



Introduction

USR-G806w is the pro version of our all-time bestseller G806 that inherited its' best features, including industrial design, compact size, multiple connection interfaces. It delivers high performance for mission-critical cellular communication in rigorous environments.

Equipped with 4G LTE, Wi-Fi, and three Ethernet ports, this router offers unstoppable connection continuity with a backup through automatic WAN failover. The Wi-Fi is functional in: Access point, Station mode and repeater mode.

USR-G806w is an excellent fit in various IoT and M2M solutions that require easy setup, reliable network, and remote accessibility, such as service robot, inspection robot, unmanned vehicle networking, massage chair networking, AGV car and other industrial application scenarios.

Features

Stable And Reliable

- Industrial design Metal shell, IP30 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.

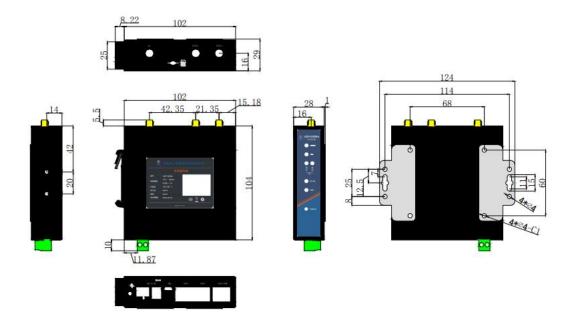
Uninterrupted network access

- Supports 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.
- · Link backup: mutual backup of wired, 4G cellular and WiFi networks
- Equipped with strong Wi-Fi capability,802.11 a/b/g/n,2.4G Wi-Fi,2*2 MIMO, up to 300Mbps,Support AP/STA/repeater mode
- 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 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.
- Wall-mounting and DIN-rail mounting options available, easy to install.
- Supports IPsec VPN, PPTP,L2TP, OPENVPN,GRE etc., ensuring secure data transmission.
- Supports firewall functions including NAT, access control, DDoS defense, IP-MAC binding, etc., protecting the network against external attacks.
- 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 firewall, NAT, DMZ, black and white list of access control
- Support SNMP,VLAN

Dimensions



- Unit: mm.
- Dimensions: 104*102*28.0mm(L*W*H).Power terminal, antenna connector are not included.
- Installation Method: 35mm DIN-rail mounting, Panel mounting.

G806 series ordering guide

USR-G806 ordering guide					
model	USR-G806- <m></m>	USR-G806w- <m></m>	USR-G806s- <m></m>		
Region	-43: China/India	Global	-43: China/India		
<m>></m>	-G: Global		-EAU:EMEA/Thailand		
	-A:North America				
	-E: EMEA/South Africa/Thailand				
	-AU: Latin/Australia/New Zealand				
	-EAU:Europe/Australia/New				
	Zealand				
Wi-Fi	AP	AP/STA/Repeater	АР		
Ethernet port	1WAN/LAN+1LAN	1WAN/LAN+2LAN	1WAN/LAN+1LAN		
Serial port			RS485		
Dimensions (mm)	100.0*94.0*29.0	104.0*102.0.28.0	90.0*84.0*25.0		

Specifications

USR-G806w hardware specification					
		TDD-LTE:B34/38/39/40/41			
	Frequency	FDD-LTE: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/66			
	Antenna	1 x SMA-K			
	SIM card	1 x (3 V & 1.8 V) Standard 4FF SIM			
Ethernet	WAN	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			
	LAN	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			
	PWR	red,always on after powered on			
	WIFI	green,always solid on when WiFi is enabled and working properly			
Indicators		2G led is on after connected to 2G network			
	2/3/4G mode indicator	3G led is on after connected to 3G network			
		Both leds is on after connected to 4G network			
	SIG	Signal strength: 2 LED is solid on,strongest signal			
	Standards & Frequency	IEEE 802.11b/g/n, 2.4GHz, AP/STA/Repeater mode			
Wi-Fi	Data speed	300Mbps			
	Antenna	2 x RP-SMA-K			
	МІМО	2×2			
	Transmission distance	500 meters by line of sight.Actual transmission distance depends on environment of the site.			
	WiFi users	Up to 20 simultaneous connections			
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			

Imput voltage Power Consumption Power				USK-Goudw datastieet		
Consumption Average 260mA/12V		Input voltage	DC 9	9-36V		
Dimensions 104.0*102.0*28.0 (L*W*H, antenna pedestal, terminal block and DIN Rail are not included)			Average 260mA/12V			
Installation		Casing material	Met	al shell,IP30		
Physical Characteristics EMC Pulsed Electric Field IEC61000-4-a, level 3 Surge IEC61000-4-5, level 3		Dimensions	104.0*102.0*28.0 (L*W*H, antenna pedestal, terminal block and DIN Rail are not included)			
Physical Characteristics Pulsed Electric Field IEC61000-44, level 3		Installation	Panel mounting, DIN-Rail mounting			
Characteristics Coperating temperature			Stat	Static IEC61000-4-2, level 3		
Surge ECG 1000-4-5, level 3		EMC	Puls	Pulsed Electric Field IEC61000-4-4, level 3		
temperature Storage temperature Operating humidity Reload Pinhole reset button TBD Debug interface (TTL Level) Others Ground protection Approvals CE, WPC, RCM, ROHS, WEEE WAN protocol PPP, PPPOE, DHCP client LAN protocol APP, DHCP server, NAT. VLAN AG network access WLAN security IP routing Static routing Network diagnosis Ping, route trace, DNS Center anagement Device Remote management PUSR platform PUSR platform PUSR platform PUSR platform Remote monitoring, remote upgrade, alarming, base station location, remote access to web pages of the router Firewall DMX, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control DDNS Remote access the device through domain name PUSR platform DDNS Remote access the device through domain name	Characteristics		Sur	Surge IEC61000-4-5, level 3		
temperature Operating humidity Feload Pinhole reset button TBD Debug interface (TTL Level) Ground protection Approvals CE, WPC, RCM, ROHS, WEEE WAN protocol APP, PPPoE, DHCP client LAN protocol ARP, DHCP server, NAT, VLAN LAN security WLAN security Prouting Static routing Network diagnosis Ping, route trace, DNS PUSR platform PUSR platform Fiewall DMS, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control VPN Supports PPTP, L2TP, GRE, IPSEC VPN (IKEV1), OPENVPN protocols Remote manage (IPSEC) VPN (IKEV1), OPENVPN protocols Remote menue Address the device through domain name			-20°C~+70°C			
Numidity 5%-95% (non-condensing)		_	-40°C ~+125°C (non-condensing)			
TBD Debug interface (TTL Level)			5%~	5%~95% (non-condensing)		
Others Ground protection Screw Approvals CE, WPC, RCM, ROHS, WEEE USR-G806w Software Specifications WAN protocol PP, PPPOE, DHCP client LAN protocol ARP, DHCP server, NAT, VLAN Auto APN/VPDN, private network Access authentication: CHAP/PAP Open system,WPA/WPA2 PSK TKIP/AES encryption IP routing Static routing Network diagnosis Ping,route trace,DNS Device Remote management SSH, AT command,SNMP,SMS management PUSR platform Remote monitoring,remote upgrade,alarming,base station location,remote access to web pages of the router Security Failover backup WiFi WAN, Mobile, Wired options, each of which can be used as an automatic Failover Security Firewall DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control VPN Supports PPTP, L2TP, GRE, IPSEC VPN (IKEV1), OPENVPN protocols		Reload	Pinl	nole reset button		
Protection Approvals CE, WPC, RCM, ROHS, WEEE		TBD	Deb	Debug interface (TTL Level)		
WAN protocol PPP, PPPoE, DHCP client	Others		Screw			
Network Connection PPP, PPPOE, DHCP client LAN protocol ARP, DHCP server, NAT, VLAN Auto APN/VPDN, private network Access authentication: CHAP/PAP Open system,WPA/WPA2 PSK TKIP/AES encryption IP routing Static routing Network diagnosis Ping, route trace,DNS Configuration Web Remote management SSH, AT command,SNMP,SMS PUSR platform Remote monitoring,remote upgrade,alarming,base station location,remote access to web pages of the router Failover backup WiFi WAN, Mobile, Wired options, each of which can be used as an automatic Failover PVN Supports PPTP, L2TP, GRE, IPSEC VPN (IKEV1), OPENVPN protocols Remote monitoring name DDNS Remote access the device through domain name		Approvals	CE, WPC, RCM, ROHS, WEEE			
Network LAN protocol ARP, DHCP server, NAT, VLAN Auto APN/VPDN, private network Auto APN/VPDN, private network Connection WLAN security Open system,WPA/WPA2 PSK TKIP/AES encryption IP routing Static routing Network diagnosis Ping,route trace,DNS Device Remote management SSH, AT command,SNMP,SMS management PUSR platform Remote monitoring,remote upgrade,alarming,base station location,remote access to web pages of the router Security Failover backup WiFi WAN, Mobile, Wired options, each of which can be used as an automatic Failover Security Firewall DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control VPN Supports PPTP, L2TP, GRE, IPSEC VPN (IKEv1), OPENVPN protocols				USR-G806w Software Specifications		
Network 4G network access Auto APN/VPDN, private network Connection WLAN security Access authentication: CHAP/PAP TKIP/AES encryption IP routing Static routing Network diagnosis Ping,route trace,DNS Device Remote management SSH, AT command,SNMP,SMS management PuSR platform Remote monitoring,remote upgrade,alarming,base station location,remote access to web pages of the router Security Failover backup WiFi WAN, Mobile, Wired options, each of which can be used as an automatic Failover Security Firewall DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control VPN Supports PPTP, L2TP, GRE, IPSEC VPN (IKEV1), OPENVPN protocols		WAN protocol		PPP, PPPoE, DHCP client		
Network Connection HAG network access Access authentication: CHAP/PAP Open system,WPA/WPA2 PSK TKIP/AES encryption IP routing Network diagnosis Ping,route trace,DNS Configuration Remote management PUSR platform Failover backup WiFi WAN, Mobile, Wired options, each of which can be used as an automatic Failover Firewall DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control VPN Supports PPTP, L2TP, GRE, IPSEC VPN (IKEV1), OPENVPN protocols Remote member of the device through domain name Remote device through domain name		LAN protocol		ARP, DHCP server, NAT, VLAN		
Network Access authentication: CHAP/PAP Connection WLAN security Open system,WPA/WPA2 PSK TKIP/AES encryption TKIP/AES encryption IP routing Static routing Network diagnosis Ping,route trace,DNS Configuration Web Remote management SSH, AT command,SNMP,SMS Remote monitoring,remote upgrade,alarming,base station location,remote access to web pages of the router Security Failover backup WiFi WAN, Mobile, Wired options, each of which can be used as an automatic Failover Security Firewall DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control VPN Supports PPTP, L2TP, GRE, IPSEC VPN (IKEv1), OPENVPN protocols		4G network access	Auto APN/VPDN, private network			
WLAN security TKIP/AES encryption IP routing Static routing Network diagnosis Ping,route trace,DNS Configuration Web Remote management PUSR platform PUSR platform Failover backup WiFi WAN, Mobile, Wired options, each of which can be used as an automatic Failover Firewall DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control VPN Supports PPTP, L2TP, GRE, IPSEC VPN (IKEV1), OPENVPN protocols Remote device through domain name	Network			Access authentication: CHAP/PAP		
TKIP/AES encryption IP routing Static routing Network diagnosis Ping,route trace,DNS Configuration Web Remote management SSH, AT command,SNMP,SMS PUSR platform Remote monitoring,remote upgrade,alarming,base station location,remote access to web pages of the router Failover backup WiFi WAN, Mobile, Wired options, each of which can be used as an automatic Failover Firewall DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control VPN Supports PPTP, L2TP, GRE, IPSEC VPN (IKEv1), OPENVPN protocols Remote access the device through domain name	Connection	NAME AND GO GOVERNO	Open system,WPA/WPA2 PSK			
Network diagnosis Ping,route trace,DNS Configuration Web Remote management SSH, AT command,SNMP,SMS Remote monitoring,remote upgrade,alarming,base station location,remote access to web pages of the router Failover backup WiFi WAN, Mobile, Wired options, each of which can be used as an automatic Failover Firewall DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control VPN Supports PPTP, L2TP, GRE, IPSEC VPN (IKEV1), OPENVPN protocols Remote access the device through domain name		WLAN Security		TKIP/AES encryption		
Device Remote management SSH, AT command, SNMP, SMS Remote monitoring, remote upgrade, alarming, base station location, remote access to web pages of the router Failover backup WiFi WAN, Mobile, Wired options, each of which can be used as an automatic Failover Firewall DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control VPN Supports PPTP, L2TP, GRE, IPSEC VPN (IKEv1), OPENVPN protocols Remote access the device through domain name		IP routing		Static routing		
Device management SSH, AT command, SNMP, SMS Remote monitoring, remote upgrade, alarming, base station location, remote access to web pages of the router Failover backup WiFi WAN, Mobile, Wired options, each of which can be used as an automatic Failover Firewall DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control VPN Supports PPTP, L2TP, GRE, IPSEC VPN (IKEv1), OPENVPN protocols Remote access the device through domain name		Network diagnosis		Ping,route trace,DNS		
Remote monitoring,remote upgrade,alarming,base station location,remote access to web pages of the router Failover backup WiFi WAN, Mobile, Wired options, each of which can be used as an automatic Failover Firewall DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control VPN Supports PPTP, L2TP, GRE, IPSEC VPN (IKEv1), OPENVPN protocols DDNS Remote access the device through domain name		Configuration		Web		
PUSR platform of the router Failover backup WiFi WAN, Mobile, Wired options, each of which can be used as an automatic Failover Firewall DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control VPN Supports PPTP, L2TP, GRE, IPSEC VPN (IKEv1), OPENVPN protocols DDNS Remote access the device through domain name		Remote management		SSH, AT command,SNMP,SMS		
Security Firewall DMZ, anti-DoS, Filtering (IP/Domain name/MAC address), Port Mapping, Access Control VPN Supports PPTP, L2TP, GRE, IPSEC VPN (IKEv1), OPENVPN protocols DDNS Remote access the device through domain name		PUSR platform				
VPN Supports PPTP, L2TP, GRE, IPSEC VPN (IKEv1), OPENVPN protocols DDNS Remote access the device through domain name	Security	Failover backup		WiFi WAN, Mobile, Wired options, each of which can be used as an automatic Failover		
DDNS Remote access the device through domain name		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		Alarm		Email,SMS		

	NTP client
Others	Timing task

Purchase and Support

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