USR-G800 V2 specification

Enterprise 4G industrial router

5 Ethernet ports cellular wireless router USR-G800V2, integrates 4G LTE, WiFi, serial to Ethernet and VPN technologies, provides devices with convenient, reliable, secure network and high speed access to data.

The product is suitable for unattended devices and site networking. It has embedded hardware watchdog and multi-layer link detection mechanism, wired and cellular network double network backup mechanism to ensure reliable and stable network communication. Users can also connect it to our remote management platform to achieve systematic and efficient device management.

G800V2 can be used in a variety of industrial and commercial IoT applications, providing a good balance between cost and performance. It is suitable for large-scale distributed industrial applications, such as:

✧ Intelligent Terminal Industry: Intelligent express cabinet, charging pile, battery cabinet, ATM, ticket machine, vending machine.
✧ Smart city: Intelligent lighting, intelligent transportation, smart grid.
✧ Security industry: Intelligent access control, security facilities, tower monitoring.
✧ Other industries: Electrical power engineering, hydraulic engineering, oil field, environment protection, factory networking transformation and so on.

Key Features

■ Stable And Reliable

- Metal housing, protection class IP30. Ethernet port supports 1.5KV isolation transformer protection.

- Wide voltage input, with reverse polarity protection.

- Multiple protections against electronic static discharge, surges, and electrical fast transient burst.

- Hardware watchdog, multi-layer link detection mechanism make it self-recovery from unexpected failure and guarantee system stability.

■ Flexible Networking

- Provides a 4G cellular network, backward compatible with 3G/2G network standard. Supports automatic network inspection, supports APN/VPDN private network card.

- Supports 2.4GHz band Wi-Fi, users can choose the wired/WIFI networking mode flexibly.

- Supports 1*WAN interface, 4*LAN interfaces: 10/100Mbps, auto MDI/MDIX.

- Supports multiple VPN protocols such as PPTP、L2TP、IPSec、OpenVPN、GRE and cryptography.

■ Rich functions

- Supports remote firmware upgrade, remote equipment monitoring, easy to realize remote operation and maintenance of equipment.

- Supports WLAN, IEEE802.11b/g/n, 2.4GHz AP mode.

- Supports firewall functions including access control, IP-MAC binding, port forwarding, DMZ etc., protecting the network against external attacks.

- Supports DDNS, PPPoE, DHCP and static IP.

- Supports 4G network link detection mechanism, automatic redial and recovery.

- Supports multi-network online at the same time, intelligent network switching and backup to effectively ensure the network stability.

- Supports RS232 serial to network transparent transmission.

- Supports ssh、telnet、Web management.

- Supports panel mounting.

Dimensions

USR-G808 Dimensions

- Unit: mm.

- Metal housing，fixed holes on both sides，compatible with panel mounting.

- Dimensions：216mm*116.55mm*35mm（L*W*H, excluding terminals and antenna base）

Specifications

Hardware Parameters		
Cellular	Antenna interface	2*SMA female (Outer screw inner hole) Note: G800-43 V2 has 1*SMA female connectors(Outer screw inner hole)
	SIM card	1*(3V/1.8V) standard 2FF SIM card, drawer-type SIM card slot
Ethernet	1*WAN interface: 10/100Mbps, IEEE802.3, auto MDI/MDIX, 1.5kV isolation transformer protection	
	4*LAN interfaces: 10/100Mbps, IEEE802.3, auto MDI/MDIX, 1.5kV isolation transformer protection	
Indicators	LED	Power: Always on after powered on Work: Blinking when system working properly WLAN: Always on when Wi-Fi is enabled and working properly WAN: Always on when cable is connected, blinking when data is transmitting and receiving. LAN1-4: Always on when cable is connected, blinking when data is transmitting and receiving. 2/3/4G mode indicator: Red led is on after connected to 2G network Green led is on after connected to 3G network Both on after connected to 4G network Signal strength: 4 solid bars,strongest signal
Wi-Fi	Standard	IEEE802.11b/g/n,2.4GHz, AP mode
	Data speed	IEEE802.11b/g, maximum 54Mbps. IEEE802.11n, maximum 150Mbps.
	AUTH type	OPEN, WPA-PSK, WPA2-PSK
	Encryption algorithm	TKIP,AES
	Antenna	2*SMA female (Outer screw inner hole)
Power Supply	Power adaptor	DC 12V/1A
	Connector	DC Power Jack Barrel Type Female 5.5*2.1mm Round socket or 2 PIN industrial terminal block,anti-reverse connection.
	Input voltage	DC 9-36V
	Working power	Average 338mA/12V
Serial Interface	RS232	Standard DB9 interface
	Baud rate	4800、9600、19200、38400、57600、115200
	Data bit/stop bit/parity	5、6、7、8 / 1、2 / NONE、ODD、EVEN
Physical Characteristics	Housing	Metal, IP30
	Dimensions	216mm*116.55mm*35mm（L*W*H, excluding terminals and antenna base）

	Installation	Panel mounting
	EMC	ESD IEC 61000-4-2 Level 3
		EFT IEC 61000-4-4 Level 3
		Surge IEC 61000-4-5 Level 3
	Operating temperature	-20℃～+70℃
	Storage temperature	-40℃～+125℃
	Operating humidity	5%～95%RH（non-condensing）
	Storage humidity	1%～95%RH（non-condensing）
Others	Reload button	Pinhole reset button
	Ground screw	*1
	USB interface	Reserved interface
Certificates	CE, CCC, ROHS, ERP	

Software Parameters		
Network Connection	Ethernet port	WAN: DHCP, PPPoE, static IP LAN: ARP, DHCP Server, NAT
	4G network	Supports APN/VPDN private network Supports link detection mechanism, ensure the stability of data communication Supports network priority setting Supports SIM card information display
	Wi-Fi	2.4G Wi-Fi, AP mode
	Static routing	Supports routing table addition and viewing, easy implementation of path selection, sub-net interconnection and other applications
	Network diagnosis	Ping, route trace, DNS
	Static IP	Supports IP and MAC binding to assign fixed IP address to specified subnet device
Device Management	Local management	Web
	Remote management	AT Commands, Telnet, FTP
	Cloud management	Remote monitoring, firmware upgrading, remote configuration
Security	Failover backup	Multi-network online at the same time, intelligent network switching and backup function
	Firewall	Port forwarding, DMZ, filtering, black/white list
	Data Security	Supports PPTP, L2TP, GRE, IPSEC, OPENVPN protocols, multiple

		authentication and encryption ensure data security
Serial Modem	Software configuration	Serial baud rate, data bit, stop bit and parity Supports heartbeat packet, registry packet Supports one socket connection: TCP Client/TCP Server/UDP
Services	DDNS	Supports domain name and device binding to access the device via domain name
	Others	Supports local and remote firmware upgrade Supports to export and import configuration files Supports NTP client function to synchronize network time Support to modify login password to ensure login security Supports timing restart, one button to restore factory settings, improve the device operation stability

Ordering guide

USR-G800 V2 Ordering Guide		
Model	**USR-G800-E V2**	
Region	EMEA/South Africa/Thailand/India	
Frequency Bands	TDD-LTE	B38/B40/B41
	FDD-LTE	B1/B3/B5/B7/B8/B20
	WCDMA	B1/B5/B8
	GSM/GPRS/EDGE	B3/B8
Transmission Speed	TDD-LTE	Max　130Mbps(DL)/30Mbps (UL)
	FDD-LTE	Max　150Mbps(DL)/50Mbps (UL)
	DC-HSPA+	Max　42Mbps(DL)/5.76Mbps(UL)
	WCDMA	Max　384Kbps(DL)/384Kbps(UL)
	EDGE	Max　296 Kbps(DL) /236.8 Kbps(UL)
	GPRS	Max　107Kbps(DL) /85.6 Kbps(UL)
Model	**USR-G800-A V2**	
Region	North America	
Frequency Bands	FDD-LTE	B2/B4/B12
	WCDMA	B2/B4/B5
Transmission Speed	FDD-LTE	Max　150Mbps(DL)/50Mbps (UL)
	DC-HSPA+	Max　42Mbps(DL)/5.76Mbps (UL)
	WCDMA	Max　384Kbps(DL)/384Kbps (UL)

Model	USR-G800-AU V2	
Region	Latin America/Australia/New Zealand	
Frequency Bands	TDD-LTE	B40
	FDD-LTE	B1/B2/B3/B4/B5/B7/B8/B28
	WCDMA	B1/B2/B5/B8
	GSM/EDGE	B2/B3/B5/B8
Transmission Speed	TDD-LTE	Max 130Mbps(DL)/30Mbps (UL)
	FDD-LTE	Max 150Mbps(DL)/50Mbps (UL)
	DC-HSPA+	Max 42Mbps(DL)/5.76Mbps(UL)
	WCDMA	Max 42Mbps(DL)/5.76Mbps(UL)
	TD-SCDMA	Max 384Kbps(DL)/384Kbps(UL)
	EDGE	Max 296 Kbps(DL) /236.8 Kbps(UL)
	GPRS	Max 107Kbps(DL) /85.6 Kbps(UL)
Model	USR-G800-43 V2	
Region	China/South East Asia	
Frequency Bands	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
Transmission Speed	TDD-LTE	Max 130Mbps(DL)/30.5Mbps (UL)
	FDD-LTE	Max 150Mbps(DL)/50Mbps (UL)
	HSPA/HSPA+	Max 42Mbps(DL)/5.76Mbps(UL)
	TD-SCDMA	Max 4.2Mbps(DL)/2.2Mbps(UL)
	EVDO	Max 3.1Mbps(DL)/1.8Mbps(UL)
	EDGE	Max 296 Kbps(DL) /236.8 Kbps(UL)

Purchase and Support

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