



USR-G806 specification

4G industrial cellular
VPN router



The USR-G806 is an IoT cellular router that integrates 4G LTE, Wi-Fi, and VPN technologies to provide an easy, reliable, secure Internet connectivity and high-speed data access for equipment networking. With technologies such as 4G wireless wide area network, Dual Ethernet ports (LAN + WAN), Wi-Fi wireless local area network it provides uninterrupted multiple network access capabilities.

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

The G806 can be used in a wide range of industrial and commercial IoT applications, providing an option of good balance between cost and performance. The router occupies a very small footprint which is suitable for large-scale distributed industrial applications, such as smart express cabinets, charging piles, CCTV, bank ATM machines, ticketing machines, vending machines, Tower monitoring, digital signage, electricity, water conservancy, environmental protection, etc.

Key Features

■ Stable And Reliable

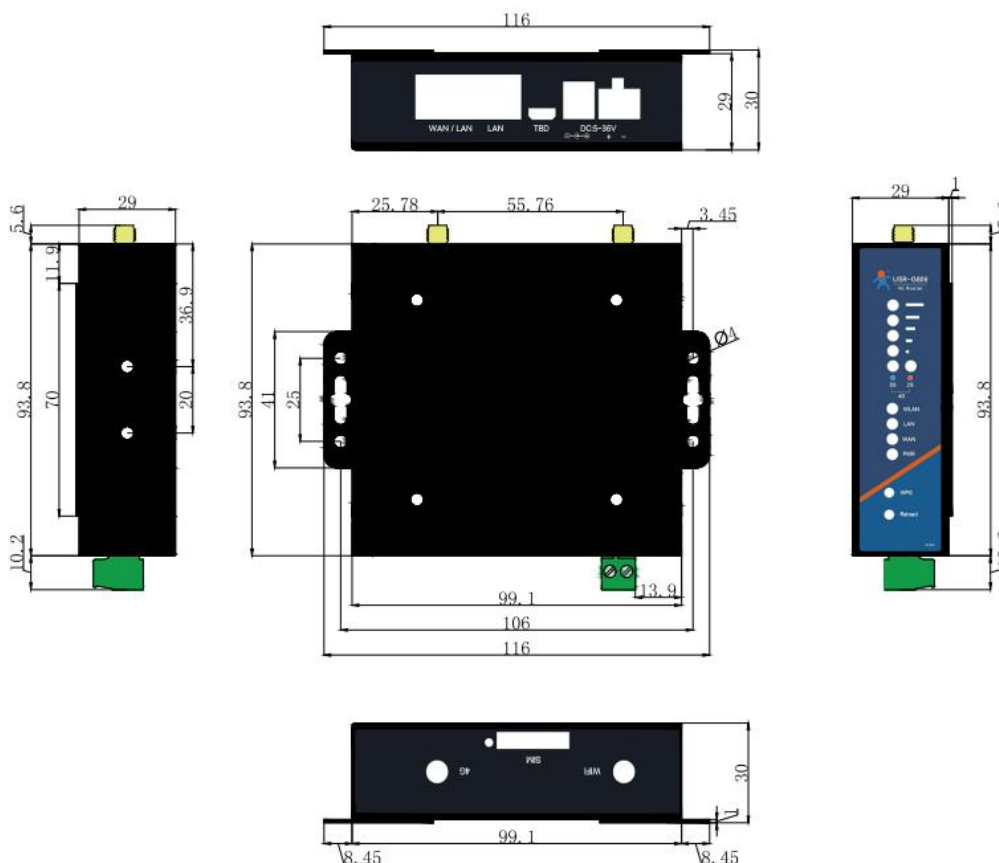
- Metal shell, IP30 protection. Ethernet ports support 1.5KV isolation transformer protection.
- Wide operating temperature. Wide voltage input, reverse polarity protection.
- ESD, Surge, EFT protection.
- Embedded hardware watchdog, self-recovers from malfunctions, maintaining high device availability

■ Uninterrupted network access

- Supports 2G/3G/4G network all over the world, supports APN/VPDN sim card
- 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.

Rich functions

- Supports firewall functions including NAT, access control, DDoS defense, IP-MAC binding, etc., protecting the network against external attacks
- Supports WLAN, scaling more devices access
- Supports APN automatic inspection, mode switch, SIM information display, supports private sim card
- Supports IPsec VPN, PPTP, L2TP, OPEN VPN, GRE etc., ensuring secure data transmission
- Supports DDNS, PPPOE, DHCP, Static IP
- Allows multiple network management methods including SSH, WEB, TELNET and a network management platform
- Supports PUSR cloud platform to facilitate remote monitoring and central management of large-scale device networks.
- Supports remote monitoring, upgrade and parameter configuration, remote access to the built-in web pages
- Supports email alarm, SMS alarm, abnormal alarm push in time
- Dual Ethernet ports, WAN/LAN
- Multiple VPN protocols
- Wall-mounting and DIN-rail mounting options available, easy to install



- Unit: mm.
- Dimensions: 99.1*93.8*29.0mm(L*W*H). Power terminal, antenna connector are not included.
- Installation Method: 35mm DIN-rail mounting, Panel mounting.

Specifications

Hardware Specifications			
Cellular Interface	Antenna	1 x SMA-K Note: North America models: 2 x SMA 4G antenna connectors.	
	SIM card	1 x (3 V & 1.8 V) Standard 2FF SIM, drawer-type sim card slots	
Ethernet	1 x WAN port (can be configured to LAN) 10/100 Mbps, compliance with IEEE 802.3, supports auto MDI/MDIX,1.5KV network isolation transformer protection		
	1 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>2/3/4G mode indicator: 2G led is on after connected to 2G network 3G led is on after connected to 3G network Both leds is on after connected to 4G network</p> <p>Signal strength: 4 solid bars,strongest signal</p>	
WiFi Interface	Standards & Frequency	IEEE 802.11b/g/n,2.4GHz, AP mode	
	Data speed	IEEE 802.11b/g,maximum 54Mbps.IEEE 802.11n,maximum 150Mbps	
	Antenna	1 x SMA-K	
	Transmission distance	80 meters by line of sight.Actual transmission distance depends on environment of the site.	
Power Supply	Adaptor	DC 12V/1A	
	Connector	DC Power Jack Barrel Type Female 5.5*2.1mm Round socket or 2 PIN industrial terminal block,reverse polarity protection	
	Input voltage	DC 9~36V	
	Working power	Average 175mA/12V	
Physical Characteristics	Housing	Metal shell,IP30	
	Dimensions	110.0*94.0*29.0 mm(L*W*H)	
	Installation method	Panel 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	
	TBD	Debug interface (TTL Level)	
	Embedded Watchdog	Device runs self-detection, auto recovers from malfunctions	
Certificate	CE,CCC,FCC,ANATEL,PTCRB,AT&T		

Software Specifications		
Network Connection	WAN protocol	PPP, PPPoE, DHCP client
	LAN protocol	ARP, DHCP server, NAT
	4G network access	Auto APN/VPDN, private network Access authentication: CHAP/PAP
	WLAN security	Open system,WPA/WPA2 PSK TKIP/AES encryption
	IP routing	Static routing
	Network diagnosis	Ping,route trace,DNS
Device management	Configuration	Web
	Remote management	Telnet, SSH, AT command,SNMP
	PUSR platform	Remote monitoring,remote upgrade,alarming,base station location,remote access to web pages of the router
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
	Alarm	Email,SMS
	Others	NTP client Timing task

Ordering guide

USR-G806 Ordering Guide		
Model	USR-G806-E	
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-G806-G	
Region	Global	
Frequency	TDD-LTE	B38/B39/B40/B41
	FDD-LTE	B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28
	WCDMA	B1/B2/B4/B5/B6/B8/B19
	GSM	B2/B3/B5/B8
Model	USR-G806-A	
Region	North America(AT&T)	
Frequency	FDD-LTE	B2/B4/B12
	WCDMA	B2/B4/B5
Model	USR-G806-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-G806-EAU	
Region	Europe & Australia	
Frequency	TDD-LTE	B38/B40/B41
	FDD-LTE	B1/B3/B5/B7/B8/B20/B28
	WCDMA/HSPA+	B1/B5/B8
	GSM/EDGE/GPRS	850/900/1800MHz

Model	USR-G806-43	
Region	Part of APAC, please confirm the frequencies	
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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