

Dual SIM 4G Router

USR-G805s-42, USR-G805s-G

User Manual



V2.0

Be Honest & Do Best

Your Trustworthy Smart Industrial IoT Partner

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1. Introduction

1.1. Features

Stable and reliable

- ◆Industrial grade design for harsh environments, IP30 mental housing.
- ♦Qualcomm processor, to ensure powerful performance.
- ◆Support wall mounting and flat surface placement.
- ♦Wide input voltage range 9~36VDC, reverse polarity protection.
- ◆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 (Switchable), 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.

1.2. Parameters table

Table 1. Parameters of USR-G805

USR-G805 specifications		
	Frequency	4G LTE
Cellular		LTE-FDD: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/66;
Interface		LTE-TDD: B34/38/39/40/41;
		WCDMA: B1/2/4/5/6/8/19;
		GSM/EDGE:B2/3/5/8;



	Maximum Transmission	LTE-FDD (Mbps) :150 (DL)/50 (UL)
	Data Rate	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
	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)
Indicators		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
Derview Crimeliu	Ad+	
Power Supply	Adapter	
		DC Power Jack Barrel Type Female 5.5^2. Imm Round socket
	Input voltage range	
	Power consumption	Max /00mA@12C
Dhusiaal	C i i - 1	Average 376mA@12v
Physical		Metal snell, ingress protection IP30
Characteristics	Dimensions	included)
	Installation	Deskten wall mounting
	LINC	Pulsed Electric Field IEC61000-4-4 Jevel 2
	Operating Temperature	-20°C ~ +70°C
	Storage Temperature	-40°C ~ +125°C (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
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	

1.3. Indicator introduction

USR-G805s provides 3 indicators in total, the specific description is as follows.

Table 2. LED i	indicator
----------------	-----------

Name	Description		
	On: power supply is normal.		
PWR(Red)	Off: No power supply or abnormal power supply.		
WLAN(Green)	green, always solid on when WiFi is enabled and working properly		
Cellular(Green)	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)		

1.4. Dimension

>Sheet metal housing, wall mounting supported.

>127.0*84.0*27.0mm (L*W*H, accessories not included)





Figure 1. Dimension of USR-G805s

2. Get Started

2.1. Login router

Power on the G805s router, connect PC to USR-G805s via LAN port or via Wi-Fi, users can login router via Chrome or the other browser. The default network parameters are shown in the following table:

Parameter	Default value
SSID	USR-G805s-xxxx
LAN IP	192.168.1.1
Username	admin
Password	admin
Wi-Fi password	www.pusr.com

Table 3.	Default network parameters
----------	----------------------------

Open the browser, enter 192.168.1.1 in the URL blank, and press Enter, it will navigate to the following webpage.

After entering the login password, clicking login, the web page will show configuration page of USR-G805s.





Figure 2. Login webpage

2.2. Brief introduction of the webpage

There are several tabs on the left side of the webpage, users can set parameters of USR-G805s on the tab pages.

>Status: Mainly display device name, firmware version, running status, and routes etc.

Service: Mainly some additional functions, including dynamic DNS, GPS (GPS version), PUSR cloud.

>VPN: Configuration of VPN, such as PPTP, L2TP and OpenVPN.

>Network: In this interface, there are many categories related to network connection. Users can set parameters such as WAN port, LAN port and cellular network.

Firewall: User can set firewall rule on this page such as inbound and outbound rules, port forwarding, blacklist, whitelist, and other information.

>DTU: Configure parameters related to DTU such as serial port and SOCKET.

System: Mainly some basic functions, including restart, restore factory settings, firmware upgrade, log checking, etc.



Communication Expert of Indus	na lor	Be Ho	AUTO REFRESH ON English 492
USR-G805	Status		
✓ Status	System		
Overview	Hostname	USR-G805	
Routes	Firmware Version	V1.0.00-EN	
Services	SN	01601223020300068651	
> Network	IMEI	869312066104521	
> VPN	Local Time	Thu Jun 6 07:15:49 2024	
> Firewall	Uptime	2h 22m 55s	
> System	Load Average	0.35, 0.50, 0.50	
> Logout			
	Memory		1
	Total Available	85540 kB / 125068 kB (68%)	
	Free	52836 kB / 125068 kB (42%)	
	Cached	24940 kB / 125068 kB (19%)	
	Buffered	7764 kB / 125068 kB (6%)	
	Network		1
	IPv4 WAN Status	? Not connected	
	IPv6 WAN Status	B	-

Figure 3. Status webpage

3. Status & System

3.1. Status

Users can get the basic information of USR-G805s, such as firmware version, running time, IPv4 WAN status, routes list, and information about DHCP client.

3.2. System (Hostname)

In this page, users can modify the hostname, the default is USR-G805s. After changing, click "Apply", the changed value will take effect.



Communication Expert	of Industrial IOT Be Honest, Do Best!
USR-G805	System
> Status	Here you can configure the basic aspects of your device like its hostname or the timezone.
> Services	System Properties
> Network	Canada Sattingan
> VPN	
> Firewall	Hostname USR-G805
∽ System	
System	
Administration	Appiy Save
Reboot Timer	
NTP	
	JiNan Usr IOT Technology Limited http://www.pusr.com/

Figure 4. Hostname page

3.3. Administration password

This password is used when users login the built-in webpage.

The default login password is root. Users can modify it in this page for secure login.

Communication Expert o	f Industrial IOT	Be Honest, Do Best! English #
USR-G805	Router Password	
 > Status > Services > Network > VPN 	Changes the administrator password for accessing the device Configuration Password Password Password support: numbers, letters and symbols.no more than 16	
 Firewall System Administration Reboot Timer NTP 	Confirmation	
	JiNan Usr IOT Technology Limited http://www.pusr.com/	

Figure 5. Administration password



3.4. Reboot timer (Timed restart function)

Users can realize the periodic restart of the router through parameter setting. It can be restarted on a daily, weekly, or monthly basis. Timed restart can regularly clear the operation cache to improve the stability of the router operation.

By default, this function is enabled and the router restarts every Sunday between 4 and 5 AM.

Communication Expert of I	ndustrial IOT				Be Honest,	Do Best!
USR-G805	Parameter Configuratio	on				A
> Status	Enable					
> Services	Periodic Reboot	Daily	~			
> Network	Random Time	Enable	~			
> VPN		Randomly gen required.	erate the restart time (ho	ours and minutes) to avoid the dev	vice online at the same time.If	disabled, custom time is
> Firewall	Random Range(Start)	4:00	~			
System	Random Range(End)	5:00	~			
Administration	Reboot Time	4:53				
Reboot Timer						
NTP						·
	JiNan L	Isr IOT Technol	ogy Limited ht	tp://www.pusr.com/		

Figure 6. Timed restart function

3.5. NTP service

In the time parameter item, it can achieve the function of synchronizing the browser time and the time zone can be set as needed.

In Time Synchronization item, the router can be set to work at NTP client or NTP server. USR-G805s provides 4 configurable NTP server options on webpage.



Communication Expert of Industry	Be H	DNEST, DO BEST!
USR-G805	NTP The Time Synchronization section is used to configure general router time settions, like selection, the local time zone, synchronizion, the time and NTP.	
StatusServices	Time Parameter	
> Network VPN	Current System Time 2024-06-06 07:25:31 Thu Sync with browser	
Firewall System		
Administration Reboot Timer	Time Synchronization	•
NTP Http Port	NTP Server	
Syslog Backup/Upgrade	europe.pool.ntp.org 21 au.pool.ntp.org 21 us.pool.ntp.org 21	
Reboot > Logout		
	Apply Save	

Figure 7. NTP Settings

3.6. HTTP port

The port of logging in the webpage, default is 80, users can modify it in this page.

Communication Expert of Industr	Be Hon	est, Do Best! English∣#⊄@A
USR-G805 Status Services Network VPN Firewall	HTTP Port Here you can configure the HTTP port number, effective immediately Web server Http Port 80 © Do not set the port in use	
System System Administration Reboot Timer NTP Http Port Syslog Backup/Upgrade Reboot > Logout	Telnet Access Telnet offers Telnet network shell access. Telnet Instance Enable Port 2233 Apply Apply Apply Comparison of the second se	

Figure 8. HTTP port

3.7. System log

≻Local log

Users can view the log information and download the log information in this page.

Kernel log level: Debug, Info, Notice, Warning, Error, Critical, Alert and Emergency.



Communication Expert of Indust	rial lot	est, Do Best! English #X
USR-G805	System Log	Î
> Status > Services	Here you can view system logs, including application, kernel, and VPN logs.Remote logs based on UDP protocol can also be configured.	
> Network	Local log Remote log	
> Firewall	kernel log level Info v	
System	Application log level Into v Log Kernel v View Empty	
Reboot Timer	Jun 6 07:26:09 (none) daemon.notice netifd: wwan0 (20852): udhcpc: sending discover Jun 6 07:26:12 (none) daemon.notice netifd: wwan0 (20852): udhcpc: sending discover Jun 6 07:26:36 (none) daemon.warm dnsmasq-dhcp[3067]: DHCP packet received on ath1 which has no address Jun 6 07:27:08 (none) kern.info kernel: [9253.422744] ubb 1-1: USB disconnect, device number 80	
Http Port Syslog	Jun 6 07:27:08 (none) kern.info kernel: [9253.430432] ddc_ether 1-11:10 eth2: unregister 'ddc_ether' usb-lb00000.usb-l, CDC Ethernet Device Jun 6 07:27:08 (none) kern.info kernel: [9253.44582] odjconi ttyUSB0: GSM wodem (1-pot) converter now disconneted for MtyUSB0 Jun 6 07:27:08 (none) kern.info kernel: [9253.458212] option 1-1:12:4 divice disconneted for MtyUSB0 Jun 6 07:27:08 (none) kern.info kernel: [9253.458212] option 1-1:12:5 Mindem (1-pot) converter now disconneted for Jun 6 07:27:08 (none) kern.info kernel: [9253.458236] option 1:10:01:10:01:10:01:01:01:01:01:01:01:01	
Backup/Upgrade Reboot	Jun 6 07:27:08 (none) kern.info kernel: [9253:49722] option 11:11:35 (evice disconnected Jun 6 07:27:08 (none) kern.info kernel: [9253:49722] option 11:11:45 (evice disconnected Jun 6 07:27:08 (none) kern.info kernel: [9253:487124] option 11:11:5: device disconnected Jun 6 07:27:08 (none) kern.info kernel: [9253:487148] option 11:11:5: device disconnected	
> Logout	Jun 6 07:27:08 (none) kern.info kernel: [9253.500508] option 11:15:6: device disconnected from thyUSB4 Jun 6 07:27:08 (none) kern.info kernel: [9253.500503 option 1:11:6: device disconnected Jun 6 07:27:08 (none) daemon.notice netific: Interface wan.4g is disabled Jun 6 07:27:08 (none) kern.info kernel: [9254.93007] usb 1-1: new high-speed USB device number 11 using ehd-ath79 Jun 6 07:27:26 (none) kern.info kernel: [9271.25433] obt 1-1: new high-speed USB device number 12 using ehd-ath79 Jun 6 07:27:26 (none) kern.info kernel: [9271.25433] obt 1: new high-speed USB device number 12 using ehd-ath79 Jun 6 07:27:26 (none) kern.info kernel: [9272.126333] obt 1: new high-speed USB device number 12 using ehd-ath79 Jun 6 07:27:26 (none) kern.info kernel: [9272.126333] obt 1: new high-speed USB device number 12 using ehd-ath79 Jun 6 07:27:26 (none) kern.info kernel: [9272.126333] obt 1: new high-speed USB device number 12 using ehd-ath79 Jun 6 07:27:26 (none) kern.info kernel: [9272.126333] obt 1: new high-speed USB device number 12 using ehd-ath79 Jun 6 07:27:26 (none) kern.info kernel: [9272.126333] obt 1: new high-speed USB device number 12 using ehd-ath79 Jun 6 07:27:26 (none) kern.info kernel: [9272.126347] option 1:11:10 ehd2: register 'cdc_ether' at usb-1b00000.usb-1, CDC Ethernet Device, Jun 6 07:27:26 (none) kern.info kernel: [9272.126347] option 1:11:10 ehd2: register 'cdc_ether' at usb-1b00000.usb-1, CDC Ethernet Device, Jun 6 07:27:26 (none) kern.info kernel: [9272.126347] option 1:11:10 ehd2: register 'cdc_ether' at usb-1b00000.usb-1, CDC Ethernet Device, Jun 6 07:27:26 (none) kern.info kernel: [9272.126347] option 1:11:10 ehd2: register 'cdc_ether' at usb-1b00000.usb-1, CDC Ethernet Jung Jun 6 07:27:26 (none) kern.info kernel: [9272.126347] option 1:11:10 ehd2: register 'cdc_ether' at usb-1b00000 usb-1, CDC Ethernet Jung Jun 6 07:27:26 (none) kern.info kernel: [9272.127147] option 1:11:10 ehd2: register 'cdc_ether' at usb-1b000000.usb-1, CDC Ethernet Jung Jun 6 07:27:26 (none) kern.info kernel: [9272.1271	

Application log level: Debug, Info, Notice, Warning, Error, Critical, Alert and Emergency.



≻Remote log

The remote service IP is 0.0.0.0, it means the remote log function is disabled. Users can change the remote service IP and port.

Remote log is based on UDP protocol. The following picture shows how to receive the remote log.

Communication Expert of In	Industrial TOT	, Do Best!
USR-G816 Status Services Network VPN Firewall DTU System Administration Reboot Timer NTP Http Port Syslog Backup/Upgrade Reboot Logout	System Log Nutwork Accidence Tere you can view system logs, including application, ternet, and VPN logs. Image: Configuration Image: Con	
	JiNan Usr IOT Technology Limited http://www.pusr.com/	

Figure 10. Remote system log



3.8. Backup/Upgrade

Download backup: Click "Generate archive" to download a tar archive of the current configuration files.

Restore backup: Click "Browse" to select the backup archive file (Downloaded backup file), and then upload

the backup file.

Reset to defaults: Click this button, the USR-G805s will restore to factory default settings.

USR IOT Communication Expert of Indust	aria lot	st, Do Best!
USR-G805	Backup / Flash Firmware	
> Status > Services > Network > VPN > Firewall	Backup / Restore Click "Generate archive" to download a tar archive of the current configuration files. To reset the firmware to its initial state, click "Perform reset". Download backup: Image: Constant archive Reset to defaults: Perform	
System Administration Reboot Timer	io restore compuration mes, you can upload a previously generated backup archive here. Restore backup: Please select file Cupload archive	
NTP Http Port Syslog Backup/Upgrade Reboot > Logout	Flash new firmware image Upload a proper image here to replace the running firmware. Check "Keep settings" to retain the current configuration. Keep settings: Image: Please select file Browse Flash image	

Figure 11. Backup and firmware upgrade

3.9. Reboot

ial IOT	Be Hon	est,	Do Be Engli	•
6805	System			
	Reboots the operating system of your device			
	Reboot			
	Perform reboot			
h				
m				
nistration				
ot Timer				
Port				
9				
ip/Upgrade				
ot				
ıt				





4. Network introduction

4.1. WAN interface

For USR-G805s device, it supports multiple WAN interface: 4G connectivity, STA connectivity and wired WAN connectivity.

4G connectivity: this router support connect to base station both in IPv6 and IPv4, in the following picture, it's WAN6_4G(IPv6) and WAN_4G(IPv4).

Wired WAN connectivity: USR-G805s comes with two WAN ports, of which WAN2 is configurable, the factory default is LAN4, and can be configured as WAN2. WAN_WIRED is for WAN1 port, and WAN2_WIR is for WAN2 port.

STA connectivity: This router connects to the upper router to get network connectivity, it's WWAN0 interface.

In factory default, USR-G805s enables 3 WAN interface: WAN_WIRED, WAN_4G, WAN6_4G.

USR IOT Communication Expert of Indust	rial IOT		Be Ho	nest, Do Best! AUTO REFRESH ON English 中文
USR-G805	WAN			
> Status	WAN Overview			l i i i i i i i i i i i i i i i i i i i
> Services	Network	Status	Actions	ST S
✓ Network WAN	WAN2_WIR	Uptime: 0h 0m 0s MAC-Address: F470:00:6F:A3:6D RX: 0.00 B (0 Pkts.) TX: 5:43 KB (32 Pkts.)	Connect Z Edit	
LAN Cellular Network Network Failover WLAN AP	WAN6_1G	Uptime: 0h 54m 1s MAC-Address: 34485000000.00 RX: 3615 MB (63539 Pkts.) TX: 12.65 MB (58699 Pkts.) IPvf: 240884180:622-2455f:3aba:s040/3ea8/64 IPvf: 240884180:622-2465f:3aba:s046/000/64	🧳 Connect 🔣 Edit	
WLAN STA DHCP Static Boutes	WAN_4G	Uptime: 0h 54m 55 MAC-Address: 34:48:50:00:00:00 RX: 56:15 MB (58:53:9 Pits.) TX: 12.65 MB (58:699 Pits.) IPv4: 10.61:61:87/29	🖉 Connect 📝 Edit	
Diagnostics Tcpdump	WAN_WIRED	Uptime: 0h 0m 0s MAC-Address: F47000C6F:A3:6B RX: 0.00 B (0 Ptts.) TX: 0.00 B (0 Ptts.)	🖉 Connect 📝 Edit	
> VPN > Firewall > System	WWANO ? Client "产品邮2"	Uptime: 0h 0m 0s MAC-Address: FA:70:0C:6F:A3:6E	2 Connect	
> Logout				

Figure 13. WAN interface

4.1.1. WAN_4G interface

This is the same with cellular network. Please check chapter 4.3.

4.1.2. WAN_WIRED interface

>DHCP Client Mode (Default)

The IP address of USR-G805s is assigned by the upper-level router, and the upper-level router must enable the DHCP service. G805s is connected to the WAN port of the upper-level router through the LAN port.



Communication Expert of Industri	Be Hor	nest, Do Best! AUTO REFRESHON English 中文
USR-G805	WAN - WAN_WIRED	
<u>Status</u>	On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use <u>VLAN</u> notation INTERFACE. YLANIR (e.g.: etb). 1).	
> Services	Common Configuration	(***
WAN	General Setup Advanced Settings	
LAN Cellular Network	Status Uptime: 0h 0m 0s Image:	
Network Failover	eth0 RX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.)	
WLAN AP WLAN STA	Protocol DHCP client	
DHCP Static Routes	Hostname to send when USR-G805 requesting DHCP	
Diagnostics		
Tcpdump	Back to Overview Apply Save	
> VPN		
Firewall		

Figure 14. DHCP Client of WAN interface

≻Static address Mode

In this mode, uses can set the IP address of USR-G805s.

USR IOT	Fialtor Be Hon	est, Do Best! AUTO REFRESH ON English 中文
USR-G805	WAN - WAN_WIRED	
> Status	On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces. You can also use <u>VLAN</u> notation INTERFACE. VLANR (e.g.: etb.) 1).	47
 Network 	Common Configuration	
WAN	General Setup Advanced Settings	
Cellular Network	Status Uptime: 0h 0m 0s Image: Interpret of the state of th	
Network Failover WLAN AP	TX: 0.00 B (0 Pkts.)	
WLAN STA	Protocol Static address 🗸	
DHCP Static Routes	IPv4 address	
Diagnostics	IPv4 netmask Pilease choose V	
Tcpdump	IPv4 broadcast	
> Firewall	Lee custom DNS servers	
> System		
> Logout	Back to Overview Apply Save	

Figure 15. Static IP of WAN interface

Гable 4.	Detail	parameters	of WAN	interface

Items	Description
IPv4 address	Should be on the same network segment as the LAN IP of the upper-level router.
IPv4 netmask	Users can choose the options provided by the web page or manually enter the
	subnet mask by themselves.
IPv4 gateway	Fill in the gateway address according to the actual network situation.



IPv4 broadcast	The broadcast address is calculated from the IP address and subnet mask.
Use custom DNS servers	User-defined.

≻PPPoE Mode

Fill in the correct username and password given by the operator.

Communication Expert of Industrie	Be Honest, Do Be INT
USR-G805	WAN - WAN_WIRED
> Status	On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use <u>VLAN</u> notation INTERFACE. VLANR (e.g.: eth0. 1).
Network WAN LAN Cellular Network Network Failover	Common Configuration General Setup Advanced Settings Status Uptime: 0h 0m 0s MAC-Address: F4700Cc6FA3:6B eth0 RX: 0.008 (0 Pkts) TX 000 8 (0 Pkts)
WLAN AP WLAN STA DHCP Static Routes Diagnostics	Protocol PPPOE PAP/CHAP password #
Tcpdump > VPN > Firewall > System	Back to Overview Apply Save



4.2. LAN interface

4.2.1. Basic configuration

Click the "Edit" button, the settings of the LAN port will be displayed. Users can set general settings like the IP address, gateway etc. The DHCP service of the LAN port is enabled by default, and USR-G805s will automatically assign an IP address to the device connected to the LAN port.



USR IOT Communication Expert of Industrial IOT						Be Ho	onest, Do Best! AUTO REFRESHON English 中文
USR-G805	LAN						
> Status	LAN Overview						í
Services	Network	Status		Actions			
V Network WAN LAN Cellular Network	LAN 多 ⁽ (空意) br-lan	Uptime: 0h 59m 59s MAC-Address: F4:70:00:6F:A: RX: 7.16 MB (51559 Pkts.) TX: 57.97 MB (76334 Pkts.) IPv4: 192.168.1.1/24 IPv6: fdb6:18cc:8f78:1/60	3:6D	d Con	nect dit		
Network Failover	Vlan Management						
WLAN AP	Enable V	lan 🗹					
WLAN STA	Vlan List						
DHCP					PORTS		
Static Routes		Network Interface	LAN1	LAN2	LAN3	WAN 🗸	
Diagnostics		lan(br-lan)					
Tcpdump		lan2(br-lan2)					
> VPN		lan3(br-lan3)					
> Firewall		land(br.land)					
> System > Logout		iari+(UI-18114)		U			-
	Global network opt IPv6 ULA-Pre	ions fix fdb6:18cc:8f78::/48					
		JiNan Usr IOT Technology Lir	nited http://www.pu	isr.com/			

Figure 17. LAN interface

USR IOT Communication Expert of Indust	ial lot	Be Honest, Do Be Autocenteration English	st! h∣⊕文
	interfaces separated by space	es. You can also use <u>VLAN</u> notation INTERFACE. VLANNR (e.g.; eth0. i).	*
038-3005	Common Configuration		
> Status	Conseril Setur	vd Catlian	- 1
> Services	General Setup	a serunds	25
✓ Network	Status	Uptime: 0h 60m 45s MAC-Address: F4/70:0C:6F:A3:6D	
WAN		RX: 7.24 MB (52121 Pkts.) br-lan TX: 58.24 MB (77073 Pkts.)	- 1
LAN		IPv4: 192.168.1.1/24	- 1
Cellular Network			- 1
Network Failover	Protocol	Static address v	- 1
WLAN AP	IPv4 address	192.168.1.1	- 1
WLAN STA	IPv4 netmask	255.255.255.0	- 1
DHCP	IPv4 gateway		- 1
Static Routes	IBv4 broadcast		- 1
Diagnostics	IPVP Di Dadcasc		
Tcpdump	Use custom DNS servers	114.114.114.114 au 8.8.8.8 au	
> VPN			
> Firewall	1996 assignment length	Assign a part of given length of every public IPv6-prefix to this interface	
> System	IPv6 assignment hint		
> Logout		Assign prefix parts using this hexadecimal subprefix ID for this interface.	
	21102.0		

Figure 18. Settings of LAN interface

4.2.2. VLAN enable

USR-G805s supports VLAN function, multiple network ports can be divided into different network segments. If needed, users can enable it manually.



	Network	Status		Actions		
Status Services	LAN g ^g (禁意) br-lan	Uptime: 1h 3m 25s MAC-Address: F4:70:0C:6F:A3:6D RX: 7.46 MB (53685 Ptks.) TX: 58.96 MB (79206 Ptks.) IPv4: 192.168.1.1/24 IPv5: f16b:18c:8f78:1/50		de Conne	ect dit	
V Network	Vlan Management					
LAN	Enable Vlan					
Cellular Network	Vlan List					
Network Failover				P	ORTS	
WLAN AP	Netv	ork Interface	LAN1	LAN2	LAN3	WAN 🗸
WLAN STA	i i	an(br-lan)				
DHCP	la	n2(br-lan2)				
Static Routes	la	n3(br-lan3)				
Diagnostics	la	n4(br-lan4)				
Tcpdump						
> VPN	Global network options					
> Firewall	IPv6 ULA-Prefix	fdb6:18cc:8f78::/48				
> System						

Note:

- > VLAN division is disabled by default. If this function is enabled, the IP address of the LAN1 port is automatically changed to 192.168.1.1, the IP address of LAN2 is changed to 192.168.2.1, and so on.
- > WIFI bridges to the LAN1. When a device connects to the wifi of 805s, the device obtains the same IP network segment as the LAN1 network interface.
- > LAN2 and lan3 can be arbitrarily bridged to LAN1-LAN3 networks.

4.2.3. WAN/LAN switching

After enabling the VLAN function, WAN port can be configured as LAN4 port. If you need three LAN ports without VLAN division, you can select the LAN2 and LAN3 network ports at the same time.

	Netv	work	Status		Actions		
Status Services		LAN 30 (************************************	Uptime: 1h 11m 44s MAC-Address: F470:0C:6F:A3:6D RX: 8.45 MB (59406 Pkts.) TX: 61:99 MB (86816 Pkts.) IPv4: 192.168.1.1/24 IPv6: fdb6:18cc:8f78:1/60		🖉 Cont	nect dit	
✓ Network		I				_	
WAN		Enable Vian	v				
LAN	_						
Cellular Network	VI	lan List					
Network Failover					ļ	PORTS	
WLAN AP		Netwo	rk Interface	LAN1	LAN2	LAN3	WAN V
WLAN STA		lar	n(br-lan)				LAN4
DHCP		lana	2(br-lan2)				
Static Routes		lan:	3(br-lan3)		0		
Diagnostics		lan4	1(br-lan4)				
Tcpdump							
> VPN	G	lobal network options					
> Firewall		IPv6 ULA-Prefix	db6:18cc:8f78::/48				
> System							
> Logout							
				Apply Sa	ve		

4.2.4. IPv6 configuration

For LAN ports and cellular networks, the USR-G805s supports IPv6.



If the using SIM card support IPv4 and IPv6, then it can get both IPv4 IP and IPv6 IP like the following figure.

	Free	52824 kB / 125068 kB (42%)
USK-G805	Cached	24480 kB / 125068 kB (19%)
✓ Status	Buffered	7780 kB / 125068 kB (6%)
Overview		
Routes	Network	
Services Network VPN Firewall System Loqout	IPv4 WAN Status	Type: dhcp Address: 10.30.170.168 Netmak: 255.255.240 Gateway: 10.30.170.169 ⊮DNS 1: 61.156.00.66 eth2 DNS 2: 61.179.49.66 RSSE: 27 Network Operator: CHN-UNICOM Mode: FDD-ITE(46) Connected: 1h 4m 11s
	IPv6 WAN Status	Address: 2408.84180.66fcb.24e0c4ff Gateway: Fe80ce916.94e DNS: 1:2408.0880.0888.86 ED 2:2408.0880.0888.86 eth2 RSS:: Network Operator: CHUNICOM Mode: FDD-LTE(4G) Connected: 1:h 4m 11s

For LAN port, the router can assign IPv6 IP to the LAN device, it also need the LAN device support IPv6 protocol.

	IPv4 broadcast	
USR-G805	Use custom DNS servers	114.114.114
		8.8.8.8
> Status	IPv6 assignment length	60 v
> Services		Assign a part of given length of every public IPv6-prefix to this interface
 Vetwork 	IPv6 assignment hint	
WAN		Assign prefix parts using this hexadecimal subprefix ID for this interface.
LAN		
Cellular Network		
Network Failover	DHCP Server	
WLAN AP	General Setup	tings
WLAN STA		
DHCP	Router Advertisement- Service	relay mode 🔹
Static Routes	DHCPv6-Service	relay mode
Diagnostics		
Tcpdump	NDP-Proxy	relay mode
> VPN	Announced DNS servers	
> Firewall	Announced DNS domains	
> System		
> Logout		
	Back to Overview	Apply Save

The PC connect to LAN port of USR-G805s, and it can get IPv6 IP.

以太网适配器 以太网 3:	
连接特定的 DNS 后缀 : lan IPv6 地址 : : 2408:8418:0:6fcb:6603:bed4:1c34:aec9 临时 IPv6 地址 : : 2408:8418:0:6fcb:8158:b83e:8f67:2f2d 本地链接 IPv6 地址 : : fe80::16d0:1434:a917:f72f%2 IPv4 地址 : : : : : : : : : : : : :	
无线局域网适配器 WLAN:	
连接特定的 DNS 后缀 : lan 本地链接 IPv6 地址 : fe80::c7dl:c:124c:cf62%32 IPv4 地址 : 192.168.66.182 子网掩码 : 255.255.255.0 默认网关 : 192.168.66.1	
C:\Users\Administrator>_	



4.3. Cellular network

4.3.1. Configuration

4.3.1.1. SIM switching

For USR-G805s, it supports dual sim single standby mode, and can get 4G connectivity according to user's settings. There are 3 mode for user to choose: master standby mode, mutual standby mode and manual mode.

Master standby mode: In this mode, SIM1 card is used for networking. If SIM1 fails to connect to the network, it will automatically switch to SIM2 to try to connect to the network. After SIM2 successfully connect to the network, SIM2 will be used for networking. When SIM1 is installed, it will switch back to SIM1 to try to connect to the network every set time(SIM Switching Cycle).

Mutual standby mode: in this mode, the router will give priority to the SIM card that can connect to the network normally, and the router will keep using this card to connect to the network, unless the SIM card can not connect to the network normally.

Manual mode: in this mode, the router will select the SIM card for networking according to the user's settings. Even if this SIM card can not connect to the Internet, it will not automatically switch to other SIM cards for networking. In this mode, users can remotely switch cards manually by SMS commands.

Communication Expert of Industr	ai lot	Be Hones	ST, DO E
USR-G805	Cellular Network Con	figuration	
Status	Configure network search p	riority to reduce network search time.	
> Services			
✓ Network	Config		
WAN	Configuration SIM1 Cd	onfig SIM2 Config Mobile Information	
LAN	Dual CIM Cuitching Mode	Maetar Standhu Moda	
Cellular Network	Dual Stirl Switching Houe	Set the dual-SIM switchover mode	
Network Failover	SIM Switching Cycle	300	
WLAN AP		In the master standby Mode, when using sim2 for internet access, it will attempt to switch to sim1 for internet access after the "SIM Switching Cycle" is	
WLAN STA		reached, value range: 160~80400s.	
DHCP	Link Detection Enable	Once selected, check the network connect with ping	
Static Routes			
Diagnostics			
Tcpdump		Apply Save	
> VPN			

4.3.1.2. Link detection

After enabling the link detection function, users can set the ping interval and tries, if the success rate of ping is lower than the set value, the router will choose to restart the module or the router according to the parameter settings.



	Conlig	
USR-G805	Configuration SIM1 Co	onfig SIM2 Config Mobile Information
) Ctoture	Dual SIM Switching Mode	Master Standby Mode
Status		Set the dual-SIM switchover mode
> Services	SIM Switching Cycle	600
 Vetwork 		in the master standby Mode, when using sim2 for internet access, it will attempt to switch to sim1 for internet access after the "SIM Switching Cycle" is
WAN		reached, Value range: 180~86400s.
LAN	Link Detection Enable	🛿 🔞 Once selected, check the network connect with ping
Cellular Network	Interval	10
Network Failover		ping interval unit: sec,1-86400
WLAN AP	Max Ping Tries	3
ΜΙ ΔΝΙ STA		Perform recovery action after reaching Consecutive failures times, 1-100
DUCD	Detection Address 1	8.8.8
DHCP		Ø Set the first address for ping check
Static Routes	Detection Address 2	
Diagnostics		Set the second address for ping check
Tcpdump	Detection Address 3	
> VPN		Set the third address for ping check
> Firewall	Recovery Action	Reset Modem
> System		

Items	Description	
Link Detection Enable	Whether to enable the link detection function.	
	By default, it's not enabled.	
Interval	The time interval between two consecutive pings.	
	Range: 1-86400 s, It's 10 seconds by default.	
Max Ping Tries	The maximum number of attempts to ping.	
	Range: 1-100, it's 3 attempts by default.	
Detection Address 1	The first destination IP address of ping command	
Detection Address 2	The second destination IP address of ping command	
Detection Address 3	The third destination IP address of ping command	
Recovery Action	None: No action is performed	
	Redial: Execute the redial procedure	
	Reset modem: Restart 4G modem	
	Reboot device: Restart the router	

4.3.2. SIM1 configuration

For USR-G805s, it supports dual sim single standby mode,

Figure 19. Basic configuration of cellular network

Items	Description	Default
SIM Card Priority	None: Prioritize the use of the sim card used for the last dial-up.	None

Table 5. Detail parameters of cellular network

	D	11	C	D®
25	www	v.p	UST.	com

	SIM1: Prioritize using SIM1 to dial up and connect to the Internet.	
	SIM2: Prioritize using SIM2 to dial up and connect to the Internet.	
Sim Card Switch	Enable: Enable automatic SIM switching.	Enable
	Disable: Disable automatic SIM switching.	
Trigger Signal	If the signal value of the currently used SIM card is lower than the	-100dBm
Threshold	set value, G805s will automatically switch to another SIM card.	
Continue Dial	When the number of dialing failures reaches this value, switch to	2
Failures	another SIM card and dial again.	
Link Detection	OFF: Disable the Ping detection.	SIM1&SIM2
Enable (Ping	SIM1: When using SIM1, enable the PING detection.	
detection)	SIM2: When using SIM2, enable the PING detection.	
	SIM1&SIM2: Enable the PING detection Whether using SIM1 or SIM2.	
Detection Interval	Interval of PING detection. Unit: s	10
Detection Fail	If the number of PING attempts exceeds this value, it will redial.	4
Number		
Detection Address 1	The main destination host of PING detection.	8.8.8.8
Detection Address 2	The alternate destination host of PING detection.	8.26.56.26

4.3.3. SIM1/SIM2 configuration

The settings of SIM1 can be configured on this page. And the SIM2 configuration is the same with SIM1.

USR-G805	Configuration SIM1 Co	onlig SIM2 Config Mobile Information
	APN	mobile 🗸
> Status		Input your APN Name, 0-62 characters
> Services	Username	
✓ Network		Ø User name for apn, 0-62 characters
WAN	Password	
		User password for apn, 0-62 characters
LAN	Auth Method	PAP AND CHAP
Cellular Network		 Authentication type for apn
Network Failover	Network Type	AUTO
WLAN AP		
WLAN STA	LTE band selection	auto 🗸
DHCP		◎ Enter 'auto' or '' tor '1:23' Supported LTF frequency bands: 1:3:58:34:38:39:40:41
Dirici B		
Static Routes	PDP Type	IPV4&v6 V
Diagnostics	мти	1500
Tcpdump		1280-1500
> VPN	Priority Of Network Search	AUTO V
> Firewall		The priority of network search
> System	PIN Enable	If SIM card enable PIN, enable this function to enter the PIN code
> Logout	EHRPD Enable	Disable 🗸

Figure 20. SIM card configuration



Items	Description	Default
APN Name	The SIM card operator provides this parameter.	Auto check
Username	The SIM card operator provides this parameter.	None
Password	The SIM card operator provides this parameter.	None
Auth Type	The SIM card operator provides this parameter.	PAP and CHAP
Network Type	AUTO: According to the on-site network environment, it can automatically	AUTO
	select to stay on the network 4G/4G/3G.	
	2G: Lock the 2G network, if there is no 2G network on site, it can't connect to	
	the network.	
	3G: Lock the 3G network, if there is no 3G network on site, it can't connect to	
	the network.	
	4G: Lock the 4G network, if there is no 4G network on site, it can't connect to	
	the network.	
LTE band	In custom mode, user can set specific band to connect to the network. And can	auto
selection	select multiple bands, like 1:2:3	
PDP Type	PDP protocol context type.	IPv4&IPv6
Network	Network priority selection.	auto
Search Priority		
PIN Enable	Enable If the SIM card has enabled the PIN function, the USR-G805s also needs to	
	enable this function also.	
EHRPD Enable	If 3.4G network is need, users can enable this function.	Disable

Table 6. Parameters description of SIM card

4.3.4. Mobile information

On this page, user can check some information about the SIM card, like the signal strength, the ICCID, network type etc. The detailed information is shown like the following picture.



JSR-G805	Configuration SIM1 Config SIM2 Config Mobil	e Information
	Modem Version:	17016.1000.00.38.01.31
ŝ	IMEI:	869312066104521
ices	Dial SIM:	sim1
vork	SIM Status:	READY
	SMS Service Center:	+80
4	ICCID:	898601250000000000
lular Network	Phone Number:	+861
vork Failover	CIMI:	460018600406728
NAP	APN:	mobile,,,1
N STA	Attachment Status:	Attached
	Network Operator:	CHINA-UNICOM
Routes	Network Type:	4G Mode
iostics	BAND:	1
ump	IP Address:	10.18.19.97
	IPv6 Address:	2408:8418:0:2cad:d0e2:5094:46e9:dacc/64Global 2408:8418:0:2cad:364b:50ff;fe00:0/64Global
all	Signal Strength:	29(-55dRm)
	Location Area Coder	D305
,n	collips	00030405

Figure 21. Information of cellular network

For USR-G805 device, it supports display the input/output rate of 30 seconds and 5 minutes.

	Cell ID:	08C3B485		
USR-G805				
	Cellular Traffic Rate			
> Status	Time Interval	30seconds	5minutes	
> Services	Input Rate	45 51 Kbit/s	22 63 Kbit/s	
✓ Network		-5.51 (6175	22.00 101/3	
	Output Rate	9.31 Kbit/s	6.17 Kbit/s	
WAN				

4.4. Network failover

In this interface, users can choose network priority. The default is to use the WAN port network first.



Communication Expert of Inc	lustrial IOT	Be Honest, Do Best!
USR-G816	Network Switch	
> Status	Configure the network switc	hing function.
> Services	Configuration	
✓ Network	Priority	ETH>Cellular>STA v
LAN	Reference Mode	Custom 🗸
Cellular Network	Primary Server	114.114.114.114 • • • • • • • • • • • • • • • • • •
Wireless	Secondary Server	119.29.29.29 V
WWAN DHCP	Thirdly Server	8.8.8.8
Static Routes WAN/LAN Port	Ping Interval	10 ⁰ 1-00xeconds
Diagnostics	Package size	100 22-1024Bytes
> Firewall	Timeout	2000
> DTU		I00-20000milliseconds
> System		
> Logout		Apply Save
		JiNan Usr IOT Technology Limited http://www.pusr.com/

Figure 22. Network switch page

4.5. WLAN AP

4.5.1. Basic settings

Users can set Wi-Fi related information on this page.

USR-G805	2.4G Settings	Client Inf	formation	
Status		Status	Mode: Master SSID: USR-G805-A36B	
Services			BSSID: F4:70:0C:6F:A3:6E Channel: 1 (2.412 GHz)	
 Network 	_		TX-Power. 27 dbm	
LAN		Enable		
Cellular Network		Hide SSID		
Network Failover		SSID	USR-G805-A36B	
WLAN STA		Encryption	mixed-psk 🗸	31
DHCP		Key	1100	9
Static Routes		Channel	auto	
Tcpdump			If STA is enabled, the configuration	on is affected by STA.
VPN		HT Mode	auto V	on is affected by STA.
Firewall		Regions	00 - World 🗸	

Figure 23. AP settings

Table 7.	Parameters	description	of Wi-Fi interface

Items	Description	Default
Enable	To choose whether to enable the Wi-Fi function.	Enable



Hide SSID	To choose whether to hide the SSID.	Disable
	If the SSID is hidden, the user cannot search for the Wi-Fi	
	name on the mobile phone or PC. Users can connect to Wi-Fi	
	by manually entering the SSID.	
SSID	Wi-Fi name, users can modify as needed.	USR-G805s-xxxx
Encryption	To choose Wi-Fi encryption method.	Mixed-psk
Кеу	The password of Wi-Fi.	www.pusr.com
HW Mode	To choose Wi-Fi standard.	11ng
Channel	To choose Wi-Fi channel.	auto
HT Mode	To choose high throughput.	auto
Regions	This option is for 5.8G Wi-Fi.	00-World

4.5.2. Client information

On this page, the users can view the device information connected to the USR-G805s through Wi-Fi.

-4003		-						
		WLAN AP Settings						
		WLAN AP Settings						
		1944						
		2.4G Settings Client I	nformation					
		SSID	MAC Address	IDv4 Address	Signal	Neise	PV Pate	TV Pate
			MAC-Address	irvt-Address	Signal	NOISE ID	CA CARDA	
	L	USR-G805-A36B	C8:94:02:7F:EA:53	?	-66 dBm	-95 dBm	61.6 Mbit/s	37.4 Mbit/s
rk								
ver								
				Apply	Save			

Figure 24. Client information of Wi-Fi

4.6. WLAN STA

4.6.1. Basic settings

On this page, users can enable the STA function and set relevant parameter. The default setting is OFF.



038-0003	WLAN STA Settings	
	WLAN STA Settings	
Status		
> Services	2.4C Settings AD Infor	mation
✓ Network	2.46 Settings AP Intol	Indition
WAN	Enable	
LAN	Scan	Scan
Cellular Network		本日前の
Network Failover	5510) пппр2
WLAN AP	Encryption	mixed-psk.
WLAN STA	Key	
DHCP	network	wwan0
Static Routes	IEWOK	When selecting the LAN interface, please modify or close the DHCP configuration of the LAN port and configure the LAN port address as the address
Diagnostics		within the upper routing subnet
Tcpdump	Enable Ping Check	Ø Once selected, check the wireless connect with ping
) VPN		
Circurell.		
Firewall		Apply Save

Figure 25. STA settings

The steps to connect to the upper-level routers:

1>Click "Scan" button,

2> Click the drop-down button of SSID, the available Wi-Fi network is displayed. Users can select the Wi-Fi

network or enter the Wi-Fi name to connect to.

3>Enter the password of the Wi-Fi network if needed.

4>Choose network type:

Wwan0: Relay mode.

LAN: Bridge mode, the DHCP service should be closed, and the LAN IP should be in the same segment of upperlevel router.

Communication Expert of Industrial IOT	Be H	onest, Do Best!
USR-G816 Status Services	WWAN Settings When enabling the STA, make sure that the AP corresponding to the device is enabled. After the STA is successfully connected, the channel, bandwidth and mode of the AP of the device will be synchronized to the same as the STA.	
V Network VVAN LAN Cellular Network Network Wireless WWAN DHCP Static Routes WAN/LAN Port	Basic Settings 2.4G Settings AP Information Scan Scan SID WIFI-STA Distr. AP User 157-24-G Network R CV2_F9F7 OF 85 Enable Ping Check Gat 05057 USE t wireless connect with ping	
Diagnostics > VPN > Firewall > DTU > System > Logout	U20 4G USR 194D 8451 5425 7626 7626 7626 7627 7626 7626 7627 7677 7677 7677 7677 76777 76777 76777 76777 76777 767777 767777 7677777 76777777	

Figure 26. Searched AP list



4.6.2. AP information

If the USR-G805s connect to upper-level Wi-Fi successfully, the information will be displayed in this page.

LISP-C805						
JSK-0005	WLAN STA S	ettings				
	WLAN STA Settin	ngs				
us						
rices	2.4G Settings	AP Information				
work						
	SSID	MAC-Address	Signal	Noise	RX Rate	TX Rate
	🤳 产品部2	D4:AD:20:4A:58:E2	-73 dBm	-95 dBm	43.1 Mbit/s	9.8 Mbit/s
lar Network						
vork Failover						
AN AP			Apply	Save		

Figure 27. The AP information

4.7. DHCP introduction

On this page, users can assign static IP addresses to specific network devices and define device hostnames.

Communication Expert of Industrial IOT					Be Honest, De AUTO REFRESH ON
USR-G816	DHCP and DNS				
StatusServices	DHCP list information and Static Lease Static leases are used to assign fixed IP hosts with a corresponding lease are se	addresses and symbolic hostnames rved.	to DHCP clients. They are also requir	ed for non-dynamic interface configurations v	where only
✓ Network	Active DHCP Leases				
WAN	Hostname	IPv4-Address	MAC-Address	Leasetime remaining	
LAN	USR-FEUWTMNMYOU	192.168.1.182	c8:94:02:7f:ea:53	11h 49m 10s	
Cellular Network	USR-FEUWTMNMYOU	192.168.1.115	c8:5a:cf:af:68:4b	10h 20m 32s	
Network Switch					
Wireless	Static Leases				
WWAN	Hostname	MAC-	Address	IPv4-Address	
DHCP					
Static Routes		This se	ction contains no values yet		
WAN/LAN Port					
Diagnostics	New rule:				
VPN	Hostname	MAC-Address		IPv4-Address	
> Firewall	New rule				bba 😭
2 DIU					
System					
2 Logout			Apply Save		
	JiNan U	ar IOT Technology Limited	http://www.pusr.com/		

Note: Up to 10 rules can be added.

Figure 28. DHCP rules

4.8. Static routes

4.8.1. Static routing adding

Static routing describes the routing rules for packets on Ethernet.



Note: Up to 100 static router rules can be added.

Communication Expert of Indust	Be Hon autor	est, Do Best!
USR-G816	Static Routing To find information on static routing configuration, refer to the figure and table below.	
Status Services Network	Static Routing Routing Table	
WAN	Static IPv4 Routes Interface Target <u>IPv4</u> -Netmask <u>IPv4</u> -Gateway Metric	
Cellular Network Network Switch Wireless	This section contains no values yet	
WWAN DHCP	New Rule: Interface Target IP.vd-Netmask IP.vd-Gateway Metric Heat IB.ex.Network If target is a network	
Static Routes WAN/LAN Port	Ian v 255:255:255.0 0 Add	
> VPN > Firewall > DTU	Apply Save	
> System > Logout		
	JINan Usr IOT Technology Limited http://www.pusr.com/	0

Figure 29. Static routing rule

Items	Description	Default
Interface	Network interface of the target network.	
Target	Destination network address.	LAN
IPv4	A netmask is used to divide an IP address into sub-networks (subnets).	None
Netmask	Combined, the 'Netmask' and 'Target' values define the exact destination	
	network or IP address to which this route applies.	
IPv4	A gateway can be any machine in a network that is capable of serving as an	None
Gateway	access point to another network. Traffic that matches this route will be directed	
	over the IP address specified in this field.	
Metric	The metric value acts as a measurement of priority. If a packet about to be	None
	routed matches two or more rules, the one with the lower metric is applied.	

Table 8. Parameters description of static routing

4.8.2. Routing table

All routing rules are displayed on routing table page.



USR IOT Communication Expert of Industrial IOT								Be Ho	uest, D
USR-G816	Static Routing								
Status Services	To find information	on static routing configuratio	n, refer to the figure and table below						
Network	Destination	Gateway	Netmask	Flags	Metric	Ref	Use	Interface	
	0.0.0.0	172.16.10.1	0.0.0.0	UG	0	0	0	eth0	
llular Network	0.0.0.0	172.16.10.1	0.0.0.0	UG	5	0	0	eth0	
twork Switch	0.0.0.0	10.0.0.1	0.0.0.0	UG	10	0	0	pcie0	
eless	10.0.0.0	0.0.0	255.0.0.0	U	10	0	0	pcie0	
/AN	10.0.0.1	0.0.0	255.255.255.255	UH	10	0	0	pcie0	
CP	172.16.10.0	0.0.0	255.255.254.0	U	5	0	0	eth0	
tic Routes	172.16.10.1	0.0.0.0	255.255.255.255	UH	5	0	0	eth0	
N/LAN Port	192.168.1.0	0.0.0	255.255.255.0	U	0	0	0	br-lan	
gnostics									
N			Apply	Save					
wall									
E.									
tem									
gout									
		Figure 30.	Routing table	checking					

4.9. Network diagnostics

USR-G805s provides online diagnostic functions, including Ping tools, routing analysis tools, and DNS

viewing tools.

Communication Expert of Industrial IOT				Be Honest, Do Best!
USR-G816	Diagnostics			
> Status	Network Utilities			
> Services	114.114.114	114.114.114.114	www.baidu.com	
✓ Network	Ping	Traceroute	Nslookup	
WAN				
LAN	PING 114.114.114.114 (114.114.11 64 bytes from 114.114.114.114: se	14.114): 56 data bytes eq=0 ttl=69 time=6.051 ms		
Cellular Network	64 bytes from 114.114.114.114: se 64 bytes from 114.114.114.114: se	q=1 ttl=79 time=5.913 ms q=2 ttl=81 time=6.005 ms		
Network Switch	64 bytes from 114.114.114.114; se 64 bytes from 114.114.114.114; se	q=3 ttl=83 time=6.303 ms q=4 ttl=73 time=6.271 ms		
Wireless	114.114.114.114 ping statistics			
WWAN	5 packets transmitted, 5 packets re round-trip min/avg/max = 5.913/6.	ceived, 0% packet loss 108/6.303 ms		
DHCP				
Static Routes				
WAN/LAN Port				
Diagnostics				
> VPN				
> Firewall				
> DTU				
> System				
> Logout				
	JiNa	an Usr IOT Technology Limited http://www.p	usr.com/	

Figure 31. Network diagnostics



Items	Description	Default value
Ping	Users can ping a specific IP address directly on the router	8.8.8.8
	side.	
Traceroute	Routing analysis tool, which can obtain the routing path	8.8.8.8
	passed when accessing an address.	
Nslookup	A DNS viewing tool that can resolve domain names to IP	www.google.com
	addresses.	

Table 9. Description of diagnostic types

4.10. TCP dump

The router supports topdump packet capture on web pages and can download the captured files for data analysis. Packets can be captured on multiple interfaces based on the number of packets or the interval.

USR-G805				
	Start network capture			
tatus	Interface seconds, pac	kets	Filter	Actions
ervices	wan_4g 🗸 0	seconds 🗸	filter	Stop capture
twork				
AN	Output			
u v	tcpdump: listening on eth2, link-type i	EN10MB (Ethernet), capture size 262144 byt	es	
lular Network				
twork Failover				
N AP	Capture links			
AN STA	Capture file	Modification date	Capture size	Actions
р	capture_2024-07-10_06.10.42	10/7/2024 18:11:4	8.15 KiB	👙 pcap file 🛛 🚳 Remove
c Routes	capture_2024-07-10_06.11.17	10/7/2024 18:11:17	0 B	🚳 pcap file 🛛 🕲 Remove
nostics			1.144	
ump	capture_2024-07-10_06.11.26	10/7/2024 18:11:36	4 KiB	🔮 pcap file 🛛 🧐 Remove
	All files		12.15 KiB	i Download 🙆 Remove
all				
0				

5. VPN

5.1. PPTP Client

Point-to-Point Tunneling Protocol (PPTP) is a type of VPN protocol that uses a TCP control channel and a Generic Routing Encapsulation tunnel to encapsulate PPP packets.



Communication Expert of Inc	kutrial KOT	Be Honest, Do Best!
USR-G816	PPTP Setting	
> Status	PPTP Parameters	
> Services> Network	Server Address	192.168.0.2
V VPN	Interface	auto
L2TP	User Name	
VPN Status	Password	8
> Firewall > DTU	Remote Subnet	192.168.55.0 @ eg: 192.168.10.0
> System	Remote Subnet Mask	255.255.0 g: 255.255.0, if empty, the default value is 255.255.0
2 Logoui	NAT	2
	Enable MPPE Encryption	0
	мти	1450 @ 600~1450
	Extra option	
	Enable Static Tunnel IP Address	Append pppd options,Non - professional,careful modification
	••••	JiNan Usr IOT Technology Limited http://www.pusr.com/

Figure 32. PPTP VPN settings

Items	Description	Default
PPTP Client	Whether to enable PPTP client.	Disable
Server Address	Set PPTP server IP or domain name.	192.168.0.2
Interface	Select the interface according to different networking methods.	auto
Username	Username used for authentication to the PPTP server. They are	None
/Password	provided by the VPN server.	
Remote Subnet	These are the IPv4 client-side networks that will be routed to this	192.168.55.0
	client specifically using route, so that a site-to-site VPN can be	
	established.	
Remote Subnet Mask	Subnet mask of remote client network.	255.255.255.0
NAT	Network address translation. It's a way to map multiple private	Enabled
	addresses inside a local network to a public IP address before	
	transferring the information onto the internet.	
Enable MPPE	This option must be consistent with the VPN server.	Enabled
Encryption		
MTU	The MTU value of the PPTP channel must be consistent with the	1450

Table 10. Parameter details of PPTP VPN



	VPN server.	
Extra option	Append pppd parameters, non-professionals, prohibited	None
	operation.	
Enable Static	Users need to enter static IP manually if this option is enabled.	Disabled
Tunnel IP		
Address		
Default Gateway	Force all client generated traffic through the tunnel, except WAN	Disabled
	protocol is PPPOE.	
Enable Ping	The USR-G805s will reconnect to PPTP server if the PING	Disabled
	command fails more than preset times.	
Ping Period	The time interval between two ping commands.	10
Ping times	Number of ping attempts.	3

5.2. L2TP Client

L2TP, also called Layer 2 Tunneling Protocol, is a tunneling protocol used to create VPN connections. Its main purpose is to securely transport data over public networks.

Communication Expert of Industri	TOI la	Be Honest, Do Best!	
USR-G816	L2TP Setting		Î
Status	L2TP Parameters		l
Services	L2TP Client	t 🖲 Enable 🔿 Disable	L
> Network	Server Address	s 192.168.0.2	L
V VPN	Interface	a auto	L
РРТР		Auto refers used default route interface to connect	L
L2TP	User Name	a la	L
VPN Status	Password		L
> Firewall	Tunnel Name	a	L
> DTU	Tunnel Password		L
> System		Character(0-50)	L
> Logout	Remote Subnet	t 192.168.55.0	L
		🞯 eg: 192.168.10.0	L
	Remote Subnet Mask	(255.255.0 	L
		. de en	
	NAT		
	MTU	J 1450 (a) 600-1450	
	Extra option		
		Ø Append pppd options, Non - professional, careful modification	*
		JiNan Usr IOT Technology Limited http://www.pusr.com/	

Figure 33. L2TP VPN settings



Items	Description	Default


L2TP Client	Turns the L2TP client on or off.	Off
Server Address	Set L2TP server IP or domain name.	192.168.0.2
Interface	Select the interface according to different networking methods.	auto
Username/ Password	Username used for authentication to the PPTP server. They are	192.168.55.0
	provided by the VPN server.	
Tunnel Name	The name of L2TP tunnel.	None
Tunnel Password	The password of L2TP tunnel.	None
Remote Subnet	These are the IPv4 client-side networks that will be routed to this	192.168.55.0
	client specifically using route, so that a site-to-site VPN can be	
	established.	
Remote Subnet Mask	Subnet mask of remote client network.	255.255.255.0
NAT	Network address translation. It's a way to map multiple private	Enabled
	addresses inside a local network to a public IP address before	
	transferring the information to the internet.	
MTU	The MTU value of the PPTP channel must be consistent with the	1450
	VPN server.	
Extra Option	Append pppd parameters, non-professionals, prohibited	None
	operation.	
Enable Static Tunnel	Users need to enter static IP manually if this option is enabled.	Disabled
IP Address		
Default Gateway	Force all client generated traffic through the tunnel, except WAN	Disabled
	protocol is PPPOE.	
Enable Ping	The USR-G805s will reconnect to PPTP server if the PING command	Disabled
	fails more than preset times.	
Ping Period	The time interval between two ping commands.	10
Ping times	Number of ping attempts.	3

5.3. IPSec VPN

USR-G805s supports IPSec VPN, both v1 and v2 version.





Items	Description	Default	
IPSec enable	Whether to enable IPSec VON	Disable	
Interface	Select the interface according to different networking methods.	auto	
Peer Address	Set L2TP server IP or domain name.	192.168.0.2	
Negotiation Method	Main and aggressive are supported	main	
Tunnel Type	4 types: Site to site, Site to host, Host to site, Host to host	Site to site	
Local Subnet	Local IP and mask of IPSec VPN	192.168.1.0/24	
Peer Subnet	Peer IP and mask of IPSec VPN	192.168.55.0/24	
IKE Version	V1, V2 version are supported	lkev2	
IKE Encryption	3DES, AES-128, AES-192, AES-256 are supported	3DES	
Algorithm			
IKE Integrity	MD5, SHA1, SHA2-256, SHA2-512 are supported	MD5	
Algorithm			
Diffie-Hellman Group	Group1(768bits), Group2(1024bits), Group5(1536bits),	Group2(1024bits)	
	Group14(2048bits).		
IKE Life Time	Range: 400-86400 seconds	28800	
Authentication Type	pre-shared key authentication is supported	Pre-shared Key	
Pre-shared Key	Set the key of authentication type,	123456abc	
	1-50characters can be set.		



Local Identifier	It can be IP address or @domain,	@client
	0-29 characters can be set.	
Peer Identifier	It can be IP address or @domain,	@server
	0-29 characters can be set.	
ESP Encryption	3DES, AES-128, AES-192, AES-256 are supported	AES-128
Algorithm		
ESP Integrity	SHA1, SHA2-256, MD5 are supported	SHA-1
Algorithm		
Perfect forward	None, DH1, DH2, DH5	DH2
encryption(PFS)		
ESP Life Time	Range: 400-86400 Seconds	3600
DPD Timeout	Sets the timeout duration for Dead Peer Detection	60
DPD Detection Period	Sets the detection period for Dead Peer Detection	60
DPD Action	Sets the action for DPD detection, including Restart, clear, Hold,	Restart
	None	
Enable Ping Tracking	Whether to enable the PING detection	Disable

5.4. OpenVPN

In OpenVPN mode, the USR-G805s support 3 OpenVPN clients and 1 OpenVPN server. This means USR-G805s can connect to 3 OpenVPN servers simultaneously.

Communication Expert of Indus	strial IOT						Be Hon	est, Do Best!
USR-G816 Status Services Network VPN PPTP L2TP	OpenV Enhanced OpenVI CI	PN Configuration d OpenVPN design allows 3 OpenVP PN Configuration Name Type ULENT_1 CLIENT LIENT_2 CLIENT	N Clients and 1 OpenVPN Ser Description	ver Enable OFF	~	Status Disconnected Disconnected	Edit	
OpenVPN Certificate Management VPN Status > Firewall > DTU > System > Logout	C) SE	LIENT_3 CLIENT SRVER_1 SERVER		OFF OFF Apply	~	Disconnected	Edit	
		JiNan Usr IOT T	echnology Limited h	nttp://www.pusr.co	m/			0



Figure 34. Edit OpenVPN settings

5.4.1. OpenVPN client

USR-G805s supports import .ovpn config file and PKCS#12 cert-file. Say goodbye to complex parameter settings. After importing the ovpn file, users just need to config the username and password.

Communication Expert of Indus	arial lot	Honest, Do Best!
USR-G816	CLIENT_1 - OpenVPN Configuration Configuration	
> Services > Network > VPN PPTP	Enable ON V Description The maximum length is 50 Bytes. Enable OpenVPN config	
L21P OpenVPN Certificate Management VPN Status > Firewall	OpenVPN Config File 透理文件 未选择任何文件 User name <	
> DTU > System > Logout	Interface auto v auto refers used default route interface to connect Log Level warning(3) v @ Log Level0-11	
	Extra Option The content here will be written directly to the configuration file. Please fill in carefully Local Route - LAN IP address and subnet mask of the remote network.	
	Subart JiNan Usr IOT Technology Limited http://www.pusr.com/	0

Figure 35. Upload OpenVPN Config file

If users need to set parameters using traditional way, just turn off the config file. The ca, cert, and key file can be loaded in "Certificate Management" page.



Communication Expert of Indus	trial IOT			Be Honest, Do Best!
	Configuration			•
USR-G816	Enable	on 🗸		
> Status	Description	(2) The maximum length is 50 Bytes.		
> Services > Network	Enable OpenVPN Config from file	⊖ on .● off		
✓ VPN	Protocol	UDP 🗸		
РРТР	Remote Host IP Address	192.168.0.2		
L2TP	Port	1194		
OpenVPN Certificate Management	Authentication Type	SSL/TLS ¥		
VPN Status	TUN/TAP	TUN 🗸		
 Firewall DTU 	Topology	Subnet 🗸		
> System	Interface	auto v	e to connect	
> Logout	redirect-gateway			
	NAT			
	Enable Keepalive			
	Ping detection interval	10 Ping remote once every n seconds over	r TCP/UDP port.	
	ping-restart n	120 (2) Restart if n seconds pass without reception of the second secon	tion of remote ping.	
	i.	Nan Usr IOT Technology Limited	http://www.pusr.com/	· · · · · · · · · · · · · · · · · · ·

Figure 36. Enable traditional OpenVPN settings

Communication Expert of Indus	Be Honest, Do Best!
USR-G816	Certificate Management
> Status	The current page is used to centrally manage various certificate and key files related to OpenVPN
> Services	Client1 Certificate
 > Network VPN PPTP L2TP OpenVPN Certificate Management VPN Status > Firewall > DTU > System > Logout 	pkcs12(p12) 勝度文件 未随程任何文件 ● PCCSF12(P12) files define an archive file format for storing cryptographic objects as a single file. It means that .p12 file is able to contain ca & cert & key. Generally if you have a .p12 file already, there is no need to upload ca & cert & key one by one. C a 透理文件 未随理任何文件 cert 透理文件 未随理任何文件 tbs-auth(secret key) 透理文件 未选择任何文件 tbs-auth(secret key) 透理文件 未选择任何文件 tbs-auth(secret key) 透理文件 未选择任何文件 tbs-crypt(secret key) 透理文件 未选择任何文件 Pre-shared key(secret key) 透理文件 未选择任何文件 Certificate Password Type ● file o input
	Certificate Password Laber文件 Client2 Certificate pkcs12(.p12) 通程文件 未选择任何文件 @ PKCSF12 (P12) files define an archive file format for storing cryptographic objects as a single file. It means that .p12 file is able to contain ca & cert & key. Generally if you have a .p12 file already, there is no need to upload ca & cert & key one by one. ca

Figure 37. Upload certificate file



5.4.2. OpenVPN server

Communication Expert of Indus	trial IOT	Be H	onest, Do Best!
USR-G816	SERVER_1 - OpenVPN	N Configuration	
Status	Configuration		
> Services	Enable	e OFF 🗸	
> Network	Description	n	
~ VPN		O The maximum length is 50 Bytes.	
РРТР	Enable OpenVPN Config from file	e Not Support	
L2TP	Protocol	UDP v	
OpenVPN	Port	+ 1194	
VPN Status	Put		
Firewall	Authentication Type	e SSL/ILS V	
> DTU	TUN/TAP	p TUN ~	
> System	Topology	y Subnet v	
> Logout	Client Subnet	at	
	Client Netmask	k	
	Renegotiation Interval(s)) 3600	
	max clients	s 16	
		Allow a maximum of n simultaneously connected clients.	
	Client to client	t 🛛 🎯 Internally route client traffic.	
	Duplicate certificates	s 🗌 🥥 It allows multiple clients to connect using the same certificates.	
	Ŭ.	JiNan Usr IOT Technology Limited http://www.pusr.com/	0

Figure 38. OpenVPN server settings

5.5. GRE

USR-G805
Status
> Services
Network
Network
V VPN
РРТР
L2TP
IPSec
OpenVPN
Certificate Managem
CPE
UKL
VPN Status
> Firewall
> System
> Logout

ltems	Description	Default
GRE	Whether to enable GRE VPN.	Disable
Interface Name	The name of GRE VPN tunnel	gre_gre1
Interface		auto
Peer WAN IP	Remote GRE WAN IP address	192.168.0.10



Peer Tunnel IP	Remote GRE tunnel IP address	10.10.10.1
Peer Subnet	Remote IP/Mask	192.168.55.0/24
Local Tunnel IP	Local GRE tunnel IP address	10.10.10.2
NAT	Whether NAT is required for data passing through GRE interfaces	Enabled
TTL	Set the TTL parameters(1~255)	255
MTU	Set the MTU(600~1500)	1450
Enable Ping	The USR-G805s will reconnect to GRE VPN if the PING command	Disabled
	fails more than preset times.	
Ping Period	The time interval between two ping commands.	10
Ping times	Number of ping attempts.	3

6. Firewall

6.1. General Settings

There are 2 basic firewall rules by default in USR-G805s.

Communication Expert of Industrial IOT				Be Hone	st, Do Best!
USR-G816 Status Services Network VPN Firewall General Settings Port Forwards Traffic Rules Access Restrictions DTU System Logout	Firewall - Zone Settings The firewall creates zones over your network interfaces to control network General Settings Enable SYN+flood Drop invalid packets Input Output accept Forward Zones=>Forward Source Zone=>Destination zones Image: Image	k traffic flow.	Masquerading C C C C C C C C C C C C C C C C C C C	MSS clamping	
	JiNan Usr IOT Technology Limited	http://www.pusr.com/			

Figure 39. General settings of firewall

>Input: Packets that accessing router's IP.

- >Output: Packets sent from the router.
- >Forward: Data forwarding between interfaces, without routing itself.



>Masquerading: IP masquerading automatically, which is meaningful for the WAN port and 4G port, the

masquerading for IP when access the external.

≻MSS clamping: Limit the large of the MSS, generally it is 1460.

The first rule:

>The input, output, and forward packet from LAN to WAN is accept by default.

≻Forward: If the data package will access the WAN from the LAN, so the rule allows data package from the

LAN to WAN.

>Input: Open the webpage of the router when you under the LAN.

>Output: The router accesses the extern net, like NTP.

The second rule:

>WAN and 4G interface receive the input, output and forward packet by default.

>If there is input data package and it will be allowed. Such as someone will login the webpage of the router from the WAN.

Same as the input, the output will be allowed if access the external net from the WAN or 4G of the router.

>The forward package is also allowed, data packets from the WAN port want to be forwarded to the LAN.

6.2. Port forward

6.2.1. Port forward

A port forward is a way of making a computer on your home or business network accessible to computers on the internet, even though they are behind a router or firewall.

Up to 100 port forwards can be added.

Items	Description	Default
Name	The name of port forwarding rules, user-defined.	None
Protocol	Protocol type, options: TCP+UDP, TCP, UDP.	TCP+UDP
External Zone	WAN or VPN.	WAN
External port	Users can set a single port or a range of ports, like 8000-9000.	None
	Note: It's DMZ function when external port and internal port	
	are empty.	
Internal zone	LAN or VPN.	LAN
Internal IP	IP address of device connected to LAN port.	None

Table 12. Parameter details of port forward



address		
Internal port	Users can set a single port or a range of ports, like 8000-9000.	None
	Note: It's DMZ function when external port and internal port	
	are empty.	

Communication Expert of Indu	strial IOT			Be Hone
USR-G816 Status Services Network	Firewall - Port For Port forwarding allows Port Forwards Name	wards remote computers on the Internet to connect to a specific comput Match Rules	ter or service within the private LAN. Forwarding To	Enable Sort
VPN Firewall General Settings Port Forwards	New Port Forwarding Ru	This section contain	ns no values yet	
Traffic Rules Access Restrictions > DTU	Name New port forward	Protocol External External port zone TCP+UDP v wan v	Internal Internal IP Internal port address Internal port	철 Add
> System > Logout		Apply	Save	
		JiNan Usr IOT Technology Limited http://www	v.pusr.com/	

Figure 40. Port forwards settings

6.2.2. DMZ function

DMZ function is a physical or logical subnet that separates a local area network (LAN) from other untrusted networks -- usually, the public internet.



Communication Expert of Indust	Be Hone	est, Do Best!
USR-G816 Status Services Naturack	Firewall - Port Forwards Port forwarding allows remote computers on the Internet to connect to a specific computer or service within the private LAN. Port Forwards Name Match Pulse Enswarding To Enable Set	
VPN VFirewall General Settings Port Forwards Traffic Rules	New Port Forwarding Rules: Protocol External External port Internal Internal IP Internal port	
Access Restrictions DTU System Logout	DMZ TCP+UDP v wan v lan v 192.168.1.15 v Add	
	JiNan Usr IOT Technology Limited http://www.pusr.com/	



6.3. Traffic rules

The Traffic Rules tab is a crucial feature of a firewall functionality that allows you to set rules to filter and control network traffic moving through the device. In essence, traffic rules determine which firewall rules will be applied to packets traveling through the network. These packets can be allowed, blocked, or rejected based on various criteria such as the source and destination IP addresses and port numbers specified in the packet headers.

Items	Description	Default
Enable	Whether to enable the traffic rules.	Disable
Name	The name of traffic rules.	None
Restrict to	IP address family to which to rule will apply.	IPv4 only
address family	It only supports IPv4 IP by now.	
Protocol	Choose the protocol of the traffic rules, including TCP+UDP, TCP, UDP, ICMP	TCP+UDP
Match ICMP type	Choose the ICMP type of the rules.	any
Source zone	The zone to which the third party will be connecting.	lan
Source MAC	MAC address(es) of connecting hosts.	any

Table 13. Parameter details of traffic rules



	The rule will apply only to hosts that match MAC addresses specified in this	
	field. Leave empty to make the rule skip MAC address matching.	
Source IP	IP address or network segment used by connecting hosts.	any
Source port	IP address or network segment used by connecting hosts.	None
Destination zone	Target zone of the incoming connection.	WAN
Destination IP	Tagert IP address or network segment of the incoming connection.	any
Destination port	Tagert port or range of ports of the incoming connection.	None
Action	Action that is to be taken when a packet matches the conditions of the rule.	Accept
	Drop: packet is stopped and deleted.	
	Accept: packet gets to continue to the next chain.	
	Reject: packet is stopped, deleted and, differently from Drop, an ICMP packet	
	containing a message of rejection is sent to the source from which the dropped	
	packet came.	
	Don't track: packet is no longer tracked as it moves forward.	

Communication Expert of Industri	ают
USR-G816 Status Services	Firewall - Traffic Rules Traffic rules define policies for packets traveling between different zones, for example to reject traffic between certain hosts or to open WAN ports on the router. Traffic Rules
VPN Firewall General Settings	Allow- Ping To any router IP on this device Accept input I Control Line Control Lin
Port Forwards Traffic Rules Access Restrictions DTU	Open ports on router: Name Protocol External port New input rule TCP+UDP
> System > Logout	New forward rule: Name Source zone New forward rule Ian Ian Image: Wan in the Wa
	Source NAT Name Protocol Action Enable So
	This section contains no values yet JiNan Usr IOT Technology Limited http://www.pusr.com/

Figure 42. Traffic rules settings interface

6.3.1. Open ports on router

This provides a quick way to set simple rules that allow traffic on specified ports of the device. The figure



below is an example of the Open ports on device section and the table below provides information on the fields contained in that section.

Items	Description	Default
Name	The name of the rule, user defined.	None
Protocol	Specifies to which protocols the rule should apply, including TCP+UDP, TCP,	TCP+UDP
	UDP.	
External port	Specifies which port(s) should be opened.	None

Table 14.	Parameter	details
-----------	-----------	---------

USR-G805	fic Rules			
Status	policies for packets traveling between different zones, for example to re	eject traffic between certain hosts	or to open WAN ports o	n the router.
> Services Traffic Rules				
> Network Name	Protocol	Action	Enable Sort	
VPN Firewall General Settings	IPv4-ICMP with type echo-request From any host in wan To any router IP on this device	Accept input		Edit Delete
Port Forwards Open ports on rout Traffic Rules Near	er:			
Custom Rules Access Restrictions Name	TCP+UDP V			
System Logout New forward rule:				
Name	Source zone Destination zone			
New forward rule	lan 🗸 wan 🗸 🖻 Add and edit			
Source NAT				
Name	Protocol		Action	Enable Sort
	This section contains	no values yet		

Figure 43.

6.3.2. Add new forward rule

This is used to create firewall rules that control traffic on the FORWARD chain. The figure below is an example of the Add New Forward Rule section and the table below provides information on the fields contained in that section.

Items	Description	Default
Name	The name of the rule, user defined.	None
Source zone	The zone from which traffic has originated.	lan
Destination zone	The zone to which traffic will be forwarded to.	wan

Table 15. Parameter details



USR-G805								
	Traffic Rules							
Status	Name		Protocol		Action	Enable	Sort	
Services		IPv4-10	CMP with type echo-request					
Network	Ping	To a	From any host in wan any router IP on this device		Accept input		•	Z Edit Delete
VPN								
Firewall	Open ports on router							
General Settings	Name	Protocol	External port					
Port Forwards	New input rule	TCP+UDP	~	🚵 Add				
Traffic Rules								
Custom Rules	New forward rule:							
Access Restrictions	Name	Source zone	Destination zone					
bystem	New forward rule	lan	🗸 wan 🗸 🖻 Ado	and edit				
logout								
	Source NAT							
	Name		Protocol				Action	Enable Sort

Figure 44. Add new forward rules

6.3.3. Source NAT

Source NAT (SNAT) is a form of masquerading used to change a packet's source address and/or port number to a static, user-defined value. SNAT is performed in the POSTROUTING chain, just before a packet leaves the device.

Up to 100 SNAT rules can be added.

Table 16.	Brief parameters of Source NA	Г
-----------	-------------------------------	---

Items	Description	Default
Name	The name of the rule, user defined.	None
Source zone	Matches traffic originated from the specified zone.	lan
Source zone	Matches traffic destined for the specified zone.	wan
To source IP	Matches traffic destined for the specified zone.	None
To source port	Matches traffic destined for the specified zone.	None



		to any router IP on this device							
USR-G805	Open ports on router:								
> Status	Name	Protocol External port							
> Services	New input rule	New input rule TCP+UDP 🗸							
> Network									
> VPN	New forward rule:								
✓ Firewall	Name Source zone Destination zone								
General Settings	New forward rule	lan 🗸 wan 🗸 🖻 Add and edit							
Port Forwards									
Traffic Rules	Source NAT								
Custom Rules	Name	Protocol	Action	Enable Sort					
Access Restrictions									
> System		This section contains no values vet							
> Logout		nns section contains no values yet							
	New source NAT:								
	Name	Source zone Destination zone To source IP To source port							
	New SNAT rule	lan v wan v Please chov Do not rewrite	Add and edit						

Figure 45. Settings of SourceNAT

Users need to fill in the basic information before clicking the "Add and edit" button, it will redirect you to the

rule's configuration page.

Communication Expert of Indust	rial IOT	Be Ho	onest, Do Best!
LISE-C816	This page allows you to cha	nge advanced properties of the traffic rule entry, such as matched source and destination hosts.	*
	Enable	Obsable	
> Status	Name	SNAT	
> Services	Protocol	TCP+UDP v	
> Network > VPN	Source zone	〇 lan: lan: 夏 素 魚	
✓ Firewall		wan: wan_wired: wan_5g: wan0:	
General Settings Port Forwards	Source IP address	any Only match incoming traffic from this IP or range.	
Traffic Rules Access Restrictions	Source port	any Match incoming traffic originating from the given source port or port range on the client host.	
> DTU > System > Logout	Destination zone	 Ian: [an: 2] 東京 wan_wired: 2] wan_5g: 22 wwan0: 愛 	
	Destination IP address	Destination ip or ip range.	
	Destination port	any Destination port or port range. 	
	SNAT IP address	172.16.10.136 (eth0) Rewrite matched traffic to the given address.	I
	SNAT port	8899 Rewrite matched traffic to the given source port. May be left empty to only rewrite the IP address.	
	J	iNan Usr IOT Technology Limited http://www.pusr.com/	· · · · · · · · · · · · · · · · · · ·

Figure 46. Detail settings of SourceNAT

Table 17.	Parameter	details o	of Source	NAT
-----------	-----------	-----------	-----------	-----

Items	Description	Default
Enable	Whether to turn on the rule.	Disable
Name	The name of the rule, user defined.	None



Protocol	Specifies to which protocols the rule should apply, including TCP+UDP, TCP,	TCP+UDP
	UDP, ICMP.	
Source zone	Matches traffic originated from the specified zone.	LAN
Source IP	Mathes traffic originated from specified IP address or network segment.	any
Source port	Mathes traffic originated from specified port number.	None
Destination zone	Mathes traffic originated from specified port number.	wan
Destination IP	Matches traffic destined for the specified IP address or network segment.	None
Destination port	Matches traffic destined for the specified port number.	None
SNAT IP	Changes matched traffic packet source IP address to the value specified in	None
	this field.	
SNAT port	Changes matched traffic packet source port number to the value specified	None
	in this field.	

6.4. Access restrictions

Access restrictions implement access restrictions on specified domain names, and support blacklist and whitelist settings for domain name addresses. When blacklist is selected, devices connected to the router cannot access the blacklisted domain names, and other domain name addresses can be accessed normally. When the whitelist is selected, the devices connected to the router can only access the domain names in the white list, and other domain names cannot be accessed normally. Both the blacklist and the whitelist can be set with multiple entries, and this function is disabled by default.

1150-0805							
031-0005	Access Restrictions	cess Restrictions					
Status	Enter the domain name keyword.Note: When setting the w revisit.	rhitelist, the PC may fail to visit the whitelist site for the first time due	to browser reasons. If the access fails, please				
Services							
Network	Configurations						
VPN	Method close	~					
✓ Firewall							
General Settings							
Port Forwards	Name	Domain Name	Enable				
Traffic Rules							
Custom Rules		This section contains no values yet					
Access Restrictions							
System	New Firewall Rule:						
Logout	Name	Domain Name					
	New rule		Add				
		Apply Save					

Figure 47. Access restrictions interface



6.4.1. Blacklist settings

First, select the blacklist, enter the name of the rule and the prohibited domain address, and then click Add, and the added rules will be displayed in the list. Click Apply and the rules take effect immediately. Devices connected to the router will not be able to access the domain address just added. If blacklist is selected but no rules are added, the default blacklist is empty, that is, all domain names can be accessed. As shown in the figure, except www.baidu.com and www.google.com, other domain names can be accessed normally.

USR IOT Communication Expert of Industrial IOT					Be Ho	onest, Do Best!
USR-G816 Status Services Network VPN Firewall General Settings Port Forwards Traffic Rules	Access Enter th If the ar	s Restrictions ee domain name keyword, such as www.baidu ccess fails, please revisit. purations Method Black List Name	Lcom.Note: When setting the whitelis	at, the PC may fail to visit the whitelist site Enable	for the first time due to browser reasons	
Access Restrictions DTU System Logout	New Fire	blacklist wall Rule:	www.google.com		Delete	
		Name New rule	Apply	Domain Name	Add	
		JiNan Usr IOT Techno	ology Limited http://www.p	pusr.com/		

Figure 48. Add blacklist rules

6.4.2. Whitelist settings

Select the whitelist, enter the name of the rule and the domain address that is allowed to be accessed, and then click Add, and the added rules will be displayed in the list. Click Apply and the rules take effect immediately. Devices connected to the router will not be able to access the domain address except the ones in the rule. If you select the whitelist but do not add a rule, the default whitelist is empty, that is, all domain address cannot be accessed. As shown in the figure, the device can access Baidu.



USR IOT Communication Expert of Industr	ਸ਼ੁਰੂ ਸਿੱਖ ਸਿੱਖ ਸਿੱਖ ਸਿੱਖ ਸਿੱਖ ਸਿੱਖ ਸਿੱਖ ਸਿੱਖ	onest, Do Best!
USR-G816	Access Restrictions	
> Status	Enter the domain name keyword, such as www.baidu.com.Note: When setting the whitelist, the PC may fail to visit the whitelist site for the first time due to browser reason If the access fails, please revisit.	s.
> Services > Network	Configurations	
> VPN	Method White List ~	
General Settings Port Forwards	Name Domain Name Enable	
Traffic Rules Access Restrictions	blacklist www.baldu.com	
> DTU > System	New Firewall Rule:	
> Logout	Name Domain Name	
	New rule	
	Apply Save	
	JINan Usr IOT Technology Limited http://www.pusr.com/	

Figure 49. Add whitelist rules

7. Additional services

7.1. PUSR Cloud

7.1.1. Add USR-G805s on PUSR Cloud

PUSR platform login address: https://mp.usriot.com/.

On USR-G805s side, users need enable the PUSR cloud first.



USR IOT Communication Expert of Industrial IOT		Be Honest, Do Bes
USR-G816	USR Cloud	
> Status	Usr Cloud	
✓ Services	enable 🛛	
USR Cloud		
DDNS		
Phtunnel	Configurations	
> Network	Traffic flow record interval 10	
> VPN	Ø less than 12 hours	
> Firewall	Traffic flow report interval 30	
> DTU	Not Claim annual internal 5	
> System	() less than 12 hours	
> Logout	Net Status report interval 20	
	less than 12 hours and less than 40 statistics cycles of net status	
	Heartbeat Interval 30 👻	
	11dn Configuration	
	oup contiguration	
	UDP Heartbeat Interval 20s 🗸	
	JiNan Usr IOT Technology Limited http://www.pusr.com/	

Figure 50. Enable the PUSR function of G805s

On PUSR cloud side, users can add USR-G805s on PUSR platform and monitor the status of USR-G805s.

*	USR Cloud Cons	ole									 service support user rig 	ihts 🚯 簡体中文 , 15588836112
83	Quick start	Gateway	r management > Gate	eway list								
2	Screen management/	Gatewa	ay list				Total Gate 6	eways Onl	ine gateway • Offline 6	gateway		
Ŷ	Scene management*	Pleas	e enter SN or ga	Query Advanced Sear	ch						Add Delete	Transfer gateway More
e	Device management						parameter los	Number of as			Single Add	
Ø	Gateway management		Gateway status	Gateway name	SN	Gateway model	k	ces	Firmware Version	Belonging organize	Ga Batch Add	Operation
	Gateway list		Waiting for the initi	未命名_网关名称_54	00005450000000000004	未知型号	-	1	-	根组织	Seattle, Washington, United States	View Edit Delete More
	Batch configuration		Offline	USR-G816	01302323060800000979	USR-G816w-G	-	0	V1.0.10.wifi-EN	PUSR	美莲广场, Jinan Shi, Shandong 2501	View Edit Delete More
-	Configuration	-	Waiting for the initi	Unnamed Gateway na	000054500000000000003	专利刑局	_	0	_	PUSR	山车省济南市历下区油顺路	View Edit Delete More
8	management	~	Walling for the initi	Unnamed Cateway na	000054500000000000	土印刷品	9-2 1	0	5.194 	DUPP		View Edit Delete Mare
<u>111</u>	Data center V		waiting for the inte	ton There a	0000343000000000000	*****		0	-	PUSK		View Edit Delete Wore
₫	Alarm linkage 🛛 🗡		Offline	未茚省_购大省称_84	01301822120100009921	USK-G806S-EAU	-	0	V1.0.03.C165818.01-E	物的目的只	山东省济南市历下区理顺路	View Edit Delete More
۲	Value-Added services	_	Offline	USR-M100	02700123031600055984	USR-M100		1	V2.0.03.000000.0000	根组织	Swatch Jinan Mixc, East Jingshi Ro	View Edit Delete More
▣	Maintenance management										Total 6 10/page V Pre	1 Next Go to 1
۲	Extend ~											
Ŀ												
	100.01											
	V6.0.1	-										

Figure 51. Add device on PUSR cloud



☆	USR Cloud Conso	ble	O service support	😲 user rights	🚯 簡体中文	15	588836112
	Quick start	Gateway management > Gateway list > Add Gateway					
ē	Screen management	Add Gateway					
	Scene management⁄	Please note that there are duplicate gate way names (which will not affect the subs					
୯	Device management	equent steps, and you can continue to ad d gateways)					
Ð	Gateway management	* Belonging organize PUSR V					
	Gateway list	* SN () 0130232 SN does not support, click here					
	Batch configuration	* MAC / IMEI 868371					
M	Configuration management	Positioning method 🧿 Manual positioning 🦳 Automatic positioning					
щ	Data center 🛛 🗸	Gateway address 1221 4th Avenue, Seattle, Washington 98101, United States Map					
۵	Alarm linkage 🛛 🗸	Tag 💿 🛛 Add tags					
Ø	Value-Added services						
▣	Maintenance management	Network 🕼 🦲					
\$	Extend ~	Data transparency 💿 🕕					
Ŀ	loT						
		Save					
	V6.0.1						

Figure 52. Enter the information of USR-G805s

○ dock stat ○ scree management ○ borker management ○ b	术	USR Cloud Conso	ble									 O service support ♥ user rig 	hts 🚯 简体中文	15588836112
 Screen management Screen management Screen management Screen management Screen management Screen management Martine factore Name Markagement Nam		Quick start	Gateway	management > Gat	eway list									
 Conservational Conservation Conse	2	Screen management/	Gatewa	ay list				Total Gater 5	vays • Onlin 1	e gateway • Offline 4	gateway			
Pervice management Gateway status Gateway name SN Gateway model Parameterico Configuration Primoare upgrade Waiting for the inst Unamed_Gateway name Obta center Obta center Value-Added service Marketranco management Imagement Imagement <th></th> <th>Scene management*</th> <th>Pleas</th> <th>e enter SN or ga</th> <th>Query Advanced Sean</th> <th>ch</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Add Delete</th> <th>Transfer gateway</th> <th>More</th>		Scene management*	Pleas	e enter SN or ga	Query Advanced Sean	ch						Add Delete	Transfer gateway	More
Bichic configuration Firmware upgrade Configuration	e I	Device management' Gateway management		Gateway status	Gateway name	SN	Gateway model	parameter loc k	Number of as sociated devi ces	Firmware Version	Belonging organize	Gateway address	Operation	
Firmware upgrade ● Waiting for the init Unnamed_Gateway na 000054500000000000 非知思号 - 0 - PUSR ① Data center ● Offine 東金美麗笑紫ఄఄ 0100152212010000921 USR-G8066-EAU - 0 - PUSR ② Data center ● Offine USR-M100 0270123031600055984 USR-M100 - 0 V1.0.0-EN #BER ● Maintonance ● Offine USR-M100 0270123031600055984 USR-M100 - 1 V2.0.0.00000.0000 #BER ● Lond ● Extend ● <th></th> <th>Batch configuration</th> <th></th> <th>Online</th> <th>USR-G816</th> <th>01302323060800000979</th> <th>USR-G816w-G</th> <th>-</th> <th>0</th> <th>V1.0.10.wifi-EN</th> <th>PUSR</th> <th>美莲广场, Jinan Shi, Shandong 2501</th> <th>View Edit C</th> <th>elete More</th>		Batch configuration		Online	USR-G816	01302323060800000979	USR-G816w-G	-	0	V1.0.10.wifi-EN	PUSR	美莲广场, Jinan Shi, Shandong 2501	View Edit C	elete More
Configuration Imanagement		Firmware upgrade		Waiting for the init	Unnamed_Gateway na	00005450000000000003	未知型号		0	-	PUSR	山东省济南市历下区坤顺路	View Edit C	elete More
11 Data center ・	2	Configuration management		Waiting for the init	Unnamed_Gateway na	00005450000000000001	未知型号	-	0	-	PUSR	山东曾济南市历下区坤顺路	View Edit E	elete More
Atarm Inhage Image	щ	Data center 🗸 🧹		Offline	未命名_网关名称_84	01301822120100009921	USR-G806s-EAU	-	0	V1.0.06-EN	根组织	山东省济南市历下区坤顺路	View Edit E	elete More
O Value-Added services Images and the services ``	≞	Alarm linkage 🛛 👻		Offline	USR-M100	02700123031600055984	USR-M100	-	1	V2.0.03.000000.0000	根组织	Swatch Jinan Mixc, East Jingshi Ro	View Edit C	elete More
Image: Second secon		Value-Added services										Total 5 10/page \vee Pre	1 Next Go	to 1
Sectored V	▣	Maintenance ~ management												
τοτ 🖸	\$	Extend 🗸												
		107												

Figure 53. Online status

7.1.2. Gateway Information

Click "Gateway Name", it will guide you to a new page showing the detail of the USR-G805s.



☆	USR Cloud Cons	le	介 service support ♥ user rights
	Quick start	Gateway management > Gateway list > Gateway Details	
집	Screen management/	Gateway Details Network debugging Parameter configuration	
	Scene management*	Gateway infomation	
୯	Device management	USR-G816	
Ð	Gateway	013023206660000979	
	Gateway list	Belonging organize: PUSR Gateway model: USR-G816W-G Gateway address: 美运广场, Jinan Shi, Shandong 250101, China MAC: D4AD2067FC15	Bettery level: Networking type: Ethernet
	Batch configuration	Tag: DMEI: 868371050583497 NID:	signal intensity: —
	Firmware upgrade	Firmware Version: V1.0.10.wifi-EN Hardware version: V1.0	
2	Configuration management	Gateway traffic monitoring	
ш	Data center 🛛 🗸		
≞	Alarm linkage 🛛 👻	O 2023-08-13 19:27:51 To 2023-08-14 19:27:51 Cuttery	
	Value-Added services	-O- Main gateway(-)	
▣	Maintenance ~ management	by us / ku	
\$	Extend Y		
Ŀ			
	V6.0.0		

Figure 54. Check gateway information

Users can also send AT command to query parameters of USR-G805s

☆	USR Cloud Conso	le	O service support	🜒 user rights	③ 简体中文	()	15588836112
\mathbb{S}	Quick start	Gateway management (>) Gateway list (>) Gateway Details					
ē	Screen management	Gateway Details Network debugging Parameter configuration					
Ŷ	Scene management*	General information					
G	Device management	Gateway USR-6816 Gateway 01302323060800000979					
Ð	Gateway ^ management	name: SN: Belonging PUSR Gateway USR-6816w-6 organize: model:					
	Gateway list	Firmware V1.0.10.wifi-EN					
	Batch configuration	version:					
	Firmware upgrade	Parameter debugging					
	Configuration	+\$N.0130232306600000979					
ш	Data center 🛛 🗸	AT-VER					
۵	Alarm linkage 🛛 🗸						
3	Value-Added services						
▣	Maintenance 🗸 🗸	+WANN DHCP.172.16.10.136,0.0.0				6	桂Q入
\$	Extend 🗸	×				Č	-
Ŀ	IoT	useful Gateway restart Ouery version Reload to factory settings				G	23
		AT+WANN					
		Send					
	V6.0.0						

Figure 55. Parameters query and config

7.1.3. Remote access

After the USR-G805s is launched on the PUSR platform, you can remotely log in to the built-in webpage through



the PUSR platform to view and modify parameters.

≮	USR Cloud Conse	ole									 O service support ♥ user rig 	hts 🚯	简体中文 🍈 15588836112
53	Quick start	Gateway	management > Gate	eway list									
ē	Screen management	Gatewa	y list				Total Gatev 5	vays • Onlin	e gateway • Offline •	gateway			
Ø	Scene management*	Pleas	e enter SN or ga	Query Advanced Searc	h						Add Delete	Transfe	r gateway More
e ₽	Device management? Gateway management		Gateway status	Gateway name	SN	Gateway model	parameter loc k	Number of as sociated devi	Firmware Version	Belonging organize	Gateway address	Operati	ion
	Gateway list		Online	USR-G816	01302323060800000979	USR-G816w-G	-	0	V1.0.10.wifi-EN	PUSR	美莲广场, Jinan Shi, Shandong 2501	View	Edit Delete More
	Firmware upgrade		Waiting for the initi	Unnamed_Gateway na	00005450000000000003	未知型号	-	0	-	PUSR	山东省济南市历下区坤顺路	View	Disable
	Configuration ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Waiting for the initi	Unnamed_Gateway na	00005450000000000001	未知型号	-	0	-	PUSR	山东省济南市历下区坤顺路	View	Configuration page
ш	Data center 🛛 🗸	× -	Offline	未命名_网关名称_84	01301822120100009921	USR-G806s-EAU	~	0	V1.0.06-EN	根组织	山东省济南市历下区坤顺路	View	Firmware Upgrade Reboot gateway
۵	Alarm linkage 🛛 🗡		Offline	USR-M100	02700123031600055984	USR-M100	-	1	V2.0.03.000000.0000	根组织	Swatch Jinan Mixc, East Jingshi Ro	View	
0	Value-Added services										Total 5 10/page v Pre	1	Next Go to 1
▣	Maintenance ~ management												
♦	Extend ~												
Ŀ	loT												
	V6.0.0												

Figure 56. Login configuration page

USR-G816	
Communication Expert of Industrial IOT	Be Honest, Do Best!
	Authorization Required
	rease enter you username and password.
	Username: root
	Login Reset
JiNar	Usr IOT Technology Limited http://www.pusr.com/

Figure 57. Login page

7.1.4. Firmware upgrade

Users can also upgrade firmware via PUSR platform.



术	USR Cloud Cons	ole								○ service support ♥ user rig	nts 🔇 简体中文 🌀	15588836112
		Gateway	management > Gat	eway list								
		Gatewa	ay list				Total Gateways • Online gate	way Offi	ne gateway			
			e enter SN or ga	Query Advanced Sean	ch	Firmware Upgrad	e	×		Add Delete	Transfer gateway	More
						* Task Name	Firmware Upgrade					
			Gateway status	Gateway name	SN	* Gateway name	USR-G816		Belonging organize	Gateway address	Operation	
			Online	USR-G816	013023230	* Gateway model	USR-G816w-G		PUSR	美莲广场, Jinan Shi, Shandong 2501	View Edit Delete	More
			Waiting for the initi	Unnamed_Gateway na	0000545000	* Firmware	Pelase ChooseFirmware Upgrade Version		PUSR	山东省济南市历下区坤顺路	View Edit Delete	More
			Waiting for the initi	Unnamed_Gateway na	0000545000	Upgrade Version			PUSR	山东省济南市历下区坤顺路	View Edit Delete	More
			Offline	未命名_网关名称_84	013018221;	* Task Time	© 2023-08-14 19:34:48 T 2023-08-15 19:34:48 o		根组织	山东省济南市历下区埠顺路	View Edit Delete	More
			Offline	USR-M100	027001230:		Cancel	OK	根组织	Swatch Jinan Mixc, East Jingshi Ro	View Edit Delete	More
							Guinda			Total 5 10/page V Pre	1 Next Go to	1
	V6.0.0	-										

Figure 58. Firmware upgrade function

7.1.5. Alarm settings

>Add alarm trigger type, for USR-G805s, we add "Gateway monitoring trigger".

*				🔿 service support 🛭 😗 user rights 🚷 简体中文 <table-cell> 1558883611</table-cell>
		Alarm linkage 👂 Gateway Monitoring Triggers		
		Gateway Monitoring Triggers		
			Add Trigger ×	2. Add Bulk Deletion
			3.	
		Trigger Name Belongin	Update time	Operation
			* Belonging PUSR V	
			organice	
			Alarm rule The device is offline.	Total 0 10/page > Pre 1 Next Go to 1
			description 22 / 60	
		<	* Alarm Rules 🛂 Offline time of galeway> 5 minute	
	Independent trigger			
			Gateway 10 minutes,lost 5 Times	
	Alarm settings			
			Wireless signal intensity < weak <	
			Flow of current month > 1024 MB/1GB=1024MB)	
	Value-Added services			
			Bettery level < 20 %(Products with built-in batteries)	
			Gateway power failure aiarm (only some product models are supported, please r efer to the product manual or consult relevant personnel for details)	
			Cancel 4.	

Figure 59. Add alarm trigger type

≻Add alarm contacts and verify email.



术	USR Cloud Conso	ble					O service support 0 user rights	😗 简体中文 💮 15588836112
	Quick start	Alarm linkage > Alarm contacts						
	Screen management/	Contacts						
	Scene management ^y	Please select organ 🔗 Please enter contact name email	Add Contact		×		2.	Add Bulk Deletion
	Device management	Contact name Belon	3.			dd people	Update time	Operation
	Gateway ~ management		* Contact name	Testusers	Associated User			
	Configuration \checkmark		* Please select	PUSR				
	management		organization				Total 0 10/page - Pre 1	Next Go to 1
	Data center 🛛 🗸							
	Alarm linkage 🔿		Email	liuren en al ann an				
	Township biogene		Emoil	Plassa land Varification Code	T			
		<	Verification	Cet Code Get Code				
	Independent trigger		Code					
	Gateway Monitoring Tridders							
	Alarm settings		Remark	Please Input Remarks				
	Alarm contacts				4			
	Value Added convicted			Cancel	4.			
	Mainter and a services							
	management							
	Extend 🗸							
	IoT							
	V6.0.0							



≻Add alarm configuration

*									简体中文 简称中文 简称 简称
	Quick start	Alarm linkage 🗇 Alarm settings							
	Screen management/	Alarm settings							
	Scene management*	Please select organ 🔗 🛛 All Types 🔗 Please inpu	AddAlarm Con	figuration	×				Add Bulk Deletion
	Device management	Alarm configuration name Belonging organize	* Alarm	Offlinetest	ilsm	Status	Founder	Update time	Operation
	Gateway 🗸 🗸	con	nfiguration name						
	Configuration ~~ management		* Belonging	PUSR			Total 0 10	Inner I Dro.	Next Cata 1
	Data center 🛛 🗸		orguni20				Totar U		
	Alarm linkage 🔷		* Push type	trigger 🗸 🗸					
	Template triggers	2	* Select trigger	Gateway detection trigger \lor Offline \times \lor					
	Independent trigger		* Pushina	Value of the variable reaches the trioger condition					
	Gateway Monitoring Tridders		mechanism	Pushing only first time					
	Alarm settings			Alarm silence time minute @					
	Alarm contacts								
	Value-Added services		* Push method	Email					
	Maintenance ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		* Pusher	Check All					
	Extend ~			Testusers(PUSR)					
	ΙοΤ								
	V6.0.0								

Figure 61. Add alarm configuration

≻Check the alarm email: Power off the USR-G805s



7.2. DDNS

It's disabled by default.

JSR-G805 Dynamic DNS	
Dynamic DNS configuratio	on allows access to a fixed domain for the host, but the corresponding IP may be dynamic.
Services Configuration	
USR Cloud Enable	•
SSH Port Event interface	e cellular O Network on which the ddns-updater scripts will be started
SNMPD Service	e dyndins.org v @ Service provider
Network Username	a username
VPN Password	a Ø
System Domain Name	a
Logout Sync Time	a 300 @ Unit:s, 30-65535
Forced Update Time	a 86400
	Apply Save

Figure 62. DDNS function

7.3. SSH function

This function is in developing.

7.4. SNMPD

The G805s supports the Simple Network Management Protocol (SNMP) service. You can use SNMP to remotely view device information and monitor device status without going to the site one by one. The device supports SNMP version V2C and V3.

SNMPD Configuration	n de la constante d
SNMPD is a master daemon	r/agent for SNMP, from the net-snmp project.
Services Enable SNMP	
USR Cloud	
Enable SNMP DDNS	
SSH Port	
SNMPD User Info (use for snm	pv3)
SMS	user
Network	
VPN auth type	auth 🗸
Firewall auth mode	SHA 🗸
System auth passwd	······
Logout	
Curtam Info	
System mo	
sysLocation	JiNan
sysContact	www.pusr.com
sysName	Smart_Router



Items	Description	Default
Enable SNMP	Whether to enable SNMP.	Disable
username	The name assigned to an SNMP user	user
auth type	Auth or auth-enc	auth
auth mode	SHA or MD5	SHA
auth passwd	The encryption password used as the encryption private key	authpass
sysLocation	The location of the device	JiNan
sysContact	The contact of USR-G805s	www.pusr.com
sysName	The system name of USR-G805s	Smart_Router

7.5. SMS

7.5.1. SMS AT function

This router support SMS function. After enabling the function, users can send AT command from SMS to check and to set parameters of USR-G805s.

SMS Authorization Mode is all, the router can receive the SMS command from any phone number and do the action. Users can also set specific phone number, and the router just receive SMS command from authorized phone numbers, it supports add up to 5 phone numbers.

Note: When the user changes the SIM card by SMS command, special attention should be paid to ensure that the SIM card can be normally connected to the network. If the user switches to the SIM card that cannot be connected to the network after executing the SIM switching command, the device will not be able to be connected to the network, and it will no longer be able to query and set parameters through SMS command, thus losing contact with the device.

USR IOT Communication Expert of Industrial IOT		Be Honest, Do Best _{English∣‡}
USR-G805 Status Services USR Cloud DDNS SSH Port SNMPD SMS Network VPN Firewall System Logout	Short Message Service Users can control their devices by sending text messages. Config Configuration SMS Enable C Once selected, the SMS function is enabled SMS Authorization Mode III Only receive text messaget from authorized phone numbers Only receive text messaget from authorized phone numbers	

Query and set parameters of router.





7.5.2. SMS sending

This router support sending message to specified number, and can also record the sent message and received message content on the page, so users can check the

	SHS Autionzation mode	an •	
LISP-G805		Only accept SMS AT commands from authorized photon	one numbers
031 0005	SMS Send		
	onto octiva		
> Status	Receiver Number	15	
✓ Services		The process must be 1 to 20 digits long,	optionally starting with a '+' sign to indicate an international number.
USR Cloud	Content	message testing	
DDNS			
SSH Port		Please enter your information in this box, You ca	n input up to 70 characters.
CNIMPD		Send	
SINNED		"	
SMS	SMS Receiving Record		
> Network	Sende ber	Time	Content
> VPN	+8615 2	2024-09-09 02:41:00	AT+ver
> Firewall	+8615	2024-09-09 02:42:09	AT+VER.
> System	+8615	2024-09-09 02:42:29	AT+IMEI
> Logout	+8615	2024-09-09 02:43:44	AT+DUALSIMMODE
	+8615	2024-09-09 02:43:48	AT+IMEI
	+8615	2024-09-09 02:43:59	AT+VER
	+8615 +8611	2024-09-09 02:43:59 2024-09-09 02:44:20	AT+VER AT+CPIN
	+8615 +8611 +861558	2024-09-09 02:43:59 2024-09-09 02:44:20 2024-09-09 02:44:45	AT+VER AT+CPIN AT+SYSINFO
	+8615 +8611 +861558 +861558	2024-09-09 02:43:59 2024-09-09 02:44:20 2024-09-09 02:44:45 2024-09-09 02:45:09	AT+VER AT+CPIN AT+SYSINFO AT+LANN





8. AT Command

8.1. AT command set

Number	Name	Function
1	AT	Test AT command available
2	AT+R	Restart the device
3	AT+CLEAR	Factory data reset
4	AT+VER	Query firmware version
5	AT+MAC	Query current device wan port MAC
6	AT+APN	Query or set 4G APN information
7	AT+SN	Query Device SN
8	AT+CSQ	Query Device 4G Signal Strength
9	AT+CPIN	Inquiry SIM card status
10	AT+IMEI	Query Equipment IMEI
11	AT+ICCID	Inquiry SIM ICCID
12	AT+MCCMNC	Inquiry SIM card CIMI
13	AT+SYSINFO	Query operator and network model
14	AT+CELLULAR	Query the network mode of the device (dedicated to
		cloud)
15	AT+NETMODE	Query resident network mode
16	AT+WEBU	SearchWebLogin User Name Password
17	AT+PLANG	Query web landing language
18	AT+UPTIME	Query system runtime
19	AT+WANINFO	Query WAN network card information
20	AT+DIALINFO	Query 4G network card information
21	AT+LANINFO	Query LAN card information



22	AT+WANN	Query WAN Port Configuration
23	AT+LANN	Query LAN port configuration
24	AT+LAN	Query/Set LAN Port Configuration
25	AT+PING	Execute ping command
26	AT+NETSTATUS	Query default routing using NIC
27	AT+ALYSIMSWITCH	Query/Switch Operators
28	AT+DUALSIMMODE	Query/set the switch mode and active SIM card

8.2. Description of AT command

8.2.1. AT

name	AT
function	Test AT command
inquire	AT
	ОК
set	not have
parameter	Return: OK
explain	The command takes effect immediately, and returning OK means that the AT command is OK.

8.2.2. AT+R

name	AT+R
function	restart the device
inquire	not have
set	AT+R OK
parameter	not have
explain	The command is executed correctly, OK is replied and the device restarts

8.2.3. AT+CLEAR

name	AT+CLEAR
function	factory data reset
inquire	not have
set	AT+CLEAR
parameter	not have
explain	This command is executed correctly and the device is factory restarted without recovery.

8.2.4. AT+VER

name	AT+VER
function	Query device software version number



inquire	AT+VER
	+VER: <ver></ver>
set	not have
parameter	ver: Current software version number
explain	This command executes correctly and returns the current software version number.

8.2.5. AT+MAC

name	AT+MAC
function	Query WAN port MAC
inquire	AT+MAC
	+MAC: <mac></mac>
set	not have
parameter	mac:WAN port MAC
explain	

8.2.6. AT+APN

name	AT+APN
function	Query or setAPNinformation
inquire	AT+APN
	+APN: <apn_name>,<user>,<pw>,<type></type></pw></user></apn_name>
set	AT+APN= <apn_name>,<user>,<pw>,<t< td=""></t<></pw></user></apn_name>
	ype> OK
parameter	apn_name:
	apn address, can be empty. [0-62] field,support character range
	[a-zA-Z0-9#@]
	user: username, can be empty [0-62] bytes, ASCII
	characters within [33-126] pw: password, can be empty
	[0-62] bytes, ASCII characters within [33-126]
	type: authentication mode, none/pap/chap
explain	This command is executed correctly, and the configuration takes effect after the device is restarted.

8.2.7. AT+SN

name	AT+SN
function	Query device SN information
inquire	AT+SN
	+SN: <sn></sn>
set	not have
parameter	sn:20 bit sn code
explain	



8.2.8. AT+CSQ

name	AT+CSQ
function	Query Device 4G Signal Strength
inquire	AT+CSQ
	+CSQ: <csq></csq>
set	not have
parameter	csq: cellular signal value
explain	not have

8.2.9. AT+CPIN

name	AT+CPIN
function	Query SIM card status
inquire	AT+CPIN
	+CPIN: <cpin></cpin>
set	not have
parameter	cpin:SIM card status value
explain	

8.2.10. AT+IMEI

name	AT+IMEI
function	Query Equipment IMEI
inquire	AT+IMEI
	+IMEI: <imei></imei>
set	not have
parameter	imei: Equipment IMEI number
explain	

8.2.11. AT+ICCID

name	AT+ICCID
function	Inquiry SIM ICCID
inquire	AT+ICCID
	+ICCID: <iccid></iccid>
set	not have
parameter	ICCID:SIM card ICCID number
explain	

8.2.12. AT+MCCMNC

name	AT+MCCMNC
function	Inquiry SIM card CIMI
inquire	AT+MCCMNC
	+MCCMNC: <cimi></cimi>
set	not have
parameter	cimi:SIM card cimi number



explain	e		
---------	---	--	--

8.2.13. AT+SYSINFO

name	AT+SYSINFO
function	Query SYSINFO information
inquire	AT+SYSINFO
	+SYSINFO: <ops_operate>,<ops_net_type></ops_net_type></ops_operate>
set	not have
parameter	ops_operate: operator information
	ops_net_type: network mode
explain	

8.2.14. AT+CELLULAR

name	AT+CELLULAR
function	Query resident network mode
inquire	AT+CELLULAR
	+CELLULAR: <ops_net_type></ops_net_type>
set	not have
parameter	ops_net_type: network mode
explain	

8.2.15. AT+NETMODE

name	AT+NETMODE
function	Query resident network mode
inquire	AT+NETMODE
	+NETMODE: <type></type>
set	not have
parameter	type: cellular network standard
explain	

8.2.16. AT+WEBU

name	AT+WEBU
function	LoginUser name Password
inquire	AT+WEBU
	+WEBU: <user>,<pw></pw></user>
set	not have
parameter	User:Web login User name
	pw:web login password
explain	

8.2.17. AT+PLANG

AT+PLANG

name



function	Query web landing language
inquire	AT+PLANG
	+PLANG: <plang></plang>
set	AT+PLANG= <pl< td=""></pl<>
	ang> OK
parameter	plang:zh_cn/en
	zn_cn: Chinese
	en: English
explain	

8.2.18. AT+UPTIME

name	AT+UPTIME
function	Query system runtime
inquire	AT+UPTIME
	+UPTIME: <time></time>
set	not have
parameter	time
explain	

8.2.19. AT+WANINFO

name	AT+WANINFO
function	Query WAN network card information
inquire	AT+WANINFO
	+WANINFO: <mac> <ip> <mask> <rx_packets> <tr_packets< td=""></tr_packets<></rx_packets></mask></ip></mac>
	> <rx_bytes> <tx_bytes></tx_bytes></rx_bytes>
set	not have
parameter	mac: wan mac
	ip:wan IP card
	mask:wansubnet
	maskrx_packets:
	number of packets
	received
	tr_packets:
	number of
	packetssent
	rx_bytes: received
	traffic
	tx_bytes: send traffic
explain	



8.2.20. AT+DIALINFO

name	AT+DIALINFO
function	Query 4G network card information
inquire	AT+DIALINFO
	+DIALINFO: <mac> <ip> <mask> <rx_packets> <tr_packets>< rx_b ytes> <tx_bytes></tx_bytes></tr_packets></rx_packets></mask></ip></mac>
set	not have
parameter	Mac:4G MAC
	ip:4G IP card
	mask:4GNIC
	subnet maskrx_
	packets: number of
	packets received
	tr_packets: number
	of packets sent
	rx_bytes: receive
	traffic
	tx_bytes: send traffic
explain	

8.2.21. AT+LANINFO

	-
name	AT+LANINFO
function	Query LAN card information
inquire	AT+LANINFO
	+LANINFO: <mac> <ip> <mask> <rx_packets> <tr_packets>< rx_b ytes> <tx_bytes></tx_bytes></tr_packets></rx_packets></mask></ip></mac>
set	not have
parameter	mac:LAN card mac
	ip:LAN card IP
	mask:LAN card subnet mask
	rx_packets: Number of packets received
	tr_packets: Number of packets sent
	rx_bytes: receive traffic
	tx_bytes: send traffic
	Note:
	If VLAN is configured, this command returns LAN information
explain	



8.2.22. AT+WANN

name	AT+WANN
function	Query WAN Port Configuration
inquire	AT+WANN
	+WANN: <type>,<ip>,<mask>,<gateway></gateway></mask></ip></type>
set	not have
parameter	type:WANport
	protocol
	typeip:WANIP
	mask:WAN subnet mask
	gateway:WAN gateway
explain	

8.2.23. AT+LANN

name	AT+LANN
function	Query LAN port configuration
inquire	AT+LANN
	+LANN: <ip>,<mask></mask></ip>
set	not have
parameter	ip:LAN IP
	mask:LAN subnet mask
	Note:
	If VLAN is configured, this command returns LAN
	information
explain	

8.2.24. AT+LAN

name	AT+LAN
function	Query/Set LAN Port Configuration
inquire	AT+LAN
	+LAN: <ip>,<mask></mask></ip>
set	AT+LAN= <ip>,<mask></mask></ip>
parameter	ip:LAN IP Standard IP address format x.x x:[0-255]
	mask:LAN subnet mask x.x.x.x x:[0-255] conforms to subnet mask standard format
	Note:
	If VLAN is configured, this command returns LAN information
explain	

8.2.25. AT+PING

name AT+PING



function	Execute ping command
inquire	not have
set	AT+PING= <ip></ip>
	PING IP(IP): 56 data bytes
parameter	ip:IP or domain name, cannot be null, invalidpingparameter,e.gc1 invalid Limitations [1-200)
	Note: Parameters can only be associated with IP or domain names
explain	

8.2.26. AT+NETSTATUS

name	AT+NETSTATUS
function	Query default routing using NIC
inquire	AT+NETSTATUS
	+NETSTATUS: <net></net>
set	not have
parameter	net: Internet card status at this time
explain	

8.2.27. AT+ALYSIMSWITCH

name	AT+ALYSIMSWITCH
function	Query/Switch Operators
inquire	Send:AT+ ALYSIMSWITCH[= Carrier Type>]
	Return to: stat>
set	not have
parameter	Carrier type: CMCC/CUCC/CTCC
	CMCC:
	Mobile
	CUCC:
	Unicom
	стсс:
	Telecom state:OK/+NONE
	Return OK means successful setting and start switching (does not mean successful switching)
explain	If you do not use Cloud Eagle Card, please do not send this command.

8.2.28. AT+DUALSIMMODE

name	AT+DUALSIMMODE
function	Query/set the switch mode and active SIM card
inquire	Send:AT+ DUALSIMMODE
	Return to: +DUALSIMMODE: <dualsim_mode>[,<sim_fixed>]</sim_fixed></dualsim_mode>



set	AT+DUALSIMMODE= <dualsim_mode>[,<sim_fixed>]</sim_fixed></dualsim_mode>
	ОК
parameter	dualsim_mode:
	Master:Master standby mode
	Mutual:Mutual standby mode
	Manual: Manual mode
	sim_fixed:
	sim1: sim1 is active
	sim2: sim2 is active
explain	

9. Contact Us

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USR-G805 User Manual

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