



WR200 SPEC SHEET V1.0

4G FNC 300M WiFi Wireless Industrial Router

1. Product Introduction

WR200 is a high-performance Wi-Fi full-netcom 4G wireless industrial router tailored for industrial Internet of Things scenarios. It integrates 4G LTE, 802.11b/g/n 300M Wi-Fi, eSIM/external SIM card software switching, 10/100M adaptive Ethernet interface (4 LAN and 1 WAN/LAN), 485/232 serial ports, 48V PoE WAN, DC 9-48V wide voltage input, IoT platform access, Alibaba IoT MQTT access, 485 transparent transmission, VPN, and Tr069 platform centralized management. It provides advanced internet connectivity and high-speed data access for devices while helping enterprise customers achieve efficient large-scale network deployment and management.

2. Product Image



3. Product Features

- 1) Full industrial device design, metal casing, protection level up to IP30; DC 9-48V wide voltage input with reverse protection function; built-in multiple protections such as static electricity, surge, and fast pulse group to easily adapt to various harsh environments and ensure long-term stable and reliable operation.
- 2) Support RS232/485 serial port device access, pass serial port data to internet servers for real-time data monitoring.
- 3) Support ESIM chip card and external plug-in card software switching, support 4G Telecom, Unicom, Mobile, and Broadcasting network access, support APN/VPDN connection.
- 4) Support wired broadband access and 4G LTE wireless access, wired & 4G backup each other, flexible networking, never disconnect.

- 5) Provide 802.11b/g/n WiFi 300M wireless access, with high-gain antenna, coverage up to 30 meters in open environments; and provide 10/100Mbps wired access, standby capacity up to 32 people.
- 6) Based on WPA2 wireless security access, SSID hiding, guest network, blacklist to always ensure the security of user network data.
- 7) Support PPTP, L2TP VPN for rapid remote networking, combined with virtual servers to achieve fast data exchange.
- 8) Built-in traffic statistics and traffic assistant function to always understand the usage of traffic.
- 9) Built-in quick setup wizard, no professional knowledge required, easy to use 4G LTE access for WiFi internet.
- 10) Continuous product updates, feature and performance optimization to ensure adaptation to various network environments and improve user experience.

4. Technical Specifications

Hardware configuration	
Main chipset	MT7628NN
Clock Frequency	575MHz
Memory	128MB
Flash	16MB
Wireless Technology	802.11b/g/n 300Mbps MIMO
Device interface	WAN*1/LAN*4 10/100Mbps auto-negotiation Standard SIM card (Mini-SIM) RS232/485 serial port DC power supply interface, suitable for power plug with outer diameter of 5.5mm, inner diameter of 2.1mm, and length of over 9.5mm Ground wire
Button	RESET, press and hold for 5 seconds to restore factory settings
Indicator	PWR、SYS、WiFi、4G、Ethernet port
Antenna	External 2.4G 5dBi rubber rod antennas *2 External 4G LTE 5dBi rubber rod antennas *2
Power	DC 9-48V/Phoenix terminal interface, 48V PoE
Operating/Storage Temperature	-10℃~45℃/-20℃~70℃
Operating/Storage Humidity	5%~95% (Non-condensing)
Size	14*9*3cm
Weight	0.3kg

WiFi Spec	
Frequency Range	802.11b/g/n: 2.4~2.4835GHz
Channel	1、2、3、4、5、6、7、8、9、10、11、12、13
Modulation	802.11b: DSSS (DQPSK, DBPSK, CCK) 802.11g: OFDM (BPSK, QPSK, 16-QAM) 802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
Transmission Rate	11b up 11Mbps, 11g up 54Mbps, 11n up 300Mbps
Receiver Sensitivity	11b: $\leq -90 \pm 1.5\text{dBm}$ @1Mbps, $\leq -84 \pm 1.5\text{dBm}$ @11Mbps 11g: $\leq -86 \pm 1.5\text{dBm}$ @6Mbps, $\leq -69 \pm 1.5\text{dBm}$ @54Mbps 11n 20MHz: $\leq -85 \pm 1.5\text{dBm}$ @MCS0, $\leq -67 \pm 1.5\text{dBm}$ @MCS7 11n 40MHz: $\leq -82 \pm 1.5\text{dBm}$ @MCS0, $\leq -64 \pm 1.5\text{dBm}$ @MCS7
Transmit Power	11b: $\geq 20 \pm 1.5\text{dBm}$ @11Mbps 11g: $\geq 20\text{dBm} \pm 1.5\text{dBm}$ @54Mbps 11n: $\geq 20\text{dBm} \pm 1.5\text{dBm}$ @MCS7

4G Spec	
Network Standard	LTE FDD/TDD
LTE-FDD	B1/B3/B5/B8 (supporting hierarchical reception)
LTE-TDD	B34/B38/B39/B40/B41 (supporting hierarchical reception)
Transmission Rate	LTE FDD: Up 150Mbps (DL)/Up 50Mbps (UL) LTE TDD: Up 130Mbps (DL)/Up 30Mbps (UL)
Transmit Power	Class 3 ($23\text{dBm} \pm 2\text{dB}$) LTE FDD Bands Class 3 ($23\text{dBm} \pm 2\text{dB}$) LTE TDD Bands
Receiver	FDD B1: -99dBm (10M) FDD B3: -99dBm (10M) FDD B5: -100dBm (10M) FDD B8: -100dBm (10M)

Sensitivity	TDD B34: -98dBm (10M) TDD B38: -100dBm (10M) TDD B39: -98dBm (10M) TDD B40: -99dBm (10M) TDD B41: -99dBm (10M)
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Software Functions	
Working Mode	4G/Router
Number of connected users	32 Peoples
Management Mode	Chinese WEB Remote Management, Cloud Platform Remote Management
Status	Internet Status, LAN Status & Wireless Status & CPU & Memory Utilization, Connected Users
Network	Internet: System Mode (4G, Router Mode), SIM (SIM Card, eSIM), 4G Network Switch, Network Mode LAN: IP Address/Subnet Mask Settings, DHCP Address Pool APN: Built-in Four Sets of APN Settings
Wireless	Basic Settings: Wireless Switch, Wireless Name, Wireless Encryption, Wireless Password, 2.4G Guest Network Advanced Settings: Country, Wireless Mode, Wireless Channel Bandwidth, Wireless Channel, Transmit Power, 2.4G Hidden
4G Traffic	Used, Residual, Month Used, Day Used, Days to monthly settlement, Monthly Data Limit, Month Settlement Day, Traffic Control Switch Setting
Advance	Parental Control, Blacklist, Static Routing, Virtual Servers, VPN Client (PPTP, L2TP)
Platform settings	IoT platform, Cloud platform,

	485/232 Pass Through, Alibaba Cloud 485-MQTT Transparent Transmission Setting
System	Configuration Management: Software Version, Firmware Upgrade, Reboot, Reboot Scheduled, Backup Configuration, Configuration Restore, Restore factory configurations System Time: NTP Client, NTP Server, Time Zone Setting Administrator Password
Quick Setup	Internet-WiFi-Admin Password

5. Product Dimensional Drawing



