -40	ual transmission site.) (108.2x 35mm -rail (a) 480mA@12V 530mA@12V mA@12V ~ 85°C	distance depends or Weight Protection Rating Cooling Operating Temperature	544g IP30 Fanless		
Distance Mechanical Feature Dimensions Installation Housing Power rate Standby Power Working Power Peak Power Ambient Environm Storage Temperature Ambient Humidity EMC	(Actu the s es 127, Din Met 370 415- 530 415- 530 -40 5~9	ual transmission site.) (108.2x 35mm -rail -480mA@12V -530mA@12V mA@12V ~ 85°C 5% (no condensir	distance depends or Weight Protection Rating Cooling Operating Temperature ng)	544g IP30 Fanless		
Distance Mechanical Feature Dimensions Installation Housing Power rate Standby Power Working Power Peak Power Peak Power Ambient Environm Storage Temperature Ambient Humidity EMC Static	(Actu the s es 127) Din Met 370 415- 530 nent -40 5~9	ual transmission site.) (108.2x 35mm -rail (a) 480mA@12V 530mA@12V mA@12V ~ 85°C 5% (no condensir EN61000-4-2, le	distance depends or Weight Protection Rating Cooling Cooling Operating Temperature ng) vel 3 vel 3	544g IP30 Fanless		
Distance Mechanical Feature Dimensions Installation Housing Power rate Standby Power Working Power Peak Power Ambient Environm Storage Temperature Ambient Humidity EMC Static Radiation Electric F	(Actu the s es 127) Din Met 370 415- 530 nent -40 5~9	ual transmission site.) (108.2x 35mm -rail rail -480mA@12V -530mA@12V mA@12V ~ 85°C 5% (no condensir EN61000-4-2, le EN61000-4-3, le	distance depends or Weight Protection Rating Cooling Cooling Operating Temperature ng) vel 3 vel 3 vel 3	544g IP30 Fanless		
Distance Mechanical Featur Dimensions Installation Housing Power rate Standby Power Working Power Peak Power Ambient Environm Storage Temperature Ambient Humidity EMC Static Radiation Electric F	(Act the s the s 127) Din Met 3700 415: 530 •ent -40 5~9	ual transmission site.) (108.2x 35mm -rail (a) -480mA@12V -530mA@12V mA@12V ~ 85°C 5% (no condensir EN61000-4-2, le EN61000-4-3, le EN61000-4-4, le	distance depends or Weight Protection Rating Cooling Cooling Operating Temperature ng) vel 3 vel 3 vel 3 vel 3	544g IP30 Fanless		
Distance Mechanical Featur Dimensions Installation Housing Power rate Standby Power Working Power Peak Power Ambient Environm Storage Temperature Ambient Humidity EMC Static Radiation Electric Fiel Surge Conducted	(Act the s the s 127) Din Met 3700 415: 530 •ent -40 5~9	ual transmission site.) (108.2x 35mm -rail aal -480mA@12V -530mA@12V mA@12V mA@12V ~ 85°C 5% (no condensir EN61000-4-2, le EN61000-4-3, le EN61000-4-5, le	distance depends or Weight Protection Rating Cooling Cooling Operating Temperature ng) vel 3 vel 3 vel 3 vel 3 vel 3 vel 3	544g IP30 Fanless		
Distance Distance Mechanical Feature Dimensions Installation Housing Power rate Standby Power Peak Power Ambient Environm Storage Temperature Ambient Humidity EMC Static Radiation Electric Fiel Surge Conducted Disturbance Immu Shock Wave	(Act the s the s 127) Din Met 3700 415: 530 •ent -40 5~9	ual transmission site.) (108.2x 35mm -rail al -480mA@12V -530mA@12V mA@12V mA@12V ~ 85°C 5% (no condensir EN61000-4-2, le EN61000-4-3, le EN61000-4-5, le EN61000-4-6, le	distance depends or Weight Protection Rating Cooling Cooling Operating Temperature ng) vel 3 vel 3 vel 3 vel 3 vel 3 vel 3	544g IP30 Fanless		
Distance Distance Mechanical Featur Dimensions Installation Housing Power rate Standby Power Working Power Peak Power Ambient Environm Storage Temperature Ambient Humidity EMC Static Radiation Electric Fiel Surge Conducted Disturbance Immu Shock Wave Power Frequency	(Act the s the s 127) Din Met 3700 415: 530 •ent -40 5~9	ual transmission site.) (108.2x 35mm -rail al -480mA@12V -530mA@12V mA@12V mA@12V ~ 85°C 5% (no condensir EN61000-4-2, le EN61000-4-3, le EN61000-4-5, le EN61000-4-6, le	Veight Protection Rating Cooling Operating Temperature ng) vel 3 vel 3 vel 3 vel 3 vel 3 vel 3 vel 3	544g IP30 Fanless		
Distance Distance Mechanical Feature Dimensions Installation Housing Power rate Standby Power Working Power Peak Power Ambient Environm Storage Temperature Ambient Aumidity EMC Static Radiation Electric Fiel Surge Conducted Disturbance Immun Shock Wave Resistance Power Frequency Magnetic Field	(Act: the s es 1273) Din Met 3700 415- 5300 eent -400 5~93 =ield d	ual transmission site.) (108.2x 35mm -rail al -480mA@12V -530mA@12V mA@12V mA@12V ~ 85°C 5% (no condensir EN61000-4-2, le EN61000-4-3, le EN61000-4-5, le EN61000-4-6, le	Veight Protection Rating Cooling Operating Temperature ng) vel 3 vel 3 vel 3 vel 3 vel 3 vel 3 vel 3	544g IP30 Fanless		

InRouter624 Soft	ware Specifications			
Network Connectio	n			
Network Access	APN, VPDN			
Access Authentication	СНАР/РАР			
Network Type	WCDMA, TDD LTE/FDD LTE, 5G NR(SA/NSA) (Please refer to the Ordering Guide for frequencies)			
LAN Protocol	ARP, Ethernet			
WAN Protocol	Static IP, DHCP, PPPoE			
Network Protocol				
Protocol & Application	TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, SSL/TLS, ARP, VRRP, PPP, PPPoE, SSH, DHCP Server, DHCP Relay, DHCP Client, DDNS, Telnet, IP Passthrough			
Routing	Static routing			
Security				
Network Security	Support access control, NAT, port mapping and firewall filtering based on MAC/IP/port/protocol Support Policy-Based Routing Support 802.1X			
Data Security	IPsec VPN, L2TP VPN			
Reliability				
Backup	Interface backup			
Dual SIM Failover	Supports dual SIM failover			
Link Detection	Sends heartbeat packets to detect, auto redials when disconnected			
Embedded Watchdog	Device runs self-detection, auto recovers from malfunctions			
Wi-Fi				
Working Mode	AP, Client			
Security	Open system, shared key, WPA/WPA2 certification WEP/TKIP/AES encryption			
Wi-Fi Portal	Support			
Intelligence				
DTU Functions	TCP / UDP transparent transmission mode Supports conversion of Modbus RTU to Modbus TCP bridge			
Monitoring & Alertin	g			
Dash Board	Device information, interface status, and refined traffic statistics			
Link Monitoring	Link delay, jitter, packet loss, and throughput			
Log & Alarm	System logs, diagnostic logs, device events			
QoS				
Traffic Shaping	Support			
Remote maintenand	ce			
Remote Access	Support Web/CLI remote access			
Cloud Management	DeviceLive supports batch management, equipment monitoring, remote maintenance			
Network Diagnostics	Support Ping, Traceroute and network packet capture tools			
Configuration Backup	Support configuration import and export			



CE, E-MARK, ECE R118, FCC, IC, PTCRB, AT&T\*, T-Mobile\*

# Ordering Guide

Model	<wmnn>: Cellular Type &amp; Module</wmnn>	<wlan na="">: Wi-Fi</wlan>	
IR624-NRQ3- <wlan na="">-S</wlan>	(For Global, 5G) 5G NR NSA: n1/2/3/5/7/8/12/13/14/18/20/25/26/ 28/29/30/38/40/41/48/66/70/71/75/76/77/78/ 79 5G NR SA: n1/2/3/5/7/8/12/13/14/18/20/25/26/28 /29/30/38/40/41/48/66/70/71/75/76/77/78/79 LTE FDD: B1/2/3/4/5/7/8/12/13/14/17/18/19/20/ 25/26/28/29/30/32/66/71 LTE TDD: B34/38/39/40/41/42/43/48 LTE LAA: B46 WCDMA: B1/2/4/5/8/19	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232+1*RS4
IR624-NRF4- <wlan na="">-S</wlan>	(For Europe & APAC, 5G) 5G NR: n1/3/5/7/8/20/28/38/40/41/71/77/78/66 LTE FDD: B1/3/5/7/8/20/28/71/66 LTE TDD: B38/40/41 WCDMA: B1/3/5/8	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232+1*RS4
IR624-FQ58- <wlan na="">-S</wlan>	(For Europe &APAC, 4G LTE CAT4) LTE-FDD: B1/3/5/7/8/20/28 LTE-TDD: B34/38/39/40/41 WCDMA: B1/5/8 CSM: B3/8	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232+1*RS48
IR624-EN00- <wlan na="">-S</wlan>	NA	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232+1*RS46
IR624-NRF2- <wlan na="">-S</wlan>	(For China, 5G) 5G NR: n1/3*/5/8/28/41/78/79 LTE FDD: B1/3/5/7*/8 LTE TDD: B34/38/39/40/41 WCDMA: B1/5/8	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232+1*RS48
IR624-LQ20- <wlan na="">-S</wlan>	(For China, 4G LTE CAT4) FDD: B1/3/5/8 TDD: B34/38/39/40/41 WCDMA: B1/5/8 GSM/EDGE: B3/8	WLAN: Wi-Fi <na>: no Wi-Fi</na>	S: 1*RS232+1*RS48

Example: IR624-NRF4-WLAN-S: Four Gigabit Ethernet ports IR624 series cellular router with Wi-Fi, supports IPSec VPN and L2TP VPN, supports RS232 and RS485. Note: the product comes standard with suction cup antenna and Din-rail accessories.

#### 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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