



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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Industrial Router IWR202





- 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	CAT4	CAT6	5G Redcap
Items		Contents	
Standard and Band	LTE FDD: B1/3/5/7/8/20/28 LTE TDD: B38/40/41 WCDMA: B1/5/8 GSM/GPRS/EDGE:	LTE FDD: B1/3/5/7/8/20/28/32 LTE TDD: B38/40/41(120M) WCDMA: B1/3/5/8	5G NR SA: n1/2/3/5/7/8/12/13/14/18/20/25/26/2 8/30/38/40/41/48/66/70/71/77/78/79 LTE FDD: B1/2/3/4/5/7/8/12/13/14/17/18/19/20/ 25/26/28/30/66/70/71 LTE TDD:
Bandwidth	850/900/1800MHz LTE FDD 150Mbps DL, 50Mbps UL LTE TDD 130Mbps DL, 30.5Mbps UL WCDMA: 384Kbps DL, 384Kbps UL	LTE: 300Mbps DL, 50Mbps UL WCDMA: 42 Mbps DL, 5.7Mbps UL	5G SASub-6: 223Mbps DL, 123Mbps UL LTE: 195Mbps DL, 105Mbps UL
Hardware System			
Items	Contents		
CPU	Industrial-grade CPU		
Flash	32MB		
DDR3	128MB		



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WIFI Specification			
Product	CAT4	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"		
Amtauma lutaufa aa	Cellular: 2 x Standard SMA female antenna interface, characteristic impedance: 50 Ω		
Antenna Interface	WIFI: 1 x Standard SMA male antenna interface, characteristic impedance: 50 Ω		
SIM/UIM Slot	2 x Standard 2FF SIM 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 9~36V		
Operating Current	<1.2A (12V)		
Physical Properties			
Items	Contents		
Casing		um metal casing, IP30 protection	
Dimensions	91.4x92.4x31mm (excluding antennas and mountings)		
Weight	200g		
Operating Temperature	-40~+75°C		
Storage Temperature	-40~+85°C		
Relative Humidity	95% (non-condensing)		



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Dimension (mm)

91.4

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| User Name | admin | Passoword | admin | Passoword | 192,148,1.1 | Voltage | 49V-36VDC |
| Xiamen Four-Faith Communication Technology Co., Ltd. | Made in China



Order Information

92.4

Model	Description
IWR202	4G(CAT-4), 2 x SIM, 1 x RS232, 1 x RS485, 1 x DI, 1 x DO, 2.4G WIFI
IWR202-C6	4G(CAT-6), 2 x SIM, 1 x RS232, 1 x RS485, 1 x DI, 1 x DO, 2.4G WIFI
IWR202-5R	5G Redcap, 2 x SIM , 1 x RS232, 1 x RS485, 1 x DI, 1 x DO, 2.4G WIFI



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