

Specification

USR-G810

5G Industrial cellular Router



Build a Smarter IOT world, Your Trustworthy Partner



USR-G810 5G industrial wireless router is designed to be a high speed, wide coverage, and low latency router which offers multiple internet access with 5G/4G/3G, Ethernet, and dual-band Wi-Fi, and provides users with strong, reliable performance and diverse networking solutions.

The product adopts high-performance dual-core processor, working frequency up to 880MHz, equipped with 2.4GHz, 5.8GHz dual-band Wi-Fi, supports Gigabit LAN/WAN port, based on various hardware interfaces and powerful software functions, users can quickly build their own applications.

USR-G810 is suitable for various applications in harsh environments such as Internet of Vehicles, smart medical, unmanned vehicles, smart cities and so on.

Features

Stable and reliable

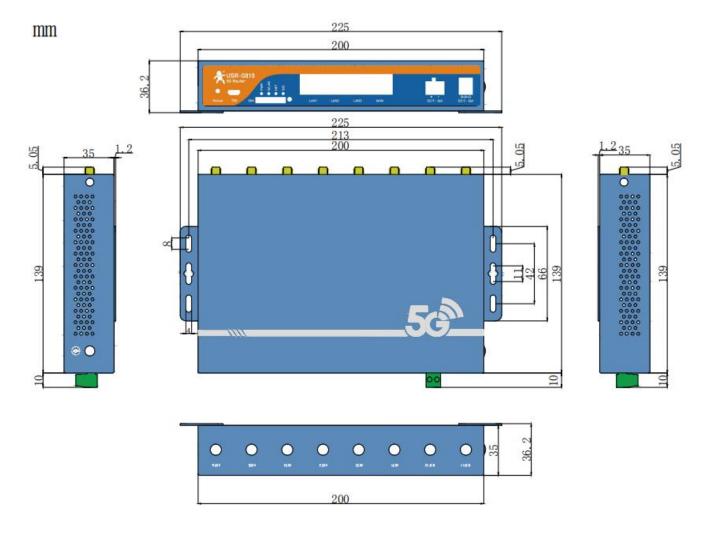
- Industrial design, metal housing, Protection Rating IP30
- Wide voltage DC 9-36V input, with power reverse protection
- Multiple protections against electronic static discharge, surges, and Electrical fast transient burst
- Embedded with hardware watchdog and fault self-detection and self-repair mechanism to ensure system stability
- Provide a 5G network with high speed, low latency and high stability
- Supports NSA 和 SA modes, Backward compatible with 4G/3G network standard
- 4 Gigabit Ethernet ports to ensure high-speed data transmission
- The scientific layout of 6 high-gain antennas effectively reduces co-frequency interference and stabilizes sending and receiving data
- Support automatic network inspection, 5G/4G/3G standard switching, support APN/VPDN dedicated network card
- Auto-failover between Ethernet, Wi-Fi and 4G/5G internet
- Supports 2.4GHz and 5.8GHz dual band Wi-Fi
- Support multiple VPN protocols such as PPTP、L2TP、IPSec、OpenVPN、GRE and Cryptography

Powerful

- Support multiple WAN connection methods, including static IP, DHCP, PPPoE, 3G/4G/5G
- Support DDNS,NAT,static routing function
- Support filtering,port mapping,access control
- Support ssh、telnet、Web management
- Support configuration parameter import/export to improve configuration efficiency in mass applications
- Support remote firmware upgrade, remote equipment monitoring, easy to realize remote operation and maintenance of equipment
- Support link detection function, provide anti-drop mechanism to ensure long-term online



Dimensions



- Sheet metal housing, fixed holes on both sides, compatible with DIN Rail mounting
- Dimensions: 200.0*140.0*35.0mm (L*W*H, Excluding installation parts, power terminals and antenna base)
- Fixed holes position: 213.0*42.0mm(L*W*H)

Specification

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Cellular	Module	Industrial grade cellular module		
	Frequency bands	5G Sub-6: n1, n3, n5, n8, n20, n28, n38, n41, n77, n78, n79		
		LTE FDD:B1, B3, B5, B7, B8, B18, B19, B20, B28, B32		
		LTE TDD: B38, B40, B41, B42, B48		
		WCDMA: B1, B3, B5, B8, B19		
	Bandwidth	5G NR:up to 900Mbps uplink,up to 2.1Gbps downlink		
		LTE:up to 150Mbps uplink,up to 1Gbps downlink		
		HSPA+:up to 5.76Mbp uplink,up to 42Mbps uplink		
	TX PWR	Class 3 (23dBm±1dB)		
	Frequency	IEEE802.11b/g/n,2.4GHz,AP mode		
	bands	IEEE802.11ac,5.8GHz,AP mode		
Wi-Fi	Bandwidth	2.4G:up to 300Mbps,5.8G:up to 867Mbps		
	AUTH type	WPA-PSK,WPA2-PSK,MPA3-PSK		
	Encryption algorithm	TKIP,AES		
	Transmission distance	Outdoor:up to 200 meters by line of sight without obstruction		
		Indoor: up to 40 meters Actual transmission distance depends on environment of the site.		
		1 10/100/1000M Ethernet port, auto MDI/MDIX, 1.5KV network isolation transformer		
	WAN	protection		
	LAN	3 10/100/1000M Ethernet port,auto MDI/MDIX,1.5KV network isolation transformer		
Interfaces		protection		
	Indicators	PWR,WLAN,NET,SIG		
	Antennae	Cellular:6xSMA Female (Outer screw inner hole)		
	0114	Wi-Fi:2xSMA Female(Outer screw inner hole)		
	SIM card	6PIN drawer-type SIM card slot,3V/1.8V 2FF mini SIM card		
	Power supply	DC Power Jack Barrel Type Female 5.5*2.1mm Round socket + 2 PIN industrial terminal block,anti-reverse connection		
	Reload	Pinhole reset button,Long press for more than 5s to release to restore factory settings		
	TBD USB	Debug and flash		
Power supply	Power adaptor	DC 12V/2A		
	Voltage range	DC 9-36V		
	Current	Average 524mA,Peak 637mA/12V		
Mechanic al	Housing	Metal,IP30		
	dimensions	200.0*140.0*35.0 (L*W*H)		
EMC	ESD	IEC 61000-4-2 Level 3		
	Surge	IEC 61000-4-5 Level 3		
	EFT	IEC 61000-4-4 Level 3		
Ambient Environm ent	Operating Temperature	-20℃~+70℃		
	Storage Temperature	-40℃~+125℃		
	Humidity	5%~95%RH (non-condensing)		



oftware Param	eters	
	Ethernet port	WAN:DHCP,PPPoE,static IP
	Ethernet port	LAN:DHCP,static IP
	Network access	APN,VPDN,private network
Network		Support network priority setting
Connection	Wi-Fi	IEEE 802.11b/g/n/ac
	Static routing	Support routing table addition and viewing, easy implementation of path
	Static routing	selection, sub-net interconnection and other applications
	IP Application	Ping,route trace,DNS,DDNS
		Telnet, web, ssh and AT command
	Configuration	Support configuration parameter import/export to improve configuration
		efficiency in mass applications
		Local system log, remote log, and serial export of log. Power down saving of
Device management		important logs, which is convenient for technicians to quickly locate applicatio problems
		Free cloud platform device manager enables you to monitor and configure
	Remote	thousands of routers with minimum effort
	management	Support real-time view of network status, online and offline reminder, abnormatical situation alert pushing
	Link Detection	Sends heartbeat packets to detect,auto redials when disconnected
	Embedded Watchdog	Device runs self-detection,auto recovers from malfunctions
Security	Network Security	Multicast filter/Ping probe packet,Access Control List (ACL),
	Network Security	port mapping,virtual IP mapping,IP-MAC binding
	Data Security	Supports PPTP,L2TP,GRE,IPSEC VPN (IKEv1,IKEv2),OPENVPN protocols
	Data Occurry	Supports CA digital certificate
Others	Rich protocols	Built-in multiple common protocols, support industry protocol, private protocol customization

Purchase & After Sale

Official website: http://www.pusr.com/ Technical support: http://h.usriot.com/

