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Communication Expert
of Industrial IOT

Dual SIM 4G Router

USR-G805s-42, USR-G805s-G



Introduction

USR-G805s is the latest dual-card single-standby router lunched by PUSR. The main control and 4G modem of this product adopt Qualcomm solution, metal shell, with 5 network ports, support dual WAN ports, SMS, VLAN and rich VPN functions. The router implements a variety of network backup functions: SIM1-SIM2, WAN-cellular, and WiFi-cellular, maximizing the stability of user networking, rich VPN functions can ensure the safe transmission of data, using the router, users can experience high compatibility and high stability.

PUSR's industrial routers are designed to handle harsh environments and withstand a wide temperature range. USR-G805s are rugged and provide multiple and reliable Internet connectivity for various IoT applications. This router can be applied to these scenarios: ATM machine,chaging pile, electric tower, smart retail, remote management of PLC and etc..

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Product Features

Stable and reliable

- ◆ Industrial grade design for harsh environments, IP30 mental housing.
- ◆ Qualcomm processor, to ensure powerful performance.
- ◆ Support wall mounting and desktop placement.
- ◆ Wide input voltage range 9~36VDC, DC socket connector.
- ◆ Multiple EMC protection level 2: Surge, EFT and ESD protection
- ◆ Built-in hardware watchdog, fault self-detection and self-repair, to ensure system stability.

Flexible networking

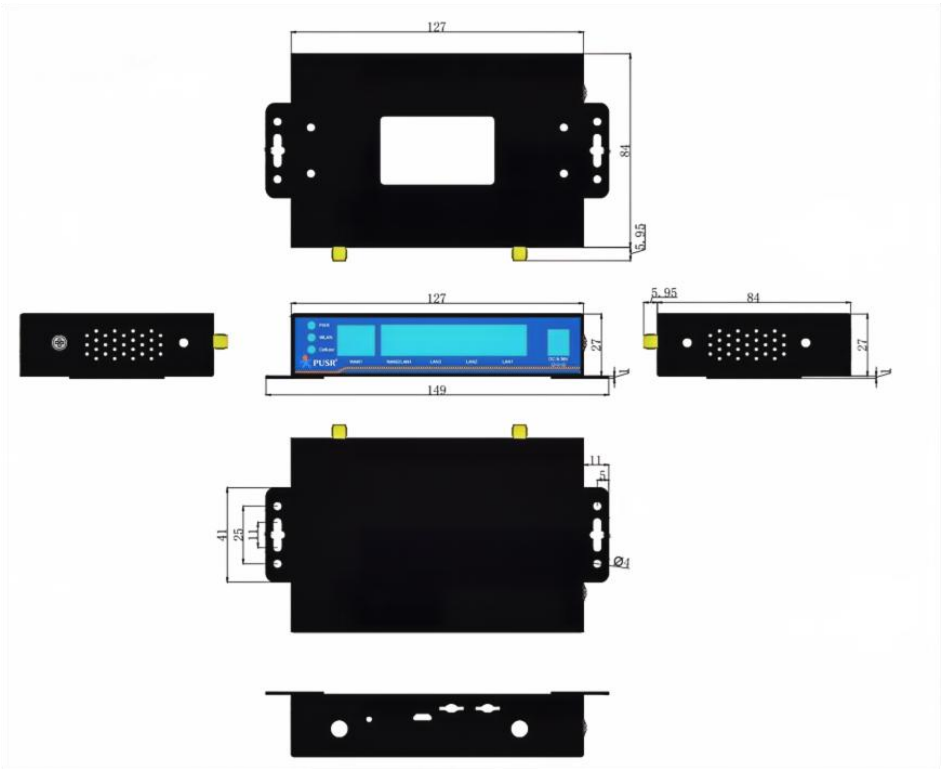
- ◆ Dual sim cards, single standby.
- ◆ Supports global mainstream 4G band, can work in global area.
- ◆ Equipped with 5 Ethernet ports:1*WAN, 1*WAN/LAN (Configurable), 3*LAN.
- ◆ Supports 2.4G Wi-Fi, AP/STA/bridge mode, flexible networking.

Powerful function

- ◆ Supports 4G APN/VPDN sim cards.
- ◆ Built-in ICMP keep-alive detection, heartbeat packet detection and other functions to ensure the stable operation of the device.
- ◆ Supports firewall, NAT, DMZ, port forwarding, access restriction, etc. to ensure data security.
- ◆ Cooperating with PUSR service, it can realize centralized management of remote equipment and improve operation and maintenance efficiency.
- ◆ Supports mainstream VPN: PPTP, L2TP, Ipsec, GRE and enhanced OpenVPN.
- ◆ Support SMS, can be remote management via SMS.

Dimensions

Unit: mm



Specifications

USR-G805 specifications		
Cellular Interface	Frequency	4G LTE LTE-FDD: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/66; LTE-TDD: B34/38/39/40/41; WCDMA: B1/2/4/5/6/8/19; GSM/EDGE:B2/3/5/8;
	Maximum Transmission Data Rate	LTE-FDD (Mbps) :150 (DL)/50 (UL) LTE-TDD (Mbps):130 (DL)/30 (UL)
	Antennas	1 × SMA-K Connectors (Center PIN: SMA Female)
	SIM Slot	2 x (3 V/1.8 V) Nano-SIM(4FF) Push-push type slot
Ethernet Interface	WAN	2 x WAN ports, RJ45, 10/100 Mbps, the WAN2 port can be configure as LAN port, supports auto MDI/MDIX crossover, Ethernet Isolation 1.5 KV
	LAN	3 x RJ45 port, 10/100 Mbps, supports auto MDI/MDIX crossover, Ethernet Isolation 1.5 KV
Indicators	PWR	red, always on after powered on
	WLAN	green, always solid on when WiFi is enabled and working properly
	NET	ON: Signal strength 25-31 (signal strong) Blinking: Signal strength 15-24 (signal strength is basically normal, and equipment maybe disconnect with the base station) OFF: Signal strength 1-14 (Signal strength is weak, please check antenna and the signal strength of current location)
Wi-Fi Interface	Antennas	1 × SMA-K Connectors (Center PIN: SMA Male)
	Standards	IEEE 802.11b/g/n (2.4GHz)
	Modes	AP/AP+STA/AP+WDS repeater
	Data speed	Up to 150 Mbps
	Security	Wi-Fi security with mixec-psk, psk+ccmp, psk2, psk2+tkip
	Transmission distance	150 meters by line of sight. Actual transmission distance depends on environment of the site.
Power Supply	Adapter	DC 12V/1A
	Connector	DC Power Jack Barrel Type Female 5.5*2.1mm Round socket
	Input voltage range	DC9-36V
	Power consumption	Max 700mA@12C Average 376mA@12V
Physical Characteristics	Casing material	Metal shell, ingress protection IP30
	Dimensions	127.0*84.0*27.0mm (L*W*H, antenna pedestal, terminal block and DIN Rail are not included)
	Installation	Desktop, wall 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℃ (Non-condensing)
	Relative Humidity 0	5%~95% (Non-condensing)
Others	Reload button	1 × Reload
	TBD	Debug interface (TTL Level)
	Ground protection	Screw
	Built-in	Watchdog

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Software	Network Protocols	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, DNS, ARP, NTP, Telnet, SSH, DDNS, etc.
	VPN	LT2P, PPTP, OpenVPN, Ipsec, GRE
	Security	Access Control, DMZ, Port Forwarding, SYN-Flood Protection, Filtering (IP& MAC & Domain)
	Management	Web UI, PUSR cloud
	Reliability	WAN Failover, Dual SIM Backup
Certificate	In progress	CE, *FCC, *WEEE, RoHS, *RCM, *WPC

Ordering Guide

Model	USR-G805s-G	USR-G805s-42
Frequency	LTE-FDD: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/66; LTE-TDD: B34/38/39/40/41; WCDMA: B1/2/4/5/6/8/19; GSM/EDGE:B2/3/5/8;	LTE FDD: Band1/3/5/8; LTE TDD: Band34/38/39/40/41; WCDMA: Band1/8; GSM/EDGE:B3/8;
Region	Global	China, India

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