



Industrial Router IWR202

















Introduction

IWR202 is an industrial-grade router featuring a high-performance processor and wireless module, running on an embedded real-time operating system. It offers versatile connectivity with 1 x RS232, 1 x RS485, 1 x Ethernet LAN, 1 x Ethernet WAN, DI/DO, and Wi-Fi. This router enables seamless data transmission between serial, Ethernet, and Wi-Fi devices. It supports dual SIM cards with intelligent switching for backup, making it perfect for industrial IoT and M2M applications, ensuring reliable and continuous connectivity.



Industrial-grade Design

- High-performance industrial-grade CPU
- High-performance industrial-grade wireless communication module
- Metal casing, IP30 protection level
- Wide range power input (DC 5~36V)



Stability & Reliability

- EMC Level 3 and above, with strong anti-interference capability
- Dual SIM card design with complete dropout prevention mechanisms, ensuring the data terminal is always online
- Ethernet interface with 1.5KV electromagnetic isolation protection
- RS232/RS485 interfaces with 1.5KV ESD protection
- SIM card interface with 15KV ESD protection



Standard & Convenience

- Provides standard RS232 and RS485 ports for direct connection to serial devices
- 2 x 100M Ethernet ports for direct connection to Ethernet devices
- Supports standard network protocols, ensuring strong compatibility
- Supports remote management, simplifying operations
- Supports rail and wall-mounted installation for flexible deployment

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- Supports multiple VPN protocols including IPsec, OpenVPN, and WireGuard
- Built-in MQTT gateway, supporting data transparent transmission to HTTP/MQTT/Azure cloud
- Supports remote management platform and PC client applications
- Supports SPI firewall
- Wi-Fi supports multiple encryption methods including WEP, WPA, WPA2 and,etc.
- Supports multiple network protocols including TCP, UDP, IPv4, DNSS, Telnet
- Supports mounting remote file systems via SSH protocol
- Equipped with DDoS protection (SYN flood protection, SSH attack protection, Telnet attack protection)
- Flexible access control for SSH, Web interface, CLI, and Telnet
- Supports MODBUS TCP and Modbus RTU status/control
- Supports MQTT subscription and MQTT publishing
- Supports bridging and transparent transmission functions

Product Specification

Cellular Specification		
Model	CAT6	5G Redcap
Items	Contents	
Standard and Band		5G NR SA:
	LTE FDD:	n1/2/3/5/7/8/12/13/14/18/20/25/26/28/30/38/40/41/
	B1/3/5/7/8/20/28/32	48/66/70/71/ 77/78/79
	LTE TDD:	LTE FDD:
	B38/40/41(120M)	B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/30/6
	WCDMA:	6/70/71
	B1/3/5/8	LTE TDD:
		B34/38/39/40/41/42/43/48
Bandwidth	LTE:	5G SASub-6:
	300Mbps DL, 50Mbps UL	223Mbps DL, 123Mbps UL
	WCDMA:	LTE:
	42 Mbps DL, 5.7Mbps UL	195Mbps DL, 105Mbps UL
Hardware System		
Items	Contents	
CPU	Industrial-grade CPU	
Flash	32MB	
DDR3	128MB	



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WIFI Specification		
Product	CAT6	5G Redcap
Items	Contents	
Standard and Band	IEEE802.11b/g/n, 2.4G	
Bandwidth	IEEE802.11b/g: 54Mbps (Maximum)	
	IEEE802.11n: 144Mbps (Maximum)	
Security	Support WEP, WPA, WPA2 and other encrypt methods	
Transmit Power	15 ± 2dBm	
Sensitivity	< -72dBm @ 54Mbps	
Interfaces		
Items	Contents	
WAN Interface	1 x 10/100M RJ45 ethernet port, adaptive MDI/MDIX, built-in 15KV ESD	
LAN Interface	1 x 10/100M RJ45 ethernet port, adaptive MDI/MDIX,	built-in 15KV ESD (Support Passive POE)
Serial	1 x RS232, 1 x RS485 serial interface with built-in 15KV ESD	
I/O	1xDI, 1xDO	
LED Indicators	"PWR", "Online", "LAN", "WAN", "WIFI", "SYS"	
Antenna Interface	Cellular: 2 x Standard SMA female antenna interface, characteristic impedance: 50 Ω	
Antenna interiace	WIFI: 1 x Standard SMA male antenna interface, characteristic impedance: 50 Ω	
SIM/UIM Slot	2 x Standard 2FF S	IM card slot
Power Interface	Standard 4 pin terminal block interface, with built-in phase-reversal and over-voltage protection	
Reset Button	Can reset router's configuration to default factory setting by this button	
Power Consumption		
Items	Contents	
Standard	DC 12V/1.5A	
Voltage Range	DC 9~36	V
Operating Current	<1.2A (12	V)
Physical Properties		
Items	Content	s
Casing	Aluminum metal casing, IP	30 protection level
Dimensions	91.4x92.4x31mm (excluding an	tennas and mountings)
Weight	200g	
Operating Temperature	-40~+75°	С
Storage Temperature	-40~+85°	C
Relative Humidity	95% (non-cond	ensing)



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Dimension (mm)

91.4

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| User Name | admin | Password | admin | IP | 1923-68.1.1 | Voltage | 49V-36VDC |
| Xiamen Four-Faith Communication Technology Co., Ltd. | Made in China

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Order Information

Model	Description
IWR202	4G(CAT-6), 2 x SIM, 1 x RS232, 1 x RS485, 1 x DI, 1 x DO, 2.4G WIFI
IWP202_5P	5G Redcan 2 v SIM 1 v RS232 1 v RS485 1 v DI 1 v DO 2 4G WIFI

IWR202 CAT4 Version Coming Soon



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