

USR-G808 Specification

Dual module 4G cellular router



Product Description

USR-G808 is a dual sim dual module 4G wireless industrial router. It integrates 4G LTE CAT4, Wi-Fi, and VPN technologies.

This product is suitable for the networking of unattended devices and sites. It is embedded with watchdog, multilayer link detection mechanisms and failover with dual sim and WAN to ensure reliable and stable communications. Using our remote management platform, users can manage their network efficiently.

Featuring intelligent software functions and industrial-grade design, the G808 industrial cellular router can provide high-reliable, high-speed and secure communications for remote devices wherever they locate, helping enterprise customers achieve efficient large-scale network deployment and management. It is ideal for M2M and industrial IoT applications, such as

- ✧ Smart terminal industry: smart express cabinets, charging piles, ATM machines, ticket vending machines, and automatic vending machines.
- ✧ Power industry: smart grid, substation monitoring
- ✧ Water conservancy industry: water & waste water monitoring, water conservancy remote control
- ✧ Municipal industry: street lamp monitoring system, smart transportation
- ✧ Environmental industry: atmospheric environment monitoring, noise monitoring
- ✧ Agricultural applications: greenhouse monitoring system, agricultural irrigation
- ✧ Other industries: industrial automation, elevator monitoring, factory digitization, store networking system, logistics industry, smart medical, security oil & gas, smart manufacturing, digital manufacture devices

Product Features

■ Stable and reliable

- Metal shell, IP30 protection. Ethernet ports support 1.5KV isolation transformer protection.
- Wide operating temperature. Wide voltage input, reverse polarity protection.
- ESD, Surge, EFT protection.
- Embedded hardware watchdog, self-recovers from malfunctions, maintaining high device availability.

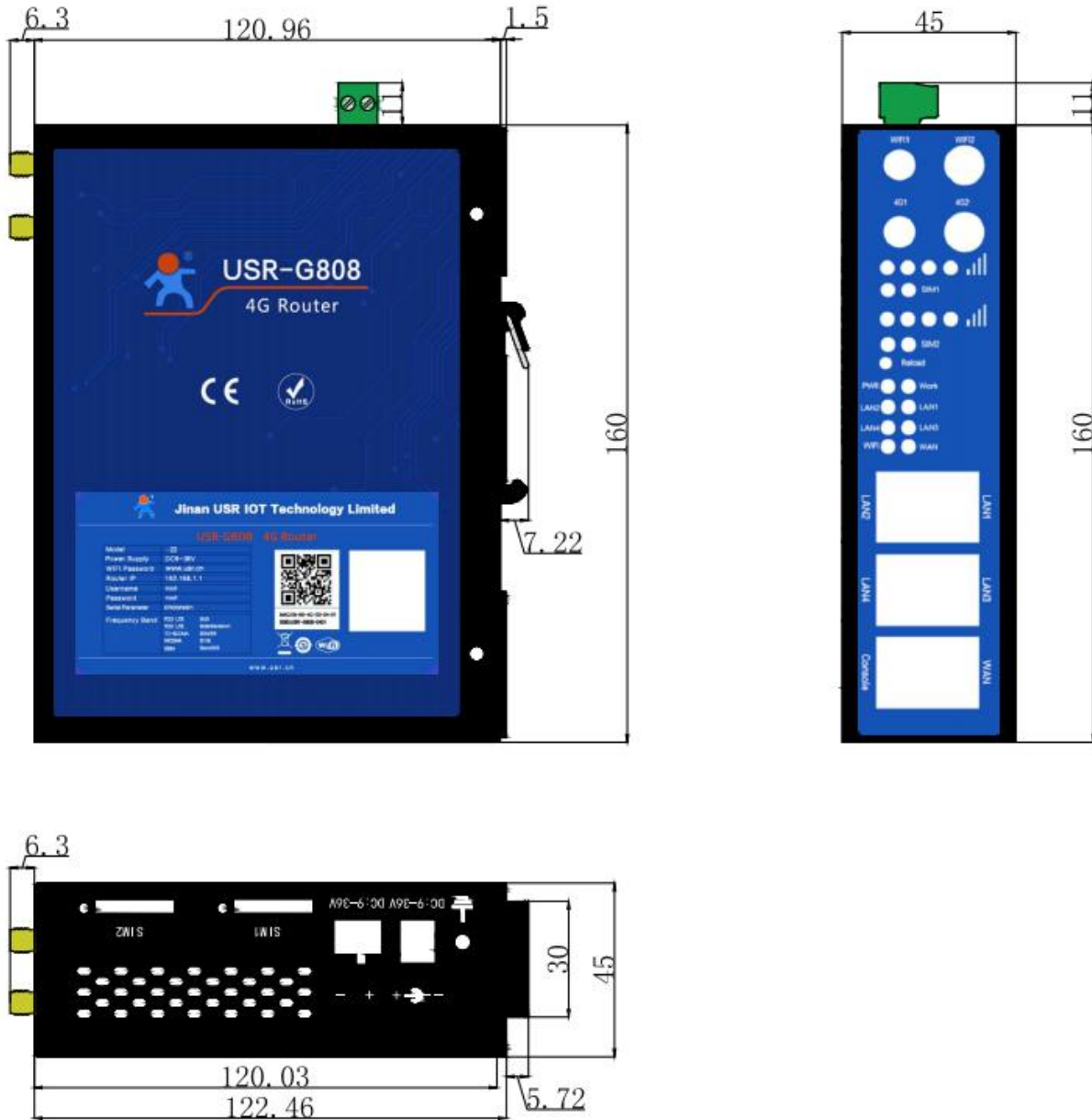
■ Uninterrupted network access

- Provide 4G LTE CAT 4 network, with 3G/2G network fallback, support automatic network inspection, support APN/VPDN dedicated network card
- Supports Dual SIM & Ethernet as WAN, Failover between 4G and WAN, ensures automatic switch to alternative backup connection, effectively ensuring uninterrupted data transmission.
- VPN tunnel detection: maintains stable connection of the VPN tunnel, ensuring continuous transmission.
- Multi-layer link detection mechanism, automatic redial and recovery.

■ Powerful Functions

- Supports WLAN, IEEE 802.11b/g/n, 2.4GHz AP mode, scaling more devices access
- Supports APN automatic inspection, mode switch, SIM information display, supports private sim card
- Supports DDNS, PPPOE, DHCP, Static IP
- Allows multiple network management methods including SSH, WEB, TELNET and a network management platform
- Supports remote monitoring, upgrade and parameter configuration
- Supports IPsec VPN, PPTP, L2TP, OPENVPN, GRE etc., ensuring secure data transmission.
- Supports firewall functions including NAT, access control, DDoS defense, DMZ, IP-MAC binding, etc., protecting the network against external attacks.

Dimensions



USR-G808 Dimensions

- Unit: mm.
- Dimensions: 160*121*45mm(L*W*H).Power terminal, antenna connector installation components are not included.
- Installation Method: 35mm DIN-rail mounting,ear mounting.200*121*45mm(L*W*H) when ear mounting

Specifications

Hardware Specifications		
Cellular Interface	Antenna	2 x SMA-K
	SIM card	2 x (3 V & 1.8 V) Standard 2FF SIM, drawer-type sim card slots
Ethernet	1 x WAN port 10/100 Mbps, compliance with IEEE 802.3, supports auto MDI/MDIX,1.5KV network isolation transformer protection	
	4 x LAN port, 10/100 Mbps, compliance with IEEE 802.3, IEEE 802.3u standards, supports auto MDI/MDIX,1.5KV network isolation transformer protection	
Indicators	LED	<p>PWR: always on after powered on</p> <p>WLAN: always solid on when WiFi is enabled and working properly</p> <p>WAN: solid when cable is connected, blinking when data is transmitting and receiving</p> <p>LAN: solid when cable is connected, blinking when data is transmitting and receiving</p> <p>Work: green,blinking when the router is ready and working properly</p> <p>SIM1/SIM2:</p> <p>Red always on after connected to 2G network</p> <p>Green always on after connected to 3G network</p> <p>Both on after connected to 4G network</p> <p>Signal strength: 4 solid bars,strongest signal</p>
Wi-Fi	Standards & Frequency	IEEE 802.11b/g/n,2.4GHz, AP mode
	Data speed	IEEE 802.11b/g,maximum 54Mbps.IEEE 802.11n,maximum 150Mbps
	WLAN security	OPEN,WPA-PSK,WPA2-PSK TKIP,AES
Power Supply	Antenna	2 x SMA-K
	Adaptor	DC 12V/1A
	Connector	DC Power Jack Barrel Type Female 5.5*2.1mm Round socket or 2 PIN 5.08mm industrial terminal block,reverse polarity protection
	Input voltage	DC 9~36V
	Working power	Average 391mA/12V
Physical Characteristics	Housing	Metal shell,IP30
	Dimensions	160mm*121mm*45mm(H*L*W)
	Installation method	Ear mounting, DIN-Rail mounting
	EMC	Static IEC61000-4-2, level 2 Pulsed Electric Field IEC61000-4-4, level 2 Surge IEC61000-4-5, level 2
	Operating temperature	-20℃~+70℃
	Storage temperature	-40℃~+125℃
	Operating humidity	5%~95%RH (non-condensing)
Others	Reload	Pinhole reset button
	Console	Debug interface
	Ground protection	Screw
Certificate	CE,CCC,ROHS	

Software Specifications		
Network Connection	WAN	PPP, PPPoE, DHCP client
	LAN	ARP, DHCP server, NAT
	4G network access	Auto APN/VPDN, public/private network Access authentication: CHAP/PAP Support detection keep-alive mechanism to ensure the stability of data communication Support SIM card information display Completely independent dual sim cards networking,dual operators online at the same time
	Wi-Fi	2.4G Wi-Fi AP
	IP routing	Static routing table
	Network diagnosis	Ping,route trace,DNS
	IP-MAC banding	Support the binding of the IP address and MAC address of the subnet device to each other, and assign a fixed IP to the specified device.
	Device management	Configuration
Remote management		Telnet, SSH, AT command
Remote management platform		Remote monitoring,remote upgrade
Security	Failover backup	Failover between 4G and WAN, ensures automatic switch to alternative backup connection
	Firewall	DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control
	VPN	Supports PPTP, L2TP, GRE, IPSEC VPN (IKEv1), OPENVPN protocols
Service	DDNS	Remote access the device through domain name
	Others	Support local upgrade and remote upgrade; Support configuration backup, import and export configuration files; Support NTP client function, real-time synchronization of network time; Support login password modification to ensure login security;

Ordering guide

USR-G808 Ordering Guide		
Model	USR-G808-EE	
Region	EMEA & APAC	
Frequency	TDD-LTE	B38/B40/B41
	FDD-LTE	B1/B3/B5/B7/B8/B20
	WCDMA	B1/B5/B8
	GSM/GPRS/EDGE	B3/B8
Model	USR-G808-AA	
Region	North America	
Frequency	FDD-LTE	B2/B4/B12
	WCDMA	B2/B4/B5
Model	USR-G808-AU	
Region	Australia & Latin America & New Zealand & Taiwan	
Frequency	TDD-LTE	B40
	FDD-LTE	B1/B2/B3/B4/B5/B7/B8/B28
	WCDMA	B1/B2/B5/B8
	GSM/EDGE	B2/B3/B5/B8
Model	USR-G808-33	
Region	China	
Frequency	TDD-LTE	B38/39/40/41
	FDD-LTE	B1/B3/B5/B8
	WCDMA	B1/B8
	TD-SCDMA	B34/B39
	EVDO/CDMA1X	BC0
	GSM/CPRS/EDGE	900/1800MHz

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