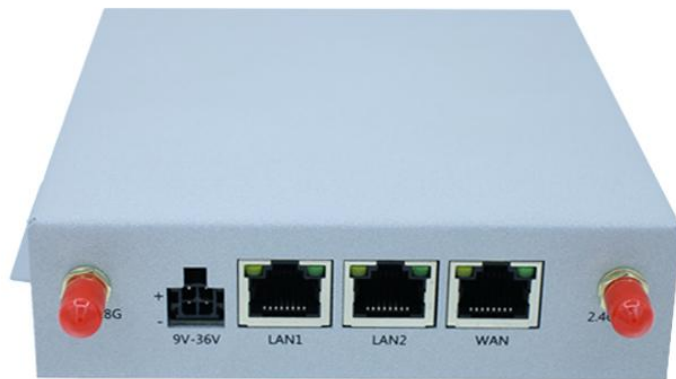# Model: WS1209-5G

Product description: Vehicle 5G Router

Version: V1.2

Picture

1. Product introduction:

WS1209-5G is a 5G/4G+WiFi dual band 1200M industrial grade vehicle router, which supports three gigabit Ethernet communications, WIFI LAN (802.11 b/g/n/a/ac) communications and WAN 4G/5G wireless communication functions. The device is loaded with WAN communications, WIFI LAN transmission security certification, 5G/4G/3G system watchdog and other functions, realizing seamless connection between WLAN and wireless WAN, automatic redial when disconnected, and providing users with high-speed Safe and reliable mobile broadband service;

The equipment adopts metal shell, special vehicle anti-interference design, good anti-interference performance, and safe anti-theft frame. The on-board special power supply design is adopted to support the on-board 12V and 36V power supply systems, which can effectively prevent the damage of the on-board power supply fluctuation to the equipment. It is applied to the WIFI wireless Internet access of various mobile vehicles, such as bus WIFI, long-distance bus WIFI, bullet train WIFI and taxi WIFI. At the same time, the equipment is also widely used in the WIFI coverage of scenic spots and other public places.

2. Product characteristics.

- Comply with 802.11b/g/n/a/ac.
- Wireless transmission power: 802.11b 18dBm ± 2dBm, 802.11g 15dBm ± 2dBm, 802.11n 15dBm ± 2dBm 802.11a 20dBm±2dBm 802.11ac 20dBm±2dBm.
- Three 10/1000 Mbps adaptive Ethernet interfaces are provided to support automatic rollover (Auto MDI/MDIX).
- One USB2.0 data interface.
- One MICRO SD (TF) card interface (FAT32 format 16G read-write, over 16G only support read; NTFS format 16G read-write, over 16G only support read; EXT4 format 128G read-write).
- One PCI-E 4G module interface and one M2 5G module interface.
- Support 5G/4G/3G watchdog software function, and automatically redial when the network is disconnected.
- Through external USB interface.
- Support GPS function (depending on 5G4G module)
- Support one button RESET function
- Support 12V and 36V system of automobile power supply, with minimum working voltage of 9V and maximum working voltage of 36V. It can withstand a surge voltage of 174V with a duration of 150ms at most, meeting 5a and 5b standards for on-board protection.
- Support multiple encryption methods to ensure the safe transmission of data
        Rich software management settings.

- Support openwrt firmware, customize firmware development, and provide SDK technical support.

3. Hardware specifications.

WS1209-5G	Hardware Specifications	
Hardware Specifications	MT7621A+7612+7603 Dual Core 880MHZ DDR3 memory 256MB SPI FLASH 16MB
4G 5G Modem	4G or 5G modules can be selected, and the frequency band can be selected, Support Cat4/6/12/16/20
Antenna	6 external 5dbi high gain omni-directional antennas (2 wifi antennas, 4 5G, 4G module antennas according to customer requirements)
Interface	1*10/100M/1000M WAN port with automatic MDI/MDIX 2*10/100M/1000M LAN ports, auto MDI/MDIX or 2PCS LAN can be selected. 1*USB 2.0 port 1*PCI-E 1*M.2 1*SIM card 1*SD card 1*4PIN Power interface
LED	Power/SYS/USB/2.4G/5.8G/4G5G/USB
Button	1 Reset button
Power adapter	9V-36V Vehicle wide voltage
Maximum power consumption	< 24W
Color scheme	Black
Accessories and Packaging	Power cord Super Category 5 network cable *1PCS Antenna*6PCS

WS1209-5G	Software Specifications	
Factory default settings	IP address:192.168.1.1 User/password:root/admin
WAN access mode	PPPoE, dynamic IP, static IP
Operating Mode	ROUTER
DHCP server	DHCP servers. Client lists. Static address assignment.
Virtual Server	Port forwarding. DMZ hosting.
Supportable system	Original SDK, openwrt,rooter
Security Settings	Wireless encryption, support WEP, WPA, WPA2 and other security encryption modes
DDNS	Support
VPN	Support
WEB Theme Switching	Support
Bandwidth Control	Support
Static Routing	Support
System log	Support
Other useful functions	Configuration file import and export Web software upgrade ...
Product size:	130*110*30mm
WS1209	Other specifications	
Working Environment	Operating temperature: -25℃ to 65℃. Storage temperature: -40° C to 70° C. Operating humidity: 10% to 90%RH non-condensing. Storage humidity: 5% to 90%RH non-condensing.