



# Industrial 4G WiFi Router 5-Port Dual/Single-SIM

**GP-R550 Series**



INDUSTRIAL NETWORK SOLUTION SPECIALIST  
[WWW.GPSENKE.COM](http://WWW.GPSENKE.COM)



# Introduction

GP-R550 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 4\*Gigabit LAN ports, 1\*Gigabit WAN port, 1\*485/232 and WIFI interface.

GP-R550 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.

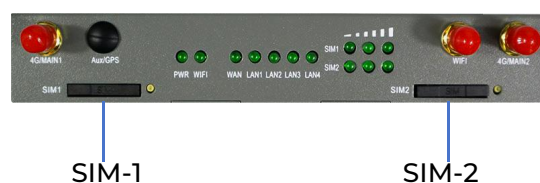
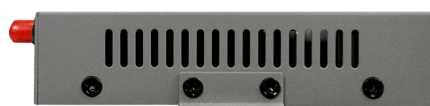
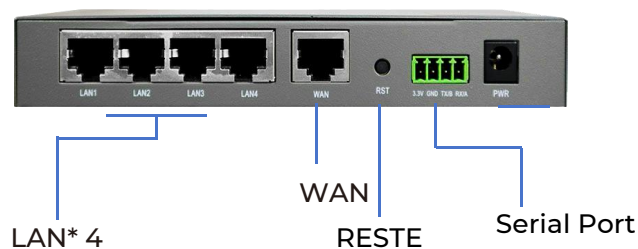
## Software Parameter

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
	Receiving Sensitivity	<-109dBm
WiFi	Frequency	Support IEEE802.11 b/g/n
	Rate	150Mbps/300Mbps (Optional)
	Max Users	64+
	Security Encryption	Support WEP, WPA, WPA2 and other encryption methods
	Transmit Power	16-17dBm (11g) , 18-20dBm (11b) 15dBm(11n)
	Receiving Sensitivity	<-72dBm@54Mbps
GPS		Optional

## Hardware Parameter

Size		152mm×104mm×25mm
Weight		425g
Port	WAN	1 x 1000M Eth port, Auto adapt MDI/MDIX, Built in 1.5KV ESD
	LAN	4x 1000M Eth port, Auto adapt MDI/MDIX, Built in 1.5KV ESD
	Serial Server	Support RS-232/RS485 (Default RS-232)
	Indicator	1×“PWR” 1×“WiFi” 1×“WAN” 4×“LAN” 3×“Signal”
	Antenna	2× SMA Female Antenna (3G/4G Antenna Port) 2 × SMA Female WiFi Antenna Port GPS: Optional
	SIM/UIM	Standard Drawer Type(1/2 x SIM slot) 1.8V/3V SIM/UIM,15KV ESD protection
Reset Button		1× Reset Button
CPU		550MHz Dual-Core
FLASH		16MB
RAM		64MB
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


Rubber Duck  
Antenna\*4


Accessories \*1



Manual\*1

## Model Selection

### GP-R550 Single-SIM Series

Model	GP-R550-232	GP-R550-485	GP-R550-W-232	GP-R550-W-485
WiFi	-	-	●	●
FDD-LTE	●	●	●	●
TDD-LTE	●	●	●	●
RS232	●	-	●	○
RS485	-	●	-	●

### GP-R550-D Dual-SIM Series

Model	GP-R550-D-232	GP-R550-D-485	GP-R550-D-W-232	GP-R550-D-W-485
WiFi	-	-	●	●
FDD-LTE	●	●	●	●
TDD-LTE	●	●	●	●
RS232	●	-	●	-
RS485	-	●	-	●

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Update Time: 2024.6.1

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