



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

GP-R550 Series



INDUSTRIAL NETWORK SOLUTION SPECIALIST
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.

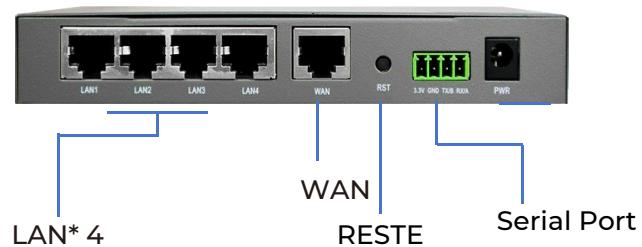
Software Parameter

Function	Working Mode	Wired/Wireless/Compatible Mode
	WiFi	AP/ Client Mode
	Router	Support PPPOE/ staticIP/ dynamicIP
	Serial Server	Support DTU Transmission Support TCPserver/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】
	Wireless Module	Industrial-grade 4G module
4G	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



SIM-1 SIM-2



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	-	●	-	●

INDUSTRIAL NETWORK
SOLUTION SPECIALIST



© GPSENKE(CHINA) | All rights reserved.
Update Time: 2024.6.1

This document and any part thereof may not be reproduced or used in any manner without the express written permission of GPSENKE (China).

Product specifications are subject to change without prior notice.
Please visit our website for the latest product information.