



Industrial 4G WiFi Router 2-Port Single-SIM

GP-R520 Series



INDUSTRIAL NETWORK SOLUTION SPECIALIST
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Introduction

GP-R520 series is an industrial-grade 4G WiFi router with high-adaptability, high-reliability and high-stability. It supports FDD-LTE, TDD-LTE, WCDMA(HSPA+), CDMA2000(EVDO), TD-Scdma 3G/4G mobile network. GP-R550 series provide 1*Gigabit LAN ports, 1*Gigabit WAN port, 1*485/232 and WIFI interface.

GP-R520 series industrial 4G WiFi router widely used in finance, postal, smart grid, charging piles, self-service equipment, intelligent transportation, environmental monitoring, fire monitoring, security monitoring, water conservancy monitoring, public safety, advertising, industrial control, seismic monitoring, meteorological monitoring, instrument monitoring and other industries.

Main Feature

Industrial Design

- Adopt High-performance industrial-grade 4G module
- Adopt high-performance industrial-grade 32bit MIPS Processor
- Power supply: +7.5V~+32V DC
- Adopt sheet metal cold-rolled steel shell, which has strong heat dissipation
- Protection Level : IP40 (Can be designed up to IP51)

Platform Manage

- Support Online Monitoring
- Support Remote Parameter Backup
- Support Remote Parameter Configuration
- Support Remote Device Upgrades
- Support Remote Reboot and Log Query

Network Feature

- Support Port Traffic Detection
- Support Real-time Link Monitoring
- Support serial port DTU function
- Support MQTT Protocol/Modbus protocol
- Support GPS Positioning (optional function)
- Support Port forwarding, DMZ, and static NAT

Network Function

- Support 4G network and backward compatible with 3G/2G
- Support Dual-Modular/Dual-SIM load balancing, link backup, link aggregation
- Support WiFi IEEE802.11b/g/n protocol
- Support standard RS-232/485 serial port and supports serial port DTU
- Support hardware WDT and provide anti-drop mechanism
- Support multiple VPN protocols.
- Support DHCP, DDNS, firewall, NAT, and DMZ host functions
- Support ICMP, TCP, UDP, Telnet, SSH, FTP, HTTP, HTTPS, Modbus and etc Network function
- Support SNMP Management Protocol
- Support Reboot

Stable & Reliable

- ESD protection for all interfaces to prevent electrostatic shocks
- Multiple device self-test mechanisms ensure smooth links and alarms
- Support network signal strength indicator display in three levels
- Adopt software and hardware watchdog and multi-level link detection mechanism
- Support automatic fault detection and automatic recovery to ensure the stable and reliable operation of the equipment.

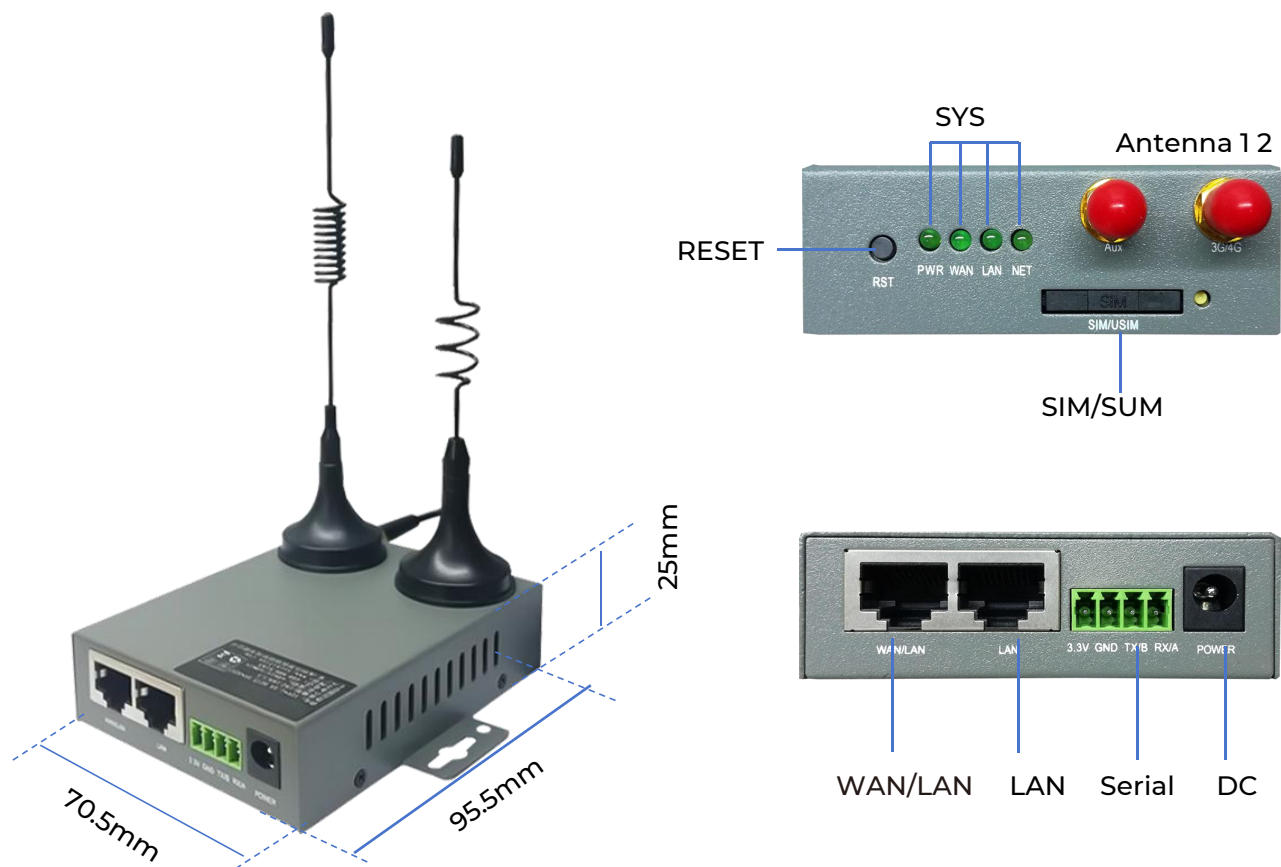
Software Parameter

Function	Working Mode	Wired/Wireless/Compatible Mode
	WiFi	AP/ Client Mode
	Router	Support PPPOE/ staticIP/ dynamicIP
	Serial Server	Support DTU Transmission Support TCPserve/TCPclient Support UDP Support Modbus Protocol
	VPN	GRE, PPTP, L2TP, IPSec, EOIP, openVPN, N2N
	Management	Local Deploy/Remote Deploy
	Extended Function	Support GPS Positioning 【Optional】 Support internal storage expansion , 2GB-32GB 【Optional】
4G	Wireless Module	Industrial-grade 4G module
	Frequency	FDD-LTE (Band1/3/5 B1/3/5/7/8/20 B2/4/5/12/13/17/25/26) TDD-LTE (Band38、Band39、Band40、Band41) HSPA (850/900/1900/2100MHz) /GSM850/900/1800/1900MHz EV-DO (800MHz) 、TD-Scdma (Band34、Band39)
	Theoretical Bandwidth	FDD/TDD LTE: UL 50Mbps/DL 100Mbps HSPA+: UL 5.76Mbps/DL 21Mbps EVDO: UL 1.8Mbps/DL 3.1Mbps
	Consumption	2.3W
	Receiving Sensitivity	-108dBm@10MHzQPSK
WiFi	Frequency	Support IEEE802.11 b/g/n
	Rate	2.4G :150Mbps (Optional)
	Security Encryption	Support WEP, WPA, WPA2 and other encryption methods WPS Optional
	Transmit Power	16-17dBm (11g) , 18-20dBm (11b) 15dBm(11n)
	Receiving Sensitivity	<-72dBm@54Mbps
GPS		Optional

Hardware Parameter

Size		95.5mm × 70.5mm × 25mm
Weight		210g
Port	WAN	1 x Eth port, Auto adapt MDI/MDIX, Built in 1.5KV ESD
	LAN	1 x Eth port, Auto adapt MDI/MDIX, Built in 1.5KV ESD
	Serial Server	Support RS-232/RS485 (Default RS-232)
	Indicator	"PWR"、"WAN"、"LAN"、"NET"
	Antenna	1× SMA Female Antenna (3G/4G Antenna Port) 1× Aux/GPS (Optional)
	SIM/UIM	Standard Drawer Type(1 x SIM slot) 1.8V/3V SIM/UIM,15KV ESD protection
Reset Button		1× Reset Button
CPU		650MHz Dual-Core
FLASH		16MB
RAM		128MB
Working/Storage Temperature		-40°C ~ 80°C/-45°C ~ 85°C
Working/Storage Humidity		5%~95%(non-Condensation)
IP Protection		IP40 Protection,Electromagnetic shielding, windproof, sunproof, shockproof and heat dissipation design
Power		DC7.5V~32V (Standard: DC12V/1.5A Built-in power supply instantaneous overvoltage protection

Appearance & Accessories



Packing*1



Device*1



Antenna(Optional)



Accessories *1



Manual*1

Model Selection

Model	GP-R520-232	GP-R520-W-232	GP-R520-485	GP-R520-W-485	Custom
4G-FDD	●	●	●	●	○
4G-TDD	●	●	●	●	○
2.4G Wifi	-	●	-	●	○
RS232	●	●	●	-	○
RS485	-	-	●	●	○

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