

User Manual

---Apply to WL-G200 Series 4G+/4G Router

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Hardware Installation

This chapter is mainly for installation introduction, there would be some difference between the scheme and real object. But the difference won't have any influence to products performance.

1.1 Panel

WLINK Tech.	G200 series					
Front	WHF12 O O O WHF11 WLAN WAN LAN Cellular					
Rear	V+ V- GND RX TX /A /B					

Table 1-1 WL-G200 Structure

NOTE

There are some difference on Antenna interface and indicator light for the device with extended Wi-Fi, GPS features.

Port	Instruction	Remark
USIM	Plug type SIM Slot, support 1.8/3V/5V automatic detection.	
4G	LTE antenna, SMA connector, 50Ω.	
Aux/GPS	LTE MIMO antenna/GPS optional	
Wi-Fi1	Wi-Fi dual-band antenna, SMA connector	
Wi-Fi2	Wi-Fi dual-band antenna, SMA connector	
LAN	100/1000Base-TX,MDI/MDIX self-adaption.	

Table 1-2 Router Interface



Port	Instruction	Remark
WAN/LAN	100/1000Base-TX,MDI/MDIX self-adaption.	Default as LAN
Reset	Reset button, (press on button at least 5 seconds)	
PWR	Power connector	7.5~32VDC
DC	V+ and V-	
Serial Port	Rx, Tx and GND	



1.2 LED Status

silk-screen	Indicator		Note
	Color	Green	Good Signal
	COIOI	Red	Poor Signal
NET		Quick Blinking (0.5s)	Offline
	Status	Slow Blinking (1.5s)	3G online
		Solid light	4G online
	Green	Solid light	WLAN port open, but no data sending.
WLAN	Green	Blinking quickly	Data is in transmitting
	Green	Extinguished	WLAN port isn't opened
	Green	Solid light	Connection ok
LAN	Green	Blinking	Data Sending
	Green	Extinguished	Not connection

Table 1-3 Router LED indictor Status

1.3 Dimension

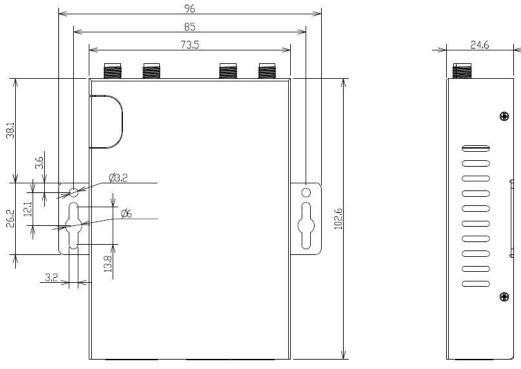


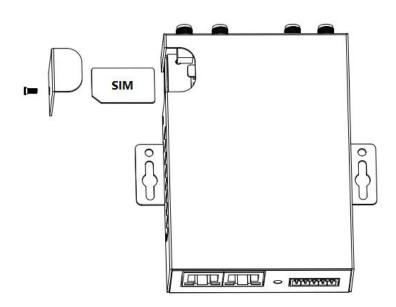


Figure 1-2 G200 Series Router Dimension

1.4 How to Install

1.4.1 SIM/UIM card install

Please insert the dual SIM cards before configure the router.





Before connecting, please disconnect any power resource of router

1.4.2 Ethernet Cable Connection

Connect the router with a computer by an Ethernet cable for GUI configuration, or transit by a switch.

1.4.3 4G and Wi-Fi Antenna Plug

Connect the two magnetic 4G antennas to Main and Aux interfaces, and the two paddle shape Wi-Fi antennas to Wi-Fi1 and Wi-Fi2 interfaces.



Wi-Fi antenna supports dual-band 2.4G and 5G band.

1.4.4 Serial Port (Terminal block) Connection

The serial port supports alternative RS232/RS485 port, and RS232 port as default. It might be requested serial port for RS485 when place order. The serial port feature supports TCP/UDP client/server as optional, also supports Modbus protocol. You may check the feature in Serial App of Advanced Network



UI. Below is RS232 connection sequence as reference.

Pin	Instruction	Remark
1	V+	Power V+, Anti reverse
2	V-	Power V-
3	GND	GND for RS232 communication
4	RXD/A	RS232 RXD, 57600bps as default
5	TXD/B	RS232 TXD, RS485 optional
V+ V- GND RX TX /A /B		



The serial port will be unavailable in WL-G200 standalone GPS model.

1.4.5 Power Supply

Voltage input range: +7.5~32VDC. (Extended models: 7.5~ 48VDC)

1.4.6 Review

After insert the SIM/UIM card and connect Ethernet cable and antenna, connect power supply adaptor or power cable.

CAUTION

Please connect the antenna before power on, otherwise the signal maybe poor because of impedance mismatching.

Notice:

- Step 1 Check the antenna connection.
- Step 2 Check SIM/UIM card, confirm SIM/UIM card is available.
- Step 3 Power on the industrial Router

----END





WL-G200 Series routers support GUI and CLI configuration. This chapter introduce GUI configuration via Ethernet port, if need CLI configuration guide, please contact our technical support department by email: support@wlink-tech.com.

2.1 Local Configure

The router supports to be configured by local Ethernet port, you could specify a static IP or set as DHCP. The default IP address is 192.168.1.1, subnet mask is 255.255.255.0, please refer to following.

Step 1 Click "start > control panel", find "Network Connections" icon and double click it to enter, select "Local Area Connection" corresponding to the network card on this page. Refer to the figure below.



Figure 2-1 Network Connection

- Step 2 Obtain a IP address automatically or set up IP address,192.168.1.xxx(XXX can be any number between 2~254)
- Step 3 Run an Internet Explorer and visit "<u>http://192.168.1.1/</u>", to enter identify page.



User should use the default user name and password when log in for the first time

Connect to 19	2.168.8.1 🔹 🔀
	GF
<u>U</u> ser name: <u>P</u> assword:	 ☑ admin ☑ ☑ ☑ Remember my password
	OK Cancel

Figure 2-2 User Identify Interface

----END

2.2 Status

Check routers information such as status, traffic Stats and device list after login router. Especially, suggest change the password according to the prompts because of security requirement.

You haven't changed the default password for this router. To change router password click here.

The UI will display" already changed login password successfully" after router reboot.

Already changed login password successfully.

2.3 Overview

The overview GUI will be display router system information, Ethernet ports status, VPN connection status, LAN information, 4G connection information and WLAN information,

Status	•	System		~	VPN Status		φ	^
Overview		Router Name	Router					
- Traffic Stats.		Hardware Version			LAN		\$	~
Device List		Firmware Version	G5.0.1.5		Router MAC Address	00:90:4C:1E:20:2D		
Basic Network	2	Router Sn			Router IP Addresses	br0 (LAN) - 192.168.1.1/24		
중 WLAN	•	Chipset	ARMv7 Processor rev 5 (v7l)		DHCP	br0 (LAN) - 192.168.1.2 - 192.168.	1.51	
Advanced Network	•	Router Time	Sat, 01 Jan 2000 09:01:52 +0800					
S Firewall	>	Router fille	Clock Sync.		WAN		¢	^
		Uptime	00:01:04					
VPN Tunnel	· ·	Memory Usage	36.65 MB / 122.20 MB (29.99%)		Wireless (5 GHz)		\$	^
R Administration	>	NVRAM Usage	32.72 КВ / 64.00 КВ (51.12%)					
					Wireless (2.4 GHz)		\$	^
		Ethernet Ports Statu	IS	~				
		WAN/LAN	LAN					
		WAN/LAN						
 More Info 		100M Full	1000M Full					

Figure 2-3 Router Status GUI

2.4 Traffic Stats.

Click Status->Traffic Stats. to enter the traffic stats.GUI.to check Cellular/WAN traffic in real-time.

Status	~		Already changed login password	successfully.
Overview			, , , , , ,	,
Traffic Stats.		Traffic Stats.		
Device List				
Basic Network	>	Interface	Transmit Data	Receive Data
ক WLAN	•	Cellular(usb0)	95.67 <i>KB</i>	111.75 KB
Advanced Network	•			
🔯 Firewall	•			
VPN Tunnel	•			
	>			

Figure 2-4 Traffic Stats. GUI

2.5 Device List

Click Status->Device List to enter the device list GUI.to check the connected devices information in the list.

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Status	*	Already changed login password successfully.								
Overview					5 5					
Traffic Stats.		Device List								
Device List		Interface M	AC Address	IP Address	Name	RSSI	Quality	TX/RX Rate	1	
Basic Network	•	Interface Ma	AC Address	IP Address	Name	K55I	Quality	TA/KA Kate	Lease	
🗟 WLAN	•	br0 54	:E1:AD:C3:99:8B	192.168.1.2			ŝ			
Advanced Network	>									
🙆 Firewall	•							~	3 seconds	
VPN Tunnel	>									
R Administration	•									



2.6 Tool Column

Tools 🛠	Bandwidth 👱	IP Traffic 💻	System 🏚
		Figure 2-6 Too	l Column GUI

2.6.1 **Tools**

2.6.1.1 Ping

Click Tools->Ping to enter ping test GUI. Used to test the reachability of a host on an Internet IP network and to measure the round-trip time for messages sent from the originating host to a destination server.

💰 Ping 🗥 Trace 😨 Wo	DL 🖿 Log 🔒	Capture					
Ping							
IP Address	8.8.8		Ping				
Ping Count	5						
Packet Size	56	(bytes)					
Seq Address				RX Bytes	TTL	RTT (ms)	+/- (ms)

2.6.1.2 Trace

Click Tools->Trace to enter trace test GUI. diagnostic tool for displaying the routeand measuring transit delays of packets across an Internet IP network.



IP Address Trace					race Route
Maximum Hops 20		Trace			IP Address
				20	Maximum Hops
Maximum Wait Time 3 (seconds per hop)			(seconds per hop)	3	Maximum Wait Time

2.6.1.3 WOL

Click Tools-> WOL to enter WOL(Wake On Lan) GUI. Used to wake up those connected devices via WOL protocol. Clock left mouse button to wake up the device.

/ake On Lan			
MAC Address	IP Address	Status	Name 🔿
4:E1:AD:C3:99:8B	192.168.1.2	Active (In ARP)	
Click to wake up MAC Address List			

2.6.1.4 Log

Click Tools-> Log to enter Log GUI. Use to check logs in GUI, download GUI and send logs to server.

& Ping n Trace	WOL Log	Capture
Logs		
View		
Download Log File		FindQ
» Logging Configuration		

2.6.1.5 Capture

Click Tools-> Capture to enter capture data GUI. Use to capture LAN/WAN data packet to analyse what happen in the router.

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💣 Ping 🛛 Trace 😨	WOL 🖿 Log 🔒 Capture	
Capture		
Time1	15 minutes 🔻 Start	
Network	LAN •	

2.6.2 Bandwidth

Click Bandwidth to enter bandwidth graphic GUI. Used to check cellular/LAN/Wi-Fi real-time bandwidth.

			Wi-Fi/2.4G (eth1)	Wi-Fi/5G (eth2)	:03 pm / 12942.27 mbit/s (161	7 70 140 /-
^ 12885.00 mbit/s (1610	163 MB/s)			World.	oo pin7 12942.27 moles (101	7.76 WD/
한 8590.00 mbit/s (1073.	75 MB/s)		Π			
12885.00 mbit/s (1610 8590.00 mbit/s (1073. 4295.00 mbit/s (536.8	3 MB/s)					
2						
0 minute window, 2 s	econd interval)		[[]			14 - 542

2.6.3 System

Click system to choose software reboot, hardware reboot and logout GUI.



2.7 Basic Network

2.7.1 WAN Setting

Step 1 Basic Network>WAN to enter below interface.

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Status	•		Already changed login password successfully.
Basic Network WAN	*	WAN / Internet	
Cellular LAN VLAN		Туре	Disabled Disabled DHCP PPPoE
Schedule DDNS Routing		Save ✓ Cancel ×	Static Address
🗟 WLAN	•		
😭 Advanced Network	•		
🔯 Firewall	>		
VPN Tunnel	>		
R Administration	*		

Table 2-1 WAN Setting Instruction

Parameter	Instruction
Туре	Support DHCP, PPPoE, Static IP address

Step 2 After setting, please click "save" to finish, the device will reboot.

----End

2.7.2 Cellular Setting

Step 1 Basic Network-> Cellular, you can modify relevant parameter according to the application.

۲	Status	•	Already changed login password successfully.	
Q	Basic Network		Cellular Settings	
	WAN			
	Cellular		Enable Modem	
	LAN			
	VLAN			
	Schedule		Basic Settings SIM 1	
	DDNS		ICMP Check	
	Routing			
Ŷ	WLAN		Cellular Traffic Check	
۲	Advanced Network		CIMI Send to :	
0	Firewall		8	
	VPN Tunnel		SMS Code	
	Administration		Operator Lock ex46001	
			Save-✓ Cancel ×	
	① More Info			

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۵	Status	Basic Settings SIM 1	
Ø	Basic Network	Mode	Auto 🔻
	WAN		
	Cellular	PIN Code	
	LAN		
	VLAN	APN	3GNET
	Schedule		
	DDNS	User	CARD
	Routing		
\$	WLAN	Password	
	Advanced Network	Dial Number	*99#
8	Firewall	Auth Type	Auto 🔻
٩	VPN Tunnel	Local IP Address	
Я	Administration	LOCALIP Address	
		Save ✓ Cancel ×	
	 More Info 		

Table 2-2 Cellular Setting Instruction

Parameter	Instruction
Enable Modem	Enable/Disable 4G mode.
Use PPP	ECM dialup as default. PPP optional.
ICMP check	If enable ICMP check and setup a reachable IP address as destination IP, the router will reconnect/reboot once ICMP check failed.
Cellular Traffic Check	The router will reconnect/reboot once there's no Rx/Tx data.
CIMI Send to	Send CIMI to a defined IP and port by TCP protocol.
SMS Code	Remote control the router by SMS. Only the configured SMS code will work.
Operator Lock	Lock a specified operator for the router by MCC/MNC code.
Dual SIM Mode	【Fail Over】Two SIM cards mutual backup. Once SIM1 failed, it'll switch to SIM2 and work on SIM2, and vice versa.
	[SIM1 Only] Only SIM1 works.
	[SIM2 Only] Only SIM2 works.
	【Backup】 SIM1 is the primary SIM. Once SIM1 failed, it'll switch
	to SIM2 and work on SIM2 for a specified period of time, then it switches back to SIM1.
Connect Mode	【Auto】The router will automatically connect to 3G/4G networks and give priority to 4G.
	[LTE] Router will connect to 4G only.

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Parameter	Instruction
	[3G] Router will connect to 3G only.
Pin Code	Some SIM cards are locked with a Personal Identification Number (PIN) code in case they are lost or stolen.
APN	APN is provided by local ISP, usually CDMA/EVDO networks do not need this parameter.
User	SIM card user name is provided by ISP
Password	SIM card password is provided by ISP
Auth. Type	Auto/PAP/Chap/MS-Chap/MS-Chapv2 authentication optional.
SIM Local IP Address	Fix SIM IP. The feature is available if carrier can provide this service.

NOTE ICMP Check and Cellular Traffic Check are alternative.

[ICMP Check]

Enable ICMP, Router will automatically check whether the defined IP address is reachable per 60s. If the IP address is unreachable and ICMP check is timeout at the first time, it will check 2 times every 3 seconds. If the third time is still failed, the router will redial.

The ICMP Check IP is a public IP or company server IP address.

ICMP Check	×	
Check IP	8.8.8	
Check IP (Optional)	4.4.4.4	
Interval	60	(seconds)
Retries	3	(Times)
Fail Action	Reboot	System 🔻

【Cellular Traffic Check】

[Check Mode] there are Rx(Receive), Tx(Transmission) and Rx/Tx check modes.

[Rx]Router will check the 3G/LTE cellular receiver traffic. If no receiver traffic within the defined check interval, the router will implement the specified action reconnect or reboot.

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Cellular Traffic Check	~	
Check Mode	Rx	•
Check Interval	10	(minutes)Range: 1 ~ 1440
Fail Action	Cellular Re	connect 🔻

Step 2 After Setting, please click "save" icon.

----End

2.7.3 LAN Setting

Step 1 Basic Network>LAN to enter below interface

Status	•		Already	changed login passw	ord successfully.		
Basic Network	*	LAN					~
WAN Cellular							
LAN		Bridge ^	IP Address	Subnet Mask	DHCP Server	IP Pool	Lease(minutes)
VLAN		br0	192.168.1.1	255.255.255.0	~	192.168.1.2 - 51	1440
Schedule					-		
DDNS		1 *					
Routing							
🗟 WLAN	•	Add+					
Advanced Network	8 2 1	Save ✓ Cancel ×					
🔕 Firewall	•						
VPN Tunnel	\$ ()						
R Administration							
	376 B						
 More Info 							
-							
LAN							~
Bridge	^	IP Address	Subnet Mask	DHCP Se	nor	IP Pool	Lease(minutes)
blidge		Ir Address	Sublict Mask	Difer Se	i vei	17 7 601	Lease(mulates)
br0		192.168.1.1	255.255.255.0	~		192.168.1.2 - 51	1440
1	· · · ·						
1	T						
	*						
1 Add+	T						
Add+							
Add+	v cel X						

Parameter	Instruction
Bridge	Supports 4 LAN IP address for br0 to br3 interface. If need to support VLAN, please go to VLAN GUI.



Parameter	Instruction
Router IP Address	Router IP address, default IP is 192.168.1.1
Subnet Mask	Router subnet mask, default mask is 255.255.255.0
DHCP	Dynamic allocation IP service, after enable, it will show the IP address range and options of lease
IP Pool	IP address range within LAN
Lease	The valid time, unit as minute
Add	Add LAN IP address, supports 4 LAN IP addresses.

Step 2 After setting, please click "save" to finish, the device will reboot.

----End

2.7.4 **VLAN**

Step 1 Basic Network->VLAN to enter the VLAN setting page.

VID ^	LAN 1	Tagged	LAN 2	Tagged	LAN 3	Tagged	LAN 4	Tagged	WAN	Tagged	Bridge
1	~	×	~	×	~	×	~	×	~	×	br0
2	×	×	×	×	×	×	×	×	×	×	WAN
0 *											none
Add +											

Table 2-4 LAN Setting Instruction

Parameter	Instruction
VID	VLAN ID number. The VID range is from 1 to 15.
LAN1~LAN4, WAN	LAN
Tagged	Enable to make router can encapsulate and de-encapsulate the VLAN tag.
Bridge	Routers interface br0, br1, br2, br3 and WAN

Step 2 Please Click "Save" to finish.

----End



2.7.5 Schedule

Status	•	Enabled L	inks							~
Basic Network	×	Link Nam	e		Link Type			Descrip	otion	
WAN Cellular LAN		modem			ECM/QMI					
LAN VLAN		ICMP Che	-ck							~
Schedule										
DDNS		On Lin	k	Destin	ation	Interval		Retries	Description	
Routing		~								
WLAN	•	TOP TO A LOCAL	1							
Advanced Network		Add +								
Firewall	•									
VPN Tunnel	•	Schedule								~
Administration	•	On	Link 1	Li	nk 2	Policy		Descr	ription	
		~	modem	. v	nodem	• FAILOV	ER	×		
			1							
 More Info 		Add+								
Enabled Links			11-1-2				Deserie	4		~
Link Name			Link 1	lype			Descrip	tion		
modem			ECM/	QMI						
ICMP Check										~
On Link		Dest	ination	I	nterval		Retries		Description	
Add +										
Schedule										~
On Link	1		Link 2		Policy		Descri	ntion		
					. Sincy		besen	2.311		
✓ mod	dem	۳	modem	٣	FAILOVER		*			
Add +										
Add +										

Step 1 Basic Network->VLAN to enter the Schedule setting page.

Step 2 Please Click "Save" to finish.

----End

2.7.6 Dynamic DNS Setting

Step 1 Basic Network->DDNS to enter the DDNS setting page.

Status >		Already changed login password successfully.	
Basic Network		······, ·····	
WAN	Dynamic DNS		
Cellular	IP Address	Use WAN IP Address 0.0.0.0 (recommended) 🔻	
LAN VLAN			
Schedule	Auto refresh every	28 minutes (0 = Disabled)	
DDNS			
Routing	Dynamic DNS1		
wlan ›	Service	None	
Advanced Network			
Firewall			
/PN Tunnel	Dynamic DNS2		
Administration	Service	None *	
	Service	1016	
More Info	Save ✓ Cancel ×		
ynamic DNS			
,			
P Address	Use WAN IP A	ddress 0.0.0.0 (recommended)	
Auto refresh every	28	minutes (0 = Disabled)	
ynamic DNS1			
ervice	None	¥	
ervice	Hone		
ynamic DNS2			
	None	*	
Service			

Table 2-5 DDNS Setting Instruction

parameter	Instruction
IP address	Default is standard DDNS protocol, for customized protocol, please contact Wlink engineer. Usually, use default IP 0.0.0.0
Auto refresh time	Set the interval of the DDNS client obtains new IP, suggest 240s or above
Service provider	Select the DDNS service provider that listed.

Step 2 Please Click "Save" to finish.

----End

2.7.7 Routing Setting

Step 1 Basic Network->Routing to enter the DDNS setting GUI.

atus >	Current Routing Table					
sic Network 🐱	Destination	Gateway / Next Hop		Subnet Mask	Metric	Interface
	192.168.1.0	×		255.255.255.0	0	LAN
lar N	127.0.0.0	*		255.0.0.0	0	lo
edule IS	Static Routing Table					
ting	Destination	Gateway	Subnet Mask	Metric	Interface	Description
N 🔸		0.0.0.0		0	LAN	·
iced	Add+					
vall >	Miscellaneous					
ministration >	Mode	Gatewav *				
	RIPv1 & v2	Disabled *				
	DHCP Routes					
	Spanning-Tree Protocol					
More Info	Save ✓ Cancel ×					
ent Routing Table	Gateway / Next	Нор	Subnet Mas	sk	Metric	Interface
ent Routing Table	Gateway / Next	Нор	Subnet Mas 255.255.255		Metric 0	Interface LAN
rent Routing Table stination 2.168.1.0		Нор				
rrent Routing Table estination 2.168.1.0 7.0.0.0 tic Routing Table	*	Нор	255.255.255		0	LAN
tent Routing Table	*	Hop Subnet Masi	255.255.255	5.0	0	LAN
ent Routing Table	*		255.255.255	5.0	0	LAN Io
rent Routing Table stination 2.168.1.0 7.0.0.0 tic Routing Table stination	× × Gateway		255.255.255 255.00.0 k Metr	5.0	0 0 Interface De	LAN Io
ent Routing Table tination .168.1.0 .00.0 c Routing Table tination	× × Gateway		255.255.255 255.00.0 k Metr	5.0	0 0 Interface De	LAN Io
rent Routing Table stination 2.168.1.0 7.0.0.0	* * Gateway 0.0.0.0		255.255.255 255.00.0 k Metr	5.0	0 0 Interface De	LAN Io
ent Routing Table tination .168.1.0 .0.0.0 ic Routing Table tination dd + cellaneous	× Cateway 0.0.0.0 Gat	Subnet Mas	255.255.255 255.00.0 k Metr	5.0	0 0 Interface De	LAN Io
nt Routing Table ination 168.1.0 0.0.0 Routing Table ination d+	× Cateway 0.0.0.0 Gat	Subnet Masi	255.255.255 255.00.0 k Metr	5.0	0 0 Interface De	LAN Io

Table 2-6 Routing Setting Instruction

Parameter	Instruction
Destination	Router can reach the destination IP address.
Gateway	Next hop IP address which the router will reach
Subnet Mask	Subnet mask for destination IP address
Metric	Metrics are used to determine whether one particular route should be chosen over another.
Interface	Interface from router to gateway.
Description	Describe this routing name.

Step 2 Please Click " Save " to finish.

```
----End
```

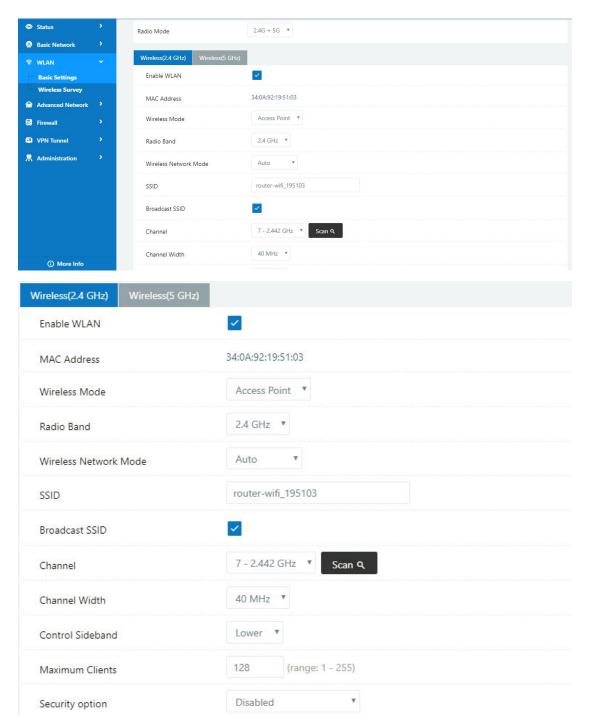


2.8 WLAN Setting

It's mainly for router which support Wi-Fi, you can modify and configure WLAN parameter through Web GUI, below is the common setting.

2.8.1 Basic Setting

Step 1 WLAN->Basic Setting to configure relative parameter



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Wireless(2.4 GHz)	Wireless(5 GHz)	
Enable WLAN		
MAC Address		34:0A:92:19:51:04
Wireless Mode		Access Point 💌
Radio Band		5 GHz 🔻
Wireless Network	Mode	Auto 🔻
SSID		router-wifi_195103_5G
Broadcast SSID		
Channel		149 - 5.745 GHz 🔻 Scan Q
Channel Width		80 MHz 🔻
Control Sideband		Lower 🔻
Maximum Clients		128 (range: 1 - 255)
Security option		Disabled

Table 2-7 Basic of WLAN Setting Instruction

Parameter	Instruction
Radio Mode	2.4G+5G mode as default. Support 2.4G, 5G modes optional.2.4G+5G model, Wi-Fi bandwidth for 683Mbps2.4G model, Wi-Fi bandwidth for 300Mbps
	5G model, Wi-Fi bandwidth for 866Mbps
Enable wireless	Enable or Disable the Wireless
Wireless mode	Support AP mode.
Wireless Network protocol	Support Auto/b/g/n optional for 2.4G. Support Auto/A/N optional for 2.5G.
SSID	The default is router, can be modified as per application.
Channel	The channel of wireless network, suggest keep the default
Channel Width	20MHz and 40MHz alternative for 2.4G. 20MHz, 40MHz and 80MHzalternative for 2.4G.
Security	Support various encryption method as requested.



Step 2 Please click "Save" to finish.

----End

2.8.2 Wireless Survey

Step 1 WLAN> Wireless Survey to check survey.

2.9 Advanced Network Setting

2.9.1 **Port Forwarding**

Step 1 Advanced Network > Port Forwarding to enter the GUI, you may modify the router name, Host name and Domain name according to the application requirement.

⊅ Status →	Already changed login password successfully.					
Basic Network	PortForwarding					
⊽ WLAN →	Ford of warding					
Advanced Network	On Proto	Src Address	Ext Ports	Int Port	Int Address	Description ^
Port Forwarding	× UDP		1000,2000		192.168.1.2	ex: 1000 and 2000
Port Redirecting	× Both		1000-2000,3000		192.168.1.2	ex: 1000 to 2000, and 3000
DMZ	× Both	1.1.1.0/24	1000-2000		192.168.1.2	ex: 1000 to 2000, restricted
IP Passthrough	× TCP		1000	2000	192.168.1.2	ex: different internal port
Triggered	× TCP		1000	2000	192.166.1.2	ex: different internal port
Captive Portal	ТСР	×				
Serial App.						
UPnP/NAT-PMP	Add +					
Bandwidth Limiter	Src Address (antion	al) - Forward only if from t	ais address ev: "1 2 3 /" "	1234-2345" "123	0/24" "me example com"	
VRRP		is to be forwarded, as seen				
Static DHCP			e the LAN. If blank, the de	stination port is the sa	me as <i>Ext Ports</i> . Only one p	ort per entry is supported when
Firewall	forwarding to a diff Int Address - The definition of the definiti	erent internal port estination address inside th	e LAN.			
and a second state of the						
VPN Tunnel						
VPN Tunnel Administration						

Table 2-8	Port Forwarding Instructio	n
-----------	----------------------------	---

Parameter	Instruction
Protocol	Support UDP, TCP, both UDP and TCP
Src. Address	Source IP address. Forward only if from this address.



Parameter	Instruction
Ext. Ports	External ports. The ports to be forwarded, as seen from the WAN.
Int. Port	Internal port. The destination port inside the LAN. If blank, the destination port is the same as Ext Ports. Only one port per entry is supported when forwarding to a different internal port.
Int. Address	Internal Address. The destination address inside the LAN.
Description	Remark the rule

Step 2 Please click "save" to finish

----End

2.9.2 Port Redirecting

Step 1 Advanced Network > Port Redirecting to enter the GUI, you may modify the router name, Host name and Domain name according to the application requirement.

tatus >		Already changed login p	assword successfully.	
Basic Network	PortRedirecting			
♥ WLAN > Advanced Network	On Proto Int Port	Dst Address	Ext Port	Description
Port Forwarding				
Port Redirecting	TCP TCP			
DMZ	Add +			
IP Passthrough Triggered				
Captive Portal	Save ✓ Cancel ×			
Serial App. UPnP/NAT-PMP	Save~ Cancerx			
Bandwidth Limiter				
VRRP				
Static DHCP				
🛛 Firewall >				
VPN Tunnel >				
R Administration >				
① More Info				

Parameter	Instruction
Protocol	Support UDP, TCP, both UDP and TCP
Int Port	Internal port.
Dst. Address	The redirecting IP address.
Ext. Ports	External port for redirection.
Description	Remark the rule

Step 2 Please click "save" to finish

```
----End
```



2.9.3 DMZ Setting

Step 1 Advanced Network> DMZ to check or modify the relevant parameter.

👁 Status 🔹 🔺		Already changed login password successfully.		
Basic Network				
🕏 WLAN 🔹 🔸	DMZ			
Advanced Network	Enable DMZ			
Port Forwarding	Internel Address	192.168.1.0		
Port Redirecting				
DMZ	Source Address			
IP Passthrough	Restriction	(optional; ex: "1.1.1.1", "1.1.1.0/24", "1.1.1.1 - 2.2.2.2" or "me.example.com")		
Triggered		(optional) ear in this in the part of the assessment of the complete only		
Captive Portal				
Serial App.	Leave CLI Remote Access	 (Redirect remote access ports for CLI to router) 		
UPnP/NAT-PMP		(Redirect remote access ports for HTTP(s) to router)		
Bandwidth Limiter	Leave WEB Remote Access	(Redirect remote access ports for HTTP(s) to router)		
VRRP				
Static DHCP	Save ✓ Cancel ×			
3 Firewall				
D VPN Tunnel				
R Administration				
① More Info				

Table 2-10 DMZ Instruction

parameter	Instruction
Destination Address	The destination address inside the LAN.
Source Address Restriction	If no IP address inside, it will allow all IP address to access. If define IP address, it will just allow the defined IP address to access.
Leave Remote Access	

Step 2 Please click "save" to finish

----End

2.9.4 **IP Passthrough Setting**

Step 1 Advanced Network> IP Passthrough to check or modify the relevant parameter.

	Shenzhen Wlink Technology Co., LTD 深圳市德传物联技术有限公司	
	▲ 深圳市德传物联技术有限公司	WL-G200 Series Router User Manual
👁 Status 🔹 🗘	Already chang	ged login password successfully.
Basic Network >		
🕏 WLAN 🔶	IP Passthrough	
Advanced Network	Enabled	
Port Forwarding Port Redirecting	MAC Address	
DMZ	Gateway	
IP Passthrough		
Triggered		
Captive Portal	Save ✓ Cancel ×	
Serial App.		
UPnP/NAT-PMP		
Bandwidth Limiter		
VRRP		
Static DHCP		
🔯 Firewall 🔹		
VPN Tunnel		
💂 Administration 🔹		
More Info		

Table 2-11 IP Passthrough Instruction

parameter	Instruction
Enable	Enable IP Passthrough
MAC Address	Enable DHCP of device. Configure device Mac. Device will be assigned SIM IP.
Gateway	If WL-G200 connect to multiple device, input other device gateway. The device might access to router GUI.

Step 2 Please click "save" to finish

----End

2.9.5 Triggered Setting

Step 1 Advanced Network> Triggered to check or modify the relevant parameter.

👁 Status 🔹 🔶			Already changed login	password successfully
Basic Network				, · · · · · · · · · · · · · · · · ·
≆ WLAN →	Triggered Port Forwa	rding		
Advanced Network	On Protocol	Trigger Ports	Forwarded Ports	Description ~
Port Forwarding	× TCP	3000-4000	5000-6000	ex: open 5000-6000 if 3000-4000
Port Redirecting	ТСР	•		
DMZ IP Passthrough				
Triggered	Add +			
Captive Portal	- (200 200)			
Serial App.	 (200-300). These ports are a 	utomatically closed after a	few minutes of inactivity.	
UPnP/NAT-PMP				
Bandwidth Limiter	Save ✓ Cancel ×			
	Savev			
VRRP				
VRRP Static DHCP				
Static DHCP				
Static DHCP				



	Table 2-12 Triggered Instruction
parameter	Instruction
Protocol	Support UDP, TCP, both UDP and TCP
Triggered Ports	Trigger Ports are the initial LAN to WAN "trigger".
Transferred Ports	Forwarded Ports are the WAN to LAN ports that are opened if the "trigger" is activated.
Note	Port triggering opens an incoming port when your computer is using a specified outgoing port for specific traffic.

Step 2 Please click "save" to finish.

----End

2.9.6 Captive Portal

Step 1 Advanced Network> Triggered to check or modify the relevant parameter.

👁 Status 🔹 📩	Captive Portal		
Basic Network >	Enabled		
≌ WLAN →	Auth Type	NONE *	
Advanced	WEB Root	Default	Y
Port Forwarding Port Redirecting	WEB Host		
DMZ	Portal Host		
IP Passthrough Triggered	Login Timeout	0	Minutes
Captive Portal	Idle Timeout	0	Minutes
Serial App. UPnP/NAT-PMP	Ignore LAN		
Bandwidth Limiter	Redirecting http://	www.google	com
VRRP Static DHCP	MAC Address Whitelist		
Firewall >	Download QOS		
VPN Tunnel >	Unload OOS		



Parameter	Instruction	
Enable	Enable Captive portal feature.	
Auth Type	Reserved.	
Web Root	Choose captive portal file storage path.	
	Default: Captive portal file is in the firmware as default.	
	In-storage: Captive portal file is in router's Flash.	
	Ex-storage: Captive portal file is in extended storage such as SD card.	



Parameter	Instruction
Web Host	Configure domain name for the captive portal access. For example,
	Configure as wlink.tech.com, we might directly access to captive portal page in the website as wlink.tech.com
Portal Host	Reserved.
Logged Timeout	Maximum time user has connectivity. User need to re-login Captive Portal page after defined time.
Idle Timeout	Maximum time user has connectivity if no network activity from Wi-Fi User.If User need to re-login Captive page to surf internet.
Ignore LAN	If enabled, LAN devices will bypass the Captive Portal page.
Redirecting	Router will redirect to the defined link after accepting the terms and
	conditions on the Captive Portal page.
MAC Whitelist	No captive portal page for Wi-Fi device.
Download QoS	Enable to apply the Download and Upload per user limits.
Upload Qos	Maximum download speed available to each user.

Step 2 Please click "save" to finish.

----End

2.9.7 Serial App. Setting

Step 1 Advanced Network> Serial App to check or modify the relevant parameter.

		Already changed login password successfully.
Basic Network > The second s	Serial to TCP/IP	
😪 Advanced	IPoC Mode	Serial *
Network 👻 Port Forwarding	Serial to TCP/IPMode	Disabled *
Port Redirecting		
DMZ IP Passthrough		
Triggered	Save ✓ Cancel ×	
Captive Portal		
Serial App. UPnP/NAT-PMP		
Bandwidth Limiter		
VRRP Static DHCP		
Ø Firewall >		
VPN Tunnel >		



Serial to TCP/IP	
IPoC Mode	Serial 🔻
Serial to TCP/IPMode	Client •
Server IP/Port	8.8.8.8 : 40002
Socket Type	TCP •
Socket Timeout	500 (milliseconds)
Serial Timeout	500 (milliseconds)
Packet Payload	1024 (bytes)
Heart-Beat Content	
Heart-Beat Interval	2 (seconds)
Port Type	R\$485/R\$232 *
Cache Enable	
Debug Enable	
Baud Rate	57600 🔻
Parity Bit	none T
Data Bit	8 *
Stop Bit	1 *
Save ✓ Cancel ×	

Table 2-14 Serial App Instruction

Parameter	Instruction
Serial to TC/IP mode	Support Disable, Server and Client mode. Such as Client.
Server IP/Port	IP address and domain name are acceptable for Server IP
Socket Type	Support TCP/UDP protocol
Socket Timeout	Router will wait the setting time to transmit data to serial port.
Serial Timeout	Serial Timeout is the waiting time for transmitting the data package that is less the Packet payload. If the last package equals to the Packet payload, Serial port will transmit it immediately. The default setting is 500ms.
Packet payload	Packet payload is the maximum transmission length for serial port data packet. The default setting is 1024bytes.
Heart-beat Content	Send heart beat to the defined server to keep router online. Meantime, it's convenient to monitor router from server.
Heart beat Interval	Heart beat interval time



Parameter	Instruction			
Baud Rate	115200 as default			
Parity Bit	None as default			
Data Bit	8bit as default			
Stop Bit	1bit as default			



Step 2 Please click "save" to finish.

```
----End
```

2.9.8 UPnp/NAT-PMP Setting

Step 1 Advanced Network> Upnp/NAT-PMP to check or modify the relevant parameter.

Status	>			Already changed logir	n password successfully.	
😟 Basic Network						
🕏 WLAN		Forwarded Ports				
Advanced Networ	k Y	Ext Ports	Int Port	Internal Address	Protocol	Description
Port Forwarding Port Redirecting						Delete All × C Refresh
DMZ IP Passthrough		Settings				
 Triggered Captive Portal 		Enable UPnP				
Serial App.		Enable NAT-PMP				
UPnP/NAT-PMP Bandwidth Limite VRRP		Inactive Rules Cleaning	E	1		
Static DHCP		Secure Mode		when enabled, UPnP clients are allow	red to add mappings only to their IP)	
BirewallVPN Tunnel		Show In My Network Place				
R Administration		Sure de Conselve				
 More Info 		Save ✓ Cancel ×				

Step 2 Please click "save" to finish.

----End

2.9.9 Bandwidth Control Setting

Step 1 Advanced Network> Bandwidth Control to check or modify the relevant parameter.

ML		Shenzhen Wlink Tech 深圳市德传物联打	nology Co., LTD 支术有限公司	v	VL-G200 Sei	ries Router U	ser Manual
Status	>		Already	changed login passwo	rd successfully.		
Basic Network							
🕆 WLAN		Bandwidth Control					
Advanced Network		Enable Control					
Port Forwarding							
Port Redirecting		IP IP Range MAC Address	DLRate	DLCeil	ULRate	ULCeil	Priority
DMZ							Normal V
IP Passthrough							Normai *
Triggered		Add +					
Captive Portal							
Serial App. UPnP/NAT-PMP							
Bandwidth Limiter		Default Class					
VRRP		Enable Default Class					
Static DHCP							
Firewall		Save ✓ Cancel ×					
VPN Tunnel		Save ✓ Cancel ×					
R Administration							
① More Info							

Table 2-15 Bandwidth Control Instruction

Max Available Download	Speed limit for router.
Max Available Upload	Speed limit for router.
IP/ IP Range/	Limit devices speed for specified IP/IP Range/ MAC
MAC Address	Address.
DL Rate	Mix Download rate
DL ceil	Max download rate
UL Rate	Mix Upload rate
UL ceil	Max upload rate
Priority	The priority of a specific user.
Default Class	If no specified IP/MAC, the download and upload limit for
	total speed for all of device.

Step 2 Please click "save" to finish.

----End

2.9.10 VRRP Setting

Step 1 Advanced Network> VRRP to check or modify the relevant parameter.

Shenzhen Wlink Technology Co., LTD 深圳市徳传物联技术有限公司

Status		Already changed login password successfully.
Basic Network	VRRP	
🕈 WLAN	5 11 cars	
Advanced Network	Enable VRRP	
Port Forwarding	Mode	backup *
Port Redirecting DMZ	Virtual IP	192.168.1.3
 IP Passthrough Triggered 	Virtual Router ID	
Captive Portal	Priority	100
Serial App. UPnP/NAT-PMP	Authentication	
Bandwidth Limiter	Script Type	Default 🔻
Static DHCP	Check Interval	3
VPN Tunnel	Weight	10
R Administration		
(i) More Info	Save ✓ Cancel ×	

Step 2 Please click "save" to finish.

```
----End
```

2.9.11 Static DHCP Setting

Step 1 Advanced Network> Static DHCP to check or modify the relevant parameter.

◎ Status		Already changed login passv	word successfully.	
Basic Network	Static DHCP			
ŵwlan >	MAC Address	IP Address	Hostname 🔨	Description
Advanced Network	00:00:00:00:00	(Antonio and		
Port Redirecting	00:00:00:00:00:00	192.168.1.2		
DMZ IP Passthrough	Add +			
Triggered				
Captive Portal Serial App.	Save ✓ Cancel ×			
UPnP/NAT-PMP				
Bandwidth Limiter				
VRRP Static DHCP				
🛿 Firewall 🔹 🔸				
D VPN Tunnel >				
R Administration >				
 More Info 				

Step 2 Please click "save" to finish.

----End

2.10 Firewall

2.10.1 IP/URL Filtering

Step 1 Firewall> IP/URL Filtering to check or modify the relevant parameter.

い に に に に に に Shenzhe 深圳市	n Wlink Technology Co., LTD 德传物联技术有限公司
---	---

and the second second								
Status	*	IP/MAC/Port	Filtering					
Basic Networ	k 🤌	On Src MAC	Src IP	Dst IP	Protocol Src	: Port	Dst Port Policy	Description
🕈 WLAN	>							
Advanced Ne	twork >				NON *		Acc	el
Firewall		Add +						
IP/URL Filte	ring							
Domain Filte		Key Word Filte	ering					
VPN Tunnel	2	On	Key Word			Description		
R Administratio	on 🗲							
		_						
		Add +						
		URL Filtering						
		On	URL			Description		
		×						
		Add+						
① More I	nfo							
IP/MAC/Po	ort Filtering							
On Src MA	c	Cara ID	Dst IP	Deste est	Car Dant	Det De et	D-1:	Description
On Src MA	C	Src IP	DSt IP	Protocol	Src Port	Dst Port	Policy	Description
				NON *			Acce; 🔻	
_								
Add +								
Key Word	Filtering							
On	Key Word				Description	n		
	itey mora				Description			
~								
and the second s								
Add +								
URL Filterin	ng							
On	URL				Description	n		
~								
Add +								
Nuur								
Access Filte	ring							
0.	-	Can ID	Det ID	Protocol	Cas Deat	D-+ D	Deller	Description
On Src MAG		Src IP	Dst IP	Protocol	SIC POIT	Dst Port	Policy	Description
~				NON .			Accej *	
Add +								
_								
Save✓	Cancel ×							

Table 2-16 IP/URL Filtering Instruction

Parameter	Instruction
IP/MAC/Port Filtering	Support IP address, MAC address and port filter. Accept/Drop options for filter policy.
Key Word Filtering	Support key word filter.
URL Filtering	Support URL filter.
Access Filtering	Support Access Filter.



Step 2 Please click "save" to finish.

---End

2.10.2 **Domain Filtering**

Step 1 Firewall> Domain Filtering to check or modify the relevant parameter.

Status	Already changed login password successfully.	
Basic Network >	Domain Filtering	
ବ WLAN 🔸	-	
Advanced Network	On	
🔞 Firewall 🗸 🗸	Default Policy White List *	
IP/URL Filtering	On Domain Description	
Domain Filtering		
VPN Tunnel		
Administration Administration	Add +	
	Save ✓ Cancel ×	

Table 2-17 Domain Filtering Instruction

Parameter	Instruction
Default Policy	Support black list and white list
Local IP Address	Local IP address for LAN.
Domain	Support Domain filter.

Step 2 Please click "save" to finish.

----End

2.11 VPN Tunnel

2.11.1 GRE Setting

Step 1 VPN Tunnel> GRE to check or modify the relevant parameter.

Status	Already changed login password successfully.			
Basic Network >	GRE Tunnel			
♥ WLAN	one runner	÷		
Advanced Network>	On Idx ~ Tunnel Address	Tunnel Source Tunnel Destination	Keepalive Interval Retries	Description
🔯 Firewall >				
😫 VPN Tunnel 🛛 👻				
GRE	Add +			
OpenVPN Client				
PPTP/L2TP Client	GRE Route			
IPSec	On Tunnel Index ^	Destination Address	Description	
R Administration >		v		
	1			
	Add +			
	Save ✓ Cancel ×			



Table 2-18 GRE Instruction

Parameter	Instruction
IDx	GRE tunnel number
Tunnel Address	GRE Tunnel local IP address which is a virtual IP address.
Tunnel Source	Router's 3G/WAN IP address.
Tunnel Destination	GRE Remote IP address. Usually a public IP address
Keep alive	GRE tunnel keep alive to keep GRE tunnel connection.
Interval	Keep alive interval time.
Retries	Keep alive retry times. After retry times, GRE tunnel will be re-established.
Description	

Step 2 Please click "save" to finish.

----End

2.11.2 **OpenVPN Client Setting**

Step 1 VPN Tunnel> OpenVPN Client to check or modify the relevant parameter.

Basic Network >	c	OpenVPN Client	
🗇 WLAN 🔷			
AdvancedNetwork →		lient 1 Client 2	
🖾 Firewall 🔷	Ba	asic Advanced Keys Status	
😫 VPN Tunnel 🗸 🗸	v	/PN Client #1 (Stopped)	÷
GRE		Start with WAN	
OpenVPN Client PPTP/L2TP Client		Interface Type	TUN *
IPSec	1	Protocol	UDP Y
R Administration →		Server Address	1194
		Firewall	Automatic *
		Authorization Mode	TLS •
		Username/Password Authentication	
		HMAC authorization	Disabled •
		Create NAT on tunnel	
	Sta	art Now	



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asic Advanced Keys Status	
VPN Client #1 (Stopped)	
Start with WAN	
Interface Type	TUN 🔻
Protocol	UDP *
Server Address	1194
Firewall	Automatic 🔻
Authorization Mode	TLS
Username/Password Authentication	
HMAC authorization	Disabled *
Create NAT on tunnel	

Table 2-19 Basic of OpenVPN Instruction

Parameter	Instruction
Start with WAN	Enable the Openvpn feature for 4G/3G/WAN port.
Interface Type	Tap and Tun type are optional. Tap is for bridge mode and Tunnel is for routing mode.
Protocol	UDP and TCP optional.
Server Address	The Openvpn server public IP address and port.
Firewall	Auto, External only and Custom are optional
Authorization Mode	TLS, Static key and Custom are optional.
User name/Password	As the configuration requested.



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Parameter	Instruction
Authentication	
HMAC authorization	As the configuration requested.
Create NAT on tunnel	Configure NAT in Openvpn tunnel.

/PN Client #1 (Stopped)		•
Poll Interval	0 (in minutes, 0 to disable)	
Redirect Internet traffic		
Accept DNS configuration	Disabled *	
Encryption cipher	Use Default	
Compression	Adaptive *	
TLS Renegotiation Time	-1 (in seconds, -1 for default)	
Connection retry	30 (in seconds; -1 for infinite)	
Verify server certificate (tls-remote)		
Custom Configuration		
		/i

Table 2-20 Advanced of OpenVPN Instruction

Parameter	Instruction
Poll Interval	Openvpn client check router's status as interval time.
Redirect Internet Traffic	Configure Openvpn as default routing.
Access DNS	As the configuration requested.
Encryption	As the configuration requested.
Compression	As the configuration requested.
TLS Renegotiation Time	TLS negotiation time1 as default for 60s.
Connection Retry Time	Openvpn retry to connection interval.
Verify server certificate	As the configuration requested.
Custom Configuration	As the configuration requested.



/PN Client #1 (Stopped)	
or help generating keys, refer to the OpenVPN HOWTO.	
Certificate Authority	
Client Certificate	
Client Key	

Start Now

Table 2-21 Keys of OpenVPN Instruction

Parameter	Instruction
Certificate Authority	Keep certificate as the same as server
Client Certificate	Keep client certificate as the same as server
Client Key	Keep client key as the same as server

 OpenVPN Client

 Client 1
 Client 2

 Basic
 Advanced
 Keys
 Status

 VPN Client #1 (Stopped)

 Client is not running or status could not be read.
 Refresh Status

 Start Now

Table 2-22 Status of OpenVPN Instruction

Parameter	Instruction
Status	Check Openvpn status and data statistics.

Step 2 Please click "save" to finish.

----End

2.11.3 **PPTP/L2TP Client Setting**

Step 1 VPN Tunnel> VPN Client to check or modify the relevant parameter.

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Status	*	L2TP/PPTP Basic	:							
Basic Network	•	On	Protocol ^	Name	Server	Jsername	Password	Firewall	Default Route	Local IP
WLAN	*	~	L2TP •							
Advanced etwork	•	Add +								
Firewall										
VPN Tunnel	~	L2TP Advanced								
GRE		On	Name ^	Accept DNS	MTU	MRU	Tunnel Au	ith Tunnel P	assword Cus	tom Options
OpenVPN Clic PPTP/L2TP Cl		~		NO	Ŧ					
IPSec	ient	Add+								
Administratio	n >	Aug								
		PPTP Advanced								
		On	Name ^	Accept DN	NS MTU	MRU	MPPE	N	IPPE Stateful	Custom Options
		~		NO	×					
		Add+								
		Schedule								
		On		Name 1 ^	Name 2		Policy		Description	
		~					FAILOVER		· •	
		Add+								
More Info		Add +								

Table 2-23 PPTP/L2TP Basic Instruction

parameter	Instruction	
On	VPN enable	
Protocol	VPN Mode for PPTP and L2TP	
Name	VPN Tunnel name	
Server Address	VPN Server IP address.	
User name	As the configuration requested.	
Password	As the configuration requested.	
Firewall	Firewall For VPN Tunnel	
Local IP	Defined Local IP address for tunnel	

Table 2-24 L2TP Advanced Instruction

On	L2TP Advanced enable
Name	L2TP Tunnel name
Accept DNS	As the configuration requested.
MTU	MTU is 1450bytes as default
MRU	MRU is 1450bytes as default
Tunnel Auth.	L2TP authentication Optional as the configuration requested.
Tunnel Password	As the configuration requested.



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Options		As the configuration requested.
---------	--	---------------------------------

Table 2-25 PPTP Advanced Instruction

On	PPTP Advanced enable
Name	PPTP Tunnel name
Accept DNS	As the configuration requested.
MTU	MTU is 1450bytes as default
MRU	MRU is 1450bytes as default
MPPE	As the configuration requested
MPPE Stateful	As the configuration requested
Customs	As the configuration requested

Table 2-26 SCHEDULE Instruction

On	VPN SCHEDULE feature enable
Name1	VPN tunnel name
Name2	VPN tunnel name
Policy	Support VPN tunnel backup and failover modes optional
Description	As the configuration requested

Step 2 Please click "save" to finish.

---End



2.11.4 IPSec Setting

	Already changed login password successfully.		
Basic Network	IPSec		
🕏 WLAN 🔹 🔸			
Advanced	IPSec 1 IPSec 2 Schedule		
Network >	Group Setup Basic Setup Advanced S	etup	
🗃 Firewall 🔶			
🗊 VPN Tunnel 🛛 👻	Enable IPSec		
GRE OpenVPN Client	IPSec Extensions	Normal	
PPTP/L2TP Client	Local Security Gateway Interface	3G Cellular 📍	
IPSec	Local Security Group Subnet/Netmask	192.168.1.0/24 ex. 192.168.1.0/24	
R Administration >	Local Security Firewalling		
	Remote Security Gateway IP/Domain		
	Remote Security Group Subnet/Netmask	10.0.0/24 ex. 192.168.88.0/24	
	Remote Security Firewalling		
① More Info	Save 🗸 Cancel X		

2.11.4.1 IPSec Group Setup

Step 1 IPSec> Group Setup to check or modify the relevant parameter.

Group Setup Basic Setup Advanced S	etup	
Enable IPSec		
IPSec Extensions	Normal	
Local Security Gateway Interface	3G Cellular 🔻	
Local Security Group Subnet/Netmask	192.168.1.0/24	ex. 192.168.1.0/24
Local Security Firewalling		
Remote Security Gateway IP/Domain		
Remote Security Group Subnet/Netmask	10.0.0/24	ex. 192.168.88.0/24
Remote Security Firewalling		

Table 2-27	IPSec Group Se	tup Instruction
------------	----------------	-----------------

parameter	Instruction
IPSec Extensions	Support Standard IPSec, GRE over IPSec, L2TP over IPSec
Local Security Interface	Defined the IPSec security interface
Local Subnet/Mask	IPSec local subnet and mask.
Local Firewall	Forwarding-firewalling for Local subnet



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parameter	Instruction	
Remote IP/Domain	IPsec peer IP address/domain name.	
Remote Subnet/Mask	IPSec remote subnet and mask.	
Remote Firewall	Forwarding-firewalling for Remote subnet	

Step 2 Please click "save" to finish.

2.11.4.2 IPSec Basic Setup

Step 1 IPSec >Basic Setup to check or modify the relevant parameter.

Group Setup Basic Setup Advanced Setup	
Keying Mode	IKE with Preshared Kev
Phase 1 DH Group	Group 2 - modp1024 🔻
Phase 1 Encryption	3DES (168-bit)
Phase 1 Authentication	MD5 HMAC (96-bit)
Phase 1 SA Life Time	28800 seconds
Phase 2 DH Group	Group 2 - modp1024 🔻
Phase 2 Encryption	3DES (168-bit)
Phase 2 Authentication	MD5 HMAC (96-bit)
Phase 2 SA Life Time	3600 seconds
Preshared Key	

Table 2-28	IPSec Basic Setup	Instruction
10010 2 20	Il Oco Duolo Octup	moduom

parameter	Instruction	
Keying Mode	IKE preshared key	
Phase 1 DH Group	Select Group1, Group2, Group5 from list. It must be matched to remote IPSec setting.	
Phase 1 Encryption	Support 3DES, AES-128, AES-192, AES-256	



parameter	Instruction
Phase 1 Authentication	Support HASH MD5 and SHA
Phase 1 SA Life Time	IPSec Phase 1 SA lifetime
Phase 2 DH Group	Select Group1, Group2, Group5 from list. It must be matched to remote IPSec setting.
Phase 2 Encryption	Support 3DES, AES-128, AES-192, AES-256
Phase 2 Authentication	Support HASH MD5 and SHA
Phase 2 SA Life Time	IPSec Phase 2 SA lifetime
Preshared Key	Preshared Key

Step 2 Please click "save" to finish.

2.11.4.3 IPSec Advanced Setup

Step 1 IPSec >Advanced Setup to check or modify the relevant parameter.

Group Setup Basic Setup	Advanced Setup
Aggressive Mode	
Compress(IP Payload Compres	iion)
Dead Peer Detection(DPD)	
ICMP Check	
IPSec Custom Options 1	
IPSec Custom Options 2	
IPSec Custom Options 3	
IPSec Custom Options 4	



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 Table 2-29
 IPSec Advanced Setup Instruction

parameter	Instruction
Aggressive Mode	Default for main mode
ID Payload Compress	Enable ID Payload compress
DPD	To enable DPD service
ICMP	ICMP Check for IPSec tunnel
IPSec Custom Options	IPSec advanced setting such as left/right ID.

Step 2 Please click "save" to finish.

----End

2.12 Administration

2.12.1 Identification Setting

Step 1 Please click "Administrator> Identification" to enter the GUI, you may modify the router name, Host name and Domain name according to self-requirement.

Status	•	Already changed login password successfully.	
Basic Network		Router Identification	
🕏 WLAN			D. In
Advanced		Router Name	Router
Network		Hostname	Router
S Firewall		Domain Name	
VPN Tunnel			
R Administration		Save 🗸 Cancel 🗙	
Identification			

Router Identification

Router Name	Router	
Hostname	Router	
Domain Name		

Save√ Cancel x

Table 2-30 Router Ide	entification Instruction
-----------------------	--------------------------

Parameter	Instruction	
Router name	Default is router, can be set	maximum 32 character
Host name	Default is router, can be set	maximum 32 character



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Parameter	Instruction
Domain name	Default is empty, support maximum up to 32 character, it is the domain of WAN, no need to configure for most application.

Step 2 Please click "save" to finish

----End



2.12.2 Time Setting

Step 1 Please click "Administrator> time" to check or modify the relevant parameter.

۲	Status	•	Time	
Q	Basic Network	23	And South Street Street	
\$	WLAN	•	Router Time	Sat, 01 Jan 2000 09:01:24 +0800 Clock Sync.
@	Advanced Network	•	Time Zone	UTC+08:00 China, Hong Kong, Western Australia, Singapore, Taiwan
8	Firewall	•		a a a a a a a a a a a a a a a a a a a
٠	VPN Tunnel	•	Auto Daylight Savings Time	
累	Administration	*		
-	Identification		Auto Update Time	Every 4 Hours 🔻
	Time		Trigger Connect On Demand	
-	Admin Access			
	Scheduled Reboot		NTP Time Server	Asia 🔻
	SNMP			
	Storage Settings			0.asia.pool.ntp.org, 1.asia.pool.ntp.org 2.asia.pool.ntp.org
	M2M Settings			
	Configuration			
a de la composición d	Logging		Save - Cancel ×	
-	Upgrade			



If the device is online but time update is fail, please try other NTP Time Server.

Step 2 Please click "save to finish.

----End



2.12.3 Admin Access Setting

Step 1 Please click "Administrator>Admin" to check and modify relevant parameter.

In this page, you can configure the basic web parameter, make it more convenient for usage. Please note the "password" is the router system account password.

		 *	
۲	Status	WebAccess	×
Ø	Basic Network		
		Web Style	GUI3.0 *
7	WLAN		
	Advanced Network	Local Access	нттр т
8	Firewall	HTTP Access Port	80
٩	VPN Tunnel	Remote Access	Disabled 🔻
	Administration		
-	Administration		
	Identification	Allow Wireless Access	
	Time		
	Admin Access	Block WAN Ping	
	Scheduled Reboot	SSH Enable at Startup	
	SNMP	Soft Endble at Startap	
	Storage Settings	Allow Telnet Remote Access	
	M2M Settings	Allow Telhet Remote Access	
	Configuration		
	Logging		
	Upgrade	Password	×

Step 2 Please click save iron to finish the setting

----End

2.12.4 Schedule Reboot Setting

Step 1 Please click "Administrator>Schedule Reboot" to check and modify relevant parameter.

Status			Already changed login password successfully.
Basic Network	•	Scheduled Reboot	
WLAN		5.11.1	
Advanced		Enabled	
twork	*	Time	1:00 AM
Firewall	>	Days	Sun Mon Tue Wed Thu Fri Sat Vern
VPN Tunnel	>	Days	
Administration	n 🗸	Save ✓ Cancel ×	
Identification		Savev	
Time			
Admin Access	5		
Scheduled Re	boot		

Step 2 Please click save iron to finish the setting

----End

2.12.5 SNMP Setting

Step 1 Please click "Administrator>SNMP" to check and modify relevant parameter.

Status -		
Basic Network	SNMP Settings	
ক wlan >	Enable SNMP	
Advanced Network	Port	161
🔯 Firewall 🔸		
UVPN Tunnel	Remote Access	
롰 Administration 💙	Allowed Remote	
Identification		(optional; ex: "1.1.1.1", "1.1.1.0/24", "1.1.1.1 - 2.2.2.2" or "me.example.com")
Time		
Admin Access	Location	router
Certificate Scheduled Reboot	Contact	admin@router
SNMP		
Storage Settings	RO Community	rocommunity
M2M Settings	Custom OID :	
Configuration		
Logging	1.3.6.1.4.1.2021.505	eg:/bin/nvram get snmp_enable
Upgrade	1.3.6.1.4.1.2021.506	
① More Info	1.3.6.1.4.1.2021.506	

Step 2 Please click save iron to finish the setting

----End

2.12.6 Storage Setting

Step 1 Please click "Administrator>Storage Setting" to check and modify relevant parameter.

0	Basic Network	>				
	WLAN		Storage settings			×
۲	Advanced Network		Storage	Router Total :5,184.00 i	KB Free:4,924.00 KB	
8	Firewall					
٩	VPN Tunnel		Upload new file			~
Я	Administration		No file chosen	Choose File Upload		
	Identification					
	Time					
	Admin Access		Current file list			~
	Scheduled Reboot		current me not			
	SNMP		File name	File size	File operation	
	Storage Settings					
	M2M Settings					
	Configuration					
	Logging		Save ✓ Cancel ×			
	Upgrade					

Step 2 Please click save iron to finish the setting

NOTE WL-G200 series router doesn't support extra storage. The storage path is Router as default.

----End

2.12.7 M2M Access Setting (Apply to M2M Management Platform installation application only)

Step 1 Please click "Administrator>M2M Access" to check and modify relevant parameter.

Status	m2m	
Basic Network	M2M Enabled	
🗟 WLAN	Fail Action	Restart M2M *
Advanced Network	Device ID	
S Firewall		
VPN Tunnel	M2M Server/Port	: 8000
R Administration		
Identification	Heartbeat Intval	60 (seconds)
Time	Heartbeat Retry	10 (Range10-1000)
Admin Access		
Scheduled Reboot		
SNMP	Named-Pipe Enabled	Remote Connect 🔻
Storage Settings	Named-Pipe Server Port	8002 (Range:1024-65535)
M2M Settings	Named-Fipe Server Forc	(unifier on a court)
Configuration	Named-Pipe Status	Offline
Logging		
Upgrade	Named-Pipe Address	0.0.0

Step 2 Please click save iron to finish the setting

----End

2.12.8 Configuration Setting

Step 1 Please click " Administrator> Configuration " to do the backup setting

Ø	Basic Network	>	
*	WLAN		Backup Configuration
s	Advanced Network		router_015_m1E202D cfg Backup 🛆
Ø	Firewall		Save As Default Configuration
4	VPN Tunnel		Save
黒	Administration		Restore Configuration
+	Identification		Select the configuration file to restore:
	Time		No file chosen Choose File Restore
-	Admin Access		
	Scheduled Reboot		Restore Default Configuration
	SNMP		Select. • OK
-	Storage Settings		
	M2M Settings		Total / Free NVRAM: 64.00 KB / 39,45 KB (61.63%)
	Configuration		
-	Logging		
44	Upgrade		
	① More Info		

Figure 3-1 Backup and Restore Configuration GUI

CAUTION

Restore Default would lose all configuration information, please be careful.

Step 2 After setting the backup and restore configuration. The system will reboot automatically.

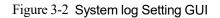
----End



2.12.9 System Log Setting

Step 3 Please click "Administrator> Logging" to start the configuration, you can set the file path to save the log (Local or remote sever).

Basic Network	•	Culor		
🗟 WLAN		Syslog		Ň
Advanced Network		Log Internally		
🔯 Firewall		Log To Remote System		
VPN Tunnel		Generate Marker	Every 1 Hour 🔹 🔻	
R Administration		Limit	60 (messages per minute / 0 for unlimited)	
Identification		Limit	60 (messages per minute / u tor unimited)	
Time				
Admin Access		Save√ Cancel×		
Scheduled Reboot				
SNMP				
Storage Settings				
M2M Settings				
Configuration				
Logging				
Upgrade				
 More Info 				



Step 4 After configure, please click "Save" to finish.

----End



2.12.10 Firmware upgrade

Step 5 Please click "Administrator>firmware upgrade" to open upgrade firmware tab.

Basic Network	<u> </u>		
😤 WLAN		Upgrade Firmware	
Advanced Network		Select the file to use: No file chosen Choose File Upgrade	
		After flashing, erase all data in NVRAM memory	
Firewall		Aiter nasning, erase ali data in xvxxxiv memory	
VPN Tunnel			
R Administration		Current Version: G5.0.1.5-200131-120346	
Identification		Free Memory: 86.79 MB (aprox. size that can be buffered completely in RAM)	
Time			
Admin Access			
Scheduled Reboot	te de la companya de		
SNMP			
Storage Settings			
M2M Settings			
Configuration			
Logging			
Upgrade			

Figure 3-3 Firmware Upgrade GUI



When upgrading, please don't cut off the power.

2.12.11 **"Reset" Button for Restore Factory Setting**

If you couldn't enter web interface for other reasons, you can also use this way. "Reset" button is near to Console port in WL-G200 panel, This button can be used when the router is in use or when the router is turned on.

Press the "RST" button and keep more than 8 seconds till the NET light stopping blink. The system will be reverted to factory.

Parameter	Default setting
LAN IP	192.168.1.1
LAN Subnet Mask	255.255.255.0
DHCP server	Enable
User Name	admin
Password	admin

Table 2-31 System Default Instruction

NOTE

After reboot, the previous configuration would be deleted and restore to factory settings.

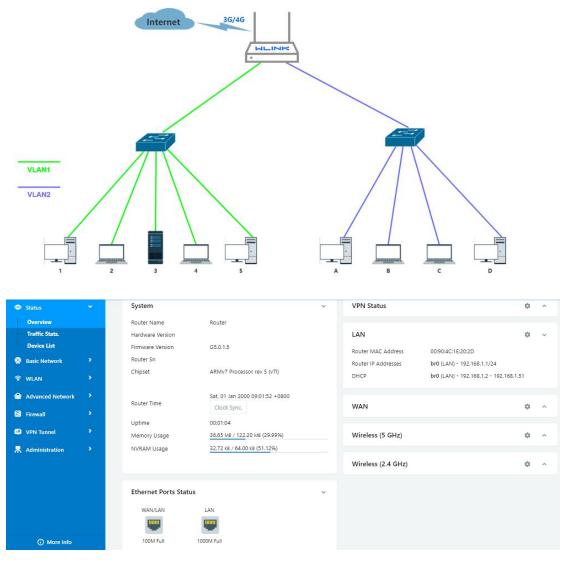


3 Configuration Instance

This chapter is mainly for configured test case, there would be some difference between the scheme and real object. But the difference doesn't have any influence to products performance.

3.1 VLAN

WL-G200 supports VLAN partition based on Ethernet port (LAN1~LAN2)



1) Configure LAN with Basic Network.

Status	•		You h	aven't changed the de	efault password for this i	router. To change rou	ter password <u>click here.</u>	
Basic Network	*							
WAN		LAN						
Cellular		Bridge	^	IP Address	Subnet Mask	DHCP Server	IP Pool	Lease(minutes
LAN		br0		192.168.1.1	255.255.255.0	~	192.168.1.2 - 51	1440
VLAN		510		192.100.1.1	200.200.200.0		152.100.1.2 51	1440
Schedule		br1		192.168.10.1	255.255.255.0	~	192.168.10.100 - 120	1440
DDNS Routing		br2		192.168.20.1	255.255.255.0	~	192.168.20.100 - 120	1440
🕅 WLAN	20	3	*					
Advanced Network	•					_		
Firewall	\$ 2	Add+						
VPN Tunnel	•	Save ✓ Ca	ncel×					
Administration								

2) If untag for br1 ad br2, it won't be accessed between SW1 and SW2.

O Status	•			You	ı haven't ch	nanged the	e default p	assword fo	or this rout	er. To cha	nge router	password	click here.	
Basic Network	~													
WAN		V	'LAN											
Cellular			VID ^	LAN 1	Tagged	LAN 2	Tagged	LAN 3	Tagged	LAN 4	Tagged	WAN	Tagged	Bridge
LAN VLAN			0	~	×	×	×	×	×	×	×	×	×	br1
Schedule			1	×	×	~	×	~	×	×	×	~	×	br0
DDNS			2	×	×	×	×	×	×	×	×	×	×	WAN
Routing			-											
🗟 WLAN	>		3	×	×	×	×	×	×	~	×	×	×	br2
Advanced Network	>		4 *											none
🔯 Firewall	•	1.1	Add+											
VPN Tunnel	>													
				ancel×										

3) If tag for br1 and br2, it will be accessed between sw1 and sw2.

			100	navenituri	angeu th	e delauit p		or this rout	er. to chai	ige router	password	<u>click here.</u>	
Basic Network	× .	10.001											
WAN		VLAN											
Cellular		VID ^	LAN 1	Tagged	LAN 2	Tagged	LAN 3	Tagged	LAN 4	Tagged	WAN	Tagged	Bridge
LAN		0	~	~	×	×	×	×	×	×	×	×	br1
VLAN		0	×	•	<u>^</u>	<u>^</u>	^	<u>^</u>	<u>^</u>	<u> </u>	<u>^</u>	Ŷ	ыт
Schedule		1	×	×	5	×	~	×	×	×	1	×	br0
DDNS		2	×	×	×	×	×	×	×	×	×	×	WAN
Routing		-					00400	2172			1120		
🗟 WLAN	•	3	×	×	×	×	×	×	~	~	×	×	br2
Advanced Networ	c >	4 *											none
🔞 Firewall	>	Add+											
VPN Tunnel	>												
	10 M 10	Save√ C	ancel×										

----End



3.2 WAN Backup (WAN as Main, Cellular Backup)

The WAN and Cellular backup feature can quickly switch traffic to Cellular (link2) when WAN (link1) fails, and WL-G200 brings you a stable network experience.

1) Navigate to Basic **Network > WAN**, you may configure the WAN parameters with your situation

Status	•		You haven't changed the default password for this router. To change router password <u>click here.</u>
Basic Network WAN		WAN / Internet	
Cellular		Туре	Static Address V
VLAN		IP Address	Disabled DHCP PPPoE
DDNS Routing		Subnet Mask	Static Address 255:255:255:0
🕏 WLAN		Gateway	192.168.10.1
Advanced Network		MTU	Default T500
 Firewall VPN Tunnel 		Primary DNS	192.168.10.1
R Administration		Secondary DNS	0.0.0.0
		Save ✓ Cancel ×	

2) Navigate to Basic Network > VLAN, enable the LAN1 as WAN Ethernet

WAN		VLAN												~
Cellular LAN		VID ^	LAN 1	Tagged	LAN 2	Tagged	LAN 3	Tagged	LAN 4	Tagged	WAN	Tagged	Bridge	
VLAN		1	~	×	~	×	~	×	~	×	×	×	br0	
Schedule		2	×	×	×	×	×	×	×	×	~	×	WAN	
DDNS Routing		0 *											none	۷
🖻 WLAN	•	Add +												
Advanced N	etwork													
Firewall	>	Save 🗸 🛛 Can	cel ×											
VPN Tunnel	•													
Administrati	ion >													

3) Navigate to **Basic network > Cellular**, configure the APN as your SIM

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۲	Status	Basic Settings SIM 1	
٢	Basic Network	Mode	Auto 🔻
	WAN		
	Cellular	PIN Code	
	LAN		
	VLAN	APN	3GNET
	Schedule		CARD
	DDNS	User	CARD
	Routing	Password	
-	WLAN		
	Advanced Network	Dial Number	*99#
8	Firewall	Auth Type	Auto 🔻
٥	VPN Tunnel	Local IP Address	
Ж	Administration		
		Save ✓ Cancel ×	
	(i) More Info		

4) Navigate to **Basic Network > Schedule**, configure WAN (Link1) preferred, Cellular backup (Link2)

Add ICMP Check to WAN Set the working mode (Schedule)

Status	•	Enabled L	inks					~
Basic Network		Link Name		Link Type		Description		
— WAN		modem		ECM/QMI				
Cellular		wan		WAN(STATI	9			
- LAN - VLAN								
Schedule		ICMP Che	ck					~
DDNS		On Li	ink	Destination	Interval	Retries	Description	
Routing								×
🗣 WLAN		~ W	an	8.8.8.8	20	5	WAN Port	
Advanced Network		~						
🔞 Firewall		Add +						
VPN Tunnel		HUUT						
R Administration								
		Schedule						~
		On	Link 1	Link 2	Policy	Description		
		4	wan	modem	BACKUP	WAN (Link1) preferred, Cellular (Link2) backup		
		~	modem 🔻	modem 🔻	FAILOVER .			
		Add +						
		_						
① More Info		Save√	Cancel×					

Parameters	Instruction
modem	The router dial-up to network via modem
wan	The router dial-up to network via WAN (DHCP, PPPOE, Static IP) Ethernet
ICMP Check	When the ICMP Check fails, the switching action between Link1 and Link2
	will be triggered
Link1	The preferred link
Link2	The alternate link
BACKUP	Backup mode, Link1 and Link2 will remain online at the same time
FAILOVER	Failover mode, Link2 will dial-up to network when link1 fails

5) Status: WAN working

	深圳市德作	ink Technology Co., LTD 专物联技术有限公司	WL-G200 S	eries Router Us	er Man	ua
 Status Overview Traffic Stats. Device List Basic Network WLAN Advanced Network Firewall VPN Tunnel Administration 	Hardware Version Firmware Version Router Sn Chipset Router Time Uptime Memory Usage NVRAM Usage	G5.0.1.5 ARMV7 Processor rev 5 (v71) Sat, 01 Jan 2000 09:02:47 +0800 Clock Sync. 00:01:59 36:75 MB / 122.20 MB (30.07%) 32:55 KB / 64:00 KB (50.86%)	Connection Type Modem IMEI Modem Status Cellular ISP Cellular ISP Cellular Network USIM Status CSQ IP Address Subnet Mask Gateway DNS Connection Status Connection Uptime	WAN Searching Unknown 0 192.168.10.113 255.255.255.0 192.168.10.1 8.8.8.653 Connected 00.01.33		
	WAN/LAN		Wireless (5 GHz)		٥	^
	100M Full	1000M Full	Wireless (2.4 GHz)		0	^

6) The system quickly switches traffic to Cellular when the WAN fails ---End

3.3 Port Forwarding

1) The router online and got a public IP address 14.31.134.94

Note: It's based on SIM card carrier

2) The PC is connected to router and got IP address 192.168.1.24

Status	~	Router Name	Ethernet 3 Status		Connection Type	Cellular Network		
Overview		Hardware Version		×	Modem IMEI	862808036518002		
Traffic Stats.		Firmware Version	General		Modem Status	Ready		
Device List		Router Sn	Connection		Cellular ISP	"CHINA TELECOM"		
Basic Network	>	Chipset	Network Connection Details	×	Cellular Network	EVDO		
			Network Connection Details:		USIM Selected	USIM Card 1 Running		
কি WLAN	*		Property Value Connection-specific DN		USIM Status	Ready		
Advanced Networ	k 🔸	Router Time	Description Realtek	USB FE Family Controller	CSQ	31		
.	>	Uptime	DHCP Enabled Yes	C-36-1C-C8	IP Address	14.31.134.94		
🔞 Firewall		Memory Usage	IPv4 Address 192.168 IPv4 Subnet Mask 255.255		Subnet Mask	255.255.255.252		
VPN Tunnel	>	NVRAM Usage		2019 9:44:38	Gateway	14.31.134.93		
R Administration			IPv4 Default Gateway 192.168	1.1	DNS	202.96.128.86:53, 202.96.134.133:53		
AT Administration	33		IPv4 DHCP Server 192.168 IPv4 DNS Server 192.168		Connection Status	Connected		
			IPv4 WINS Server NetBIOS over Topip En No		Connection Uptime	00:01:33		
		Ethernet Ports		8f:1e12:474af59b%27	Remaining Lease Time	01:58:27		
		WAN/LAN1	IPv6 DNS Server					
		1			Wireless (5 GHz)		¢ .	~
				Close				
		Unplugged			MAC Address	34:0A:94:01:51:04		
 More Info 					Wireless Mode	Access Point		

3) Configuration

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Status			Yo	u haven't changed th	ne default passwor	d for this router. T	o change router pass	word <u>click here.</u>
Basic Network		Dent	orwarding					
🗟 WLAN		Porte	-orwarding					
Advanced Networ	. •	On	Proto	Src Address	Ext Ports	Int Port	Int Address	Description 个
Port Forwarding		~	UDP		8000	8000	192.168.1.24	
Port Redirecting		~	TCP		433	433	192.168.1.24	
DMZ								
IP Passthrough			Both		8080	8080	192.168.1.24	
Triggered								
Captive Portal		De	elete × Cano	elØ OK✓				
Serial App.								
UPnP/NAT-PMP			TCP	Ŧ				
Bandwidth Limite	r		ld+					
VRRP		Ad	10 T					
Static DHCP		•	Src Address (optio	nal) - Forward only if from t	his address. ex: "1.2.3.4",	"1.2.3.4 - 2.3.4.5", "1.2.3.	0/24", "me.example.com".	
3 Firewall		•	Int Port (optional)	rts to be forwarded, as seen The destination port insid fferent internal port				rt per entry is supported when
VPN Tunnel				destination address inside th	e LAN.			

4) The PC can be accessed via 14.31.134.94:443 over Internet

---End

3.4 IP Passthrough

1) The router online

Status	•		Y	ou haven't change	d the default p	assword for	this router. To change router	r password_click here.	
Overview							and the second		
- Traffic Stats.		System				~	WAN		\$ ~
 Device List 		Router Name	Router				Connection Type	Cellular Network	
Basic Network							0.000,00000000000000000000000000000000		
		Hardware Version	C11-D20				Modem IMEI	862808036518002	
🕆 WLAN	2	Firmware Version	G5.0.1.5				Modem Status	Ready	
Advanced Network		Router Sn		11904010001			Cellular ISP	"CHINA TELECOM"	
		Chipset	ARMv71	Processor rev 5 (v7i)			Cellular Network	EVDO	
S Firewall	•						USIM Selected	USIM Card 1 Running	
VPN Tunnel		Router Time	Thu, 04	Apr 2019 09:59:42 +0800	Clock Sync.		USIM Status	Ready	
		Uptime	00:17:18				CSQ	31 🛹	
R Administration	2	Memory Usage		8 / 122.22 MB (30.76%)			IP Address	14.31.134.94	
		0 (74)		/ 64.00 KB (50.67%)			Subnet Mask	255.255.255.252	
		NVRAM Usage	52.45 KB	/ 64.00 KB (50.07%)			Gateway	14.31.134.93	
							DNS	202.96.128.86:53, 202.96.134.133:53	
							Connection Status	Connected	
		Ethernet Ports Status				~	Connection Uptime	00:16:09	
							Remaining Lease Time	01:43:51	
		WAN/LAN1	LAN2	LAN3	LAN4				
		11 I I I I I I I I I I I I I I I I I I		1	1		ine a marchine		
		Unplugged	100M Full	Unplugged	Unplugged		Wireless (5 GHz)		\$ ~
		Chiplogged	100111101	on progged	onprogged		MAC Address	34:0A:94:01:51:04	
							Wireless Mode	Access Point	
		VPN Status				\$ ~	Wireless Network Mode	Auto	
		No. 1 (1) (1)					Interface Status	Up (LAN)	
③ More Info		No Active VPN					Radio	Enabled 🗸	

2) Configure IP passthrough destination MAC address (PC Ethernet MAC)

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WLAN	IP Passthrough		Ethernet 3 Status	
	Enabled	~	Network Connection Deta	
Advanced Network			Network Connection Details Property	Value
Port Forwarding	MAC Address	00:E0:4C:36:1C:C8	Connection-specific DN	value
Port Redirecting			Description Physical Address	Realtek USB FE Family Controlle 00-E0-4C-36-1C-C8
DMZ	Gateway		DHCP Enabled	Yes
IP Passthrough			IPv4 Address IPv4 Subnet Mask	192.168.1.24 255.255.255.0
Triggered			Lease Obtained	04 April 2019 9:58:17
Captive Portal	Save Cancel ×		Lease Expires IPv4 Default Gateway	05 April 2019 9:58:16 192.168.1.1
Serial App.	Save Cancer A		IPv4 DHCP Server	192.168.1.1
UPnP/NAT-PMP			IPv4 DNS Server	192.168.1.1
Bandwidth Limiter			NetBIOS over Topip En Link-local IPv6 Address	No fe80::186f:1e12:474a;f59b%27
VRRP			IPv6 Default Gateway	1600.100.1612.4/46.1330.42/
Static DHCP			IPv6 DNS Server	
Firewall >				
VPN Tunnel				

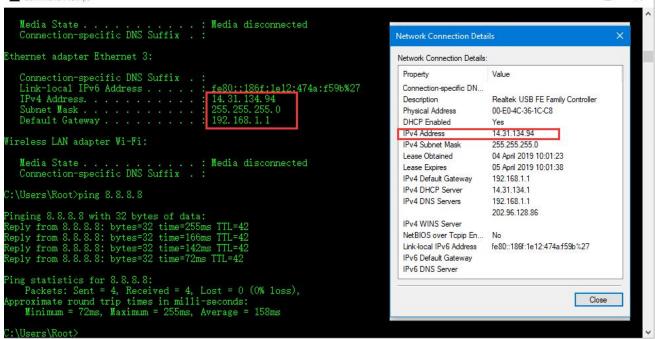
3) Set the PC to DHCP

orking Sharing nect using: Intel(R) Ethemet Connection (3) I218-V Co connection uses the following items: Cient for Microsoft Networks File and Printer Sharing for Microsoft Networks	Uge the following IP address:
Intel(R) Ethemet Connection (3) I218-V Co connection uses the following items:	this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Co s connection uses the following items:	for the appropriate IP settings.
s connection uses the following items:	Uge the following IP address:
Elient for Microsoft Networks	O Use the following IP address:
	IP address:
Packet Scheduler	Sybnet mask:
Internet Protocol Version 4 (TCP/IPv4) Internet Protocol	Default gateway:
Microsoft LLDP Protocol Driver	Obtain DNS server address automatically
	O Use the following DNS server addresses;
Install Uninstall Pro	Preferred DNS server:
second and the second se	Alternate DNS server: , , ,
vide area network protocol that provides communica	
	OK Cancel
	escription Transmission Control Protocol/Internet Protocol. The

4) Check the Ethernet status and ping test

WL-G200 Series Router User Manual

Command Prompt



5) Set the PC Ethernet as DHCP to release the IP and access to router GUI again

Ethernet Properti	es	*	Internet Protocol Version 4 (TCP/IP)	v4) Properties		
etworking Sharing			General			
Connect using:			You can get IP settings assigned au	tomatically if your network supports	s	
Intel(R) Ethem	et Connection (3) 1218-1	(this capability. Otherwise, you need for the appropriate IP settings.			
T.:	the Collection Research	Configure	ODbtain an IP address automati	cally		
	s the following items:		• Use the following IP address: -		٦	
Client for Mi	crosoft Networks iter Sharing for Microsof	Networks	IP address:	192 . 168 . 1 . 2		
🗹 🐙 QoS Packet	t Scheduler		S <u>u</u> bnet mask:	255 . 255 . 255 . 0		
Internet Protocol Version 4 (TCP/IPv4) Microsoft Network Adapter Multiplexor Protocol			Default gateway:			
	DP Protocol Driver tocol Version 6 (TCP/IP	v6) 🗸	Obtain DNS server address aut	tomatically		
<		>	• Use the following DNS server a	addresses:		
Install	Uninstall	Properties	Preferred DNS server:			
Description			Alternate DNS server:	· · ·		
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.			Validate settings upon exit	Ad <u>v</u> anced		
)K Cancel		OK Cano	el	

---End

3.5 Captive Portal

Please click "Advanced Network> Captive Portal" to check or modify the relevant parameter.

WL-G200 Series Router User Manual

Status	•	Captive Portal	
Basic Network		Enabled	
ବି WLAN		Auth Type	NONE ¥
Advanced Network			Default 🔻
Port Forwarding		WEB Root	Default
Port Redirecting DMZ		WEB Host	
 IP Passthrough Triggered 		Portal Host	
Captive Portal Serial App.		Login Timeout	0 Minutes
UPnP/NAT-PMP Bandwidth Limiter		Idle Timeout	0 Minutes
VRRP Static DHCP		Ignore LAN	
🔀 Firewall		Redirecting http://	www.google.com
VPN Tunnel		MAC Address Whitelist	
R Administration		Download QOS	
		Upload QOS	
() Marcillato		Saveur Cannel X	

1) Upload Portal file and Splash.html by local

Upload portal images and splash.html in router for the Slider (0001_portal.png, 0002_portal.png, and 0003_portal.png) to the Router under the "Administration / Storage Settings" menu.

Furthermore, also might upload splash with images together.

Status		You haven't changed the default password	d for this router. To change router password <u>click here.</u>	
Basic Network	Storage settings			v.
🗇 WLAN				
Advanced Network	Storage	Router Total :5,632.00 KB Fre	е:5,372.00 Кв	
🕺 Firewall				
VPN Tunnel	Upload new file			~
R Administration	No file chosen	Choose File Upload		
- Identification				
Time				
Admin Access	Current file list			~
Scheduled Reboot	Parente Martin State Science - 1762400			
SNMP	File name	File size	File operation	
Storage Settings	sms.list	159	× G	
M2M Settings				
DI/DO Setting				
Configuration				
- Logging	Save-✓ Cancel×			
Upgrade				
More Info				

Each Ad file just supports 3 Ad portal images. Picture format is acceptable for png/jpg and image size is less than 100Kbytes and resolution is 800*600. Picture name is 0001_portal.png, 0002_portal.png and 0003_portal.png. Furthermore, please keep image names the same between portal file and splash.html.

(i) More Info

WL-G200 Series Router User Manual

 Status Basic Network WLAN 	Storage settings	Router Total :5,632.00 ks Free:5,100.00 ks		~
Advanced Network	Upload new file	oose File Upload		~
Administration	Current file list			~
Time Admin Access Scheduled Reboot SNMP	File name 0001_portal.png	File size 23.8K	File operation	
Storage Settings M2M Settings DI/DO Setting	0002_portal.png	45.3K 46.0K 124.3K	8 × 8	
Configuration Logging Upgrade	bootstrap_portal.css jquery_portal.js splash.html	124.3К 289.7К 3.4К	* 8	



Finally, we can see the results by connect to router WIFI



ର ାଷା ଅଟେ ଖିଲା ୫୮% 🛚 17:08 Sign in to Wi-Fi network MORE

Welcome to Wi-Fi Hotspot



Welcome to our open community WiFi network!

You are solely responsible for any illegal activities once you click the *OK, I AGREE" button. We are not responsible for faulty operation of your computer or equipment. You may be asked to stop using your equipment. This banner will appear again periodically. Thank You, and Enjoy!

OK, I agree!

Modify portal file storage path Modify portal file storage for In-storage as below.

Status	Captive Portal	
😔 Basic Network 🔶	Enabled	
ବ wlan 🔸		
📾 Advanced Network 💙	Auth Type	NONE V
Port Forwarding Port Redirecting	WEB Root	In-storage 💌
DMZ IP Passthrough	WEB Host	
Triggered	Portal Host	
Captive Portal	Login Timeout	0 Minutes
Serial App. UPnP/NAT-PMP	Login Timeout	
Bandwidth Limiter	Idle Timeout	0 Minutes
VRRP Static DHCP	Ignore LAN	
Direwall	Redirecting http://	www.google.com
VPN Tunnel >	MAC Address Whitelist	
R Administration		
	Download QOS	
O More Info	Upload QOS	

3.6 GPS Settings

Please click "Advanced Network> GPS" to view or modify the relevant parameter.

⁻⁻⁻End

WL-G200 Series Router User Manual

Status	Y	ou haven't changed the default password for	this router. To change router password <u>click here.</u>
Basic Network	GPS		
ক WLAN			
Advanced Network	GPS Mode	Client	
Port Forwarding	Data Format	M2M_FMT V	
 Port Redirecting DMZ 	Server IP/Port	192.168.1.2	: 40002
IP Passthrough			
Triggered Captive Portal	Heart-Beat Content		
Serial App.	Heart-Beat Interval	5 (seconds)	
GPS UPnP/NAT-PMP			
Bandwidth Limiter	Save ✓ Cancel ×		
VRRP Static DHCP	Save V Cancel X		
Sirewall			
VPN Tunnel			
R Administration			
Austr			

Table 4-6 "GPS" Instruction

parameter	Instruction
GPS Mode	Enable/Disable
GPS Format	NMEA and M2M_FMT(WLINK)
Server IP/Port	GPS server IP and port
Heart-Beat	If choose M2M_FMT format, heart-beat ID will be packed into GPS data.
Interval	GPS data transmit as the interval time.

Step 1 Please click "save" to finis

Step 2 Connect the GPS antenna to router GPS interface

Step 3 Check GPS Status

Status	*	You haven't ch	anged the default password for this router. To change router password <u>click here.</u>
Overview			
Traffic Stats.		GPS Status	
GPS Status		Current	ОК
Device List			
Basic Network		System Type	GPS
		Satellites Numbers	05 .
रे WLAN	•	Satellites Clock	190404 - 022121.00
Advanced Network	>	Positioning	2234.22520N - 11356.63170E
		Google Map	View
3 Firewall	>		
D VPN Tunnel	2		
Administration	>		
 More Info 			





M2M_FMT Format as below.

1. GPS data structure.

Router ID, gps_date, gps_time, gps_use, gps_latitude, gps_NS, gps_longitude, gps_EW, gps_speed, gps_degrees, gps_FS, gps_HDOP, gps_MSL

2. Example

0001_R081850ac,150904,043215.0,06,2234.248130,N,11356.626179,E,0.0,91.5,1,1.2,9 7.5

3. GPS data description

Field	Name	Format	Example	Description
No.				
1	Router ID	String	0001_R081850	0001 customizable product
			ac	ID.
				_R router indicator.
				081850ac Last 8digits of
				routers MAC address.
2	gps_date	yymmdd	150904	Date in year,month,day
3	gps_time	hhmmss.ss	043215.0	UTC Time, Time of position fix.
		s		
4	gps_use	numeric	06	Satellites Used, Range 0 to 12.
5	gps_latitude	ddmm.mm	2234.248130	Latitude, Degrees + minutes.
		mm		
6	gps_NS	character	N	N/S Indicator,N=north or
				S=south.
7	gps_longitude	ddmm.mm	11356.626179	Longitude, Degrees + minutes.
		mm		
8	gps_EW	character	E	E/W indicator, E=east or
				W=west.
9	gps_speed	numeric	0.0	Speed over ground, units is
				km/h.
10	gps_degrees	numeric	91.5	Course over ground, unit is
				degree.
11	gps_FS	digit	1	Position Fix Status Indicator,
12	gps_HDOP	numeric	1.2	HDOP, Horizontal Dilution of
				Precision
13	gps_MSL	numeric	97.5	MSL Altitude, units is meter.

---End



3.7 Firewall

1) IP/MAC/Port Filtering

This part used to intercept packages from router's WAN/Celluar interface to Internet. Test case:

1.1 Only allow three devices (MAC/LAN/WLAN) can access to Internet via WAN: 110.110.10.10

1.2 Only allow three devices (MAC/LAN/WLAN) can access to the router page (192.168.1.1)

Status	•	IP/MAC/Port Filtering						
Basic Network	*	On Src MAC	Src IP	Dst IP	Protocol	Src Port	Dst Port	Policy Description
🗟 WLAN	>		any/0	any/0	<u>1</u>	2	2	Drop
Advanced Network	•	-	any/0	192.168.1.0/24	-			Accept
Firewall	~	✓ 50:7B:9D:C3:9A:22	any/0	any/0	a <u>n</u>	2	12	Accept
IP/URL Filtering Domain Filtering		✓ 60:F1:89:20:F0:9A	any/0	any/0	÷			Accept
VPN Tunnel	•	✓ 00:1E:64:DF:E8:46	any/0	any/0	-	2	74 1	Accept
R Administration	>				NON *			Accep 🔻
		Add+						
		Key Word Filtering						
		On Key Word				Description		
		Add +						

2) Key Word Filtering

This part used to filter key word packages from router's WAN/Cellular interface to Internet.

Status	2						
Basic Network	>	URL Filtering	1				
WLAN	•	On	URL		Description	1	
Advanced Network	k >	~	youtube				
🔞 Firewall		~	facebook				
IP/URL Filtering		~					
Domain Filtering							
VPN Tunnel	>	Add+					
R Administration	>	Access Filter	ing				
		On Src MAC	Src IP	Dst IP	Protocol Src Port	Dst Port	Policy Description
					¥ 10/		Acce Y
		Add +					
		Save√ Ca	ncel×				

3) URL Filtering

This part used to filter URL from router's WAN/Cellular interface to Internet.



4) Access Filtering

This part used to filter packages from Internet to router's WAN/Celluar interface.

Test case:

4.1) Intercept all TCP packets accessing the router's WAN/Celluar(110.110.10.10).

4.2) Only two devices (MAC/LAN/WLAN) are allowed to be accessed from Internet packets.

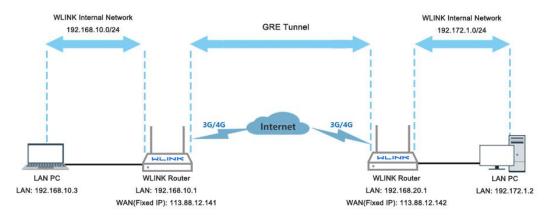
WLIN	K	=					Tools 🛠	Bandwidth 🞽	IP Traffic 📶	System 🏚
Status	>	🗸 уот	itube							
Basic Network		✓ fac	ebook							
ବି WLAN										
😭 Advanced Network		Add+								
🐼 Firewall										
IP/URL Filtering		Access Filtering								
Domain Filtering		On Src MAC	Src IP	Dst IP	Protocol	Src Port	Dst Port	Policy	Description	
💷 VPN Tunnel		J -	any/0	any/0	TCP	-	-	Drop		×
R Administration		✓ 00:1E:64:DF:E8:		any/0			3 5	Accept		
		✓ 60:F1:89:20:F0:	9A any/0	any/0	TCP	-	-	Accept		
					NOI ¥			Acce 🔻		
		Add+								
		Save 🗸 🛛 Cancel	×							
① More Info										

---End

3.8 VPN Tunnel

3.8.1 GRE

GRE Tunnel between WL-R200 and WL-G200



1) WL-G200(A) Config



WL-G200 Series Router User Manual

Navigate to Basic Network > LAN

Status	•	You	haven't changed the de	fault password for this i	router. To change rout	er password <u>dick I</u>
Basic Network	~				en e	
WAN		LAN				
Cellular		Bridge 🔨	IP Address	Subnet Mask	DHCP Server	IP Pool
LAN		br0	192.168.10.1	255.255.255.0	~	192.168.10.2 - 51
VLAN Schedule						
DDNS		1 *				
Routing					_	
🗟 WLAN	•	Add+				
Advanced Networl	4) (?					
🔞 Firewall	>	Save ✓ Cancel ×				
VPN Tunnel	•					

Navigate to VPN Tunnel > GRE

۵	Status	GR	E Tur	inel								~
Q	Basic Network	Or	n Id	x ^	Tunnel Address	Tunnel Source	Tunnel Destination	Keepalive	Interval	Retries	Description	
\$	WLAN	~	1		192.168.10.10	113.113.11.11	113.111.10.10	~	10	5	А	
۲	Advanced Network											
8	Firewall		Add +									
0	VPN Tunnel		Auu									
-	GRE											
-	OpenVPN Client	GR	E Rou	ite								~
-	PPTP/L2TP Client	Or		Tunnel Index	~	Destination Addre	5		Description			
-	IPSec	0.	•	i uniter mater		Destination radie			Description			×
Я	Administration	~		1		192.172.1.0/24			А			
				1								
			Add +									
				6IN								
	(i) More Info	Save		Cancel×								

2) WL-G200(B) Config Navigate to Basic Network > LAN

WL-G200 Series Router User Manual

۵	Status	Yo	u haven't changed the	default password for this	router. To change rout	er password <u>click here.</u>	
Ø	Basic Network						
-	WAN	LAN					~
	Cellular	Bridge 🔿	IP Address	Subnet Mask	DHCP Server	IP Pool	Lease(minutes)
-	LAN	br0	192.172.1.1	255.255.255.0	~	192.172.1.2 - 51	1440
	VLAN						
	Schedule DDNS	1					
	Routing						
\$	WLAN	Add+					
۲	Advanced Network						
8	Firewall	Save√ Cancel×					
٩	VPN Tunnel						
累	Administration						
	(i) More Info						

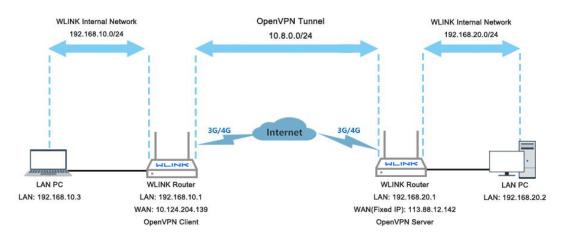
Navigate to VPN Tunnel > GRE

۲	Status	•		GRE T	Tunnel									~
Ø	Basic Network	•		On	Idx ^		Tunnel Address	Tunnel Source	Tunnel Destination	Keepalive	Interval	Retries	Description	
Ŷ	WLAN	•		~	1		192.172.1.10	113.111.10.101	113.113.11.11	~	10	5	В	
۲	Advanced Network	•		~										
Ø	Firewall	•		Ade	4+									
٩	VPN Tunnel	*		Au										
	GRE													
	OpenVPN Client			GRE F	Route									~
	PPTP/L2TP Client			11-221-15										
	IPSec			On	Τι	innel Index	^	Destination Addr	ess		Description			
*	Administration	•		~	1			192.168.10.0/24			В			×
				~		1	,	•						
				Add	4.4									
				Aut										
				Save✓	Can	cel×								
	(i) More Info		_											



WL-G200 Series Router User Manual

3.8.2 OpenVPN



OpenVPN between WL-G200 client and Server

WLIN	< =			Tools 🛠	Bandwidth 👱	IP Traffic 💻	System
Status	•	OpenVPN Client					
Basic Network	•	Client 1 Client 2					
🕆 WLAN	.						
Advanced Network	.	Basic Advanced Keys Status					
3 Firewall		VPN Client #1 (Stopped)					ь.
VPN Tunnel	•	Start with WAN					
- GRE OpenVPN Client		Interface Type	TUN 🔻				
 PPTP/L2TP Client IPSec 		Protocol	UDP V				
R Administration	•	Server Address	wlink-tech.com 1194				
		Firewall	Automatic 🔻				
		Authorization Mode	TLS 🔻				
		Username/Password Authentication					
		HMAC authorization	Disabled •				
		Create NAT on tunnel					

Please click "VPN Tunnel> OpenVPN Client" to check or modify the relevant parameter.

Parameter	Instruction
Start with WAN	Enable the Openvpn feature for 4G/3G/WAN port.
Interface Type	Tap and Tun type are optional. Tap is for bridge mode and Tunnel is for routing mode.
Protocol	UDP and TCP optional.
Server Address	The Openvpn server public IP address and port.
Firewall	Auto, External only and Custom are optional
Authorization Mode	TLS, Static key and Custom are optional.



深圳市德传物联技	术有限公司 WL-G200 Series Router User Manual			
User name/Password	As the configuration requested			
Authentication	As the configuration requested.			
HMAC authorization	As the configuration requested.			
Create NAT on tunnel	Configure NAT in Openvpn tunnel.			

Status	>	OpenVPN Client	
Basic Network	•	Client 1 Client 2	
🗢 WLAN	2	Basic Advanced Keys Status	
Advanced Network	•		
Firewall	•	VPN Client #1 (Stopped)	*
VPN Tunnel	-	Poll Interval	0 (in minutes, 0 to disable)
GRE OpenVPN Client		Redirect Internet traffic	
PPTP/L2TP Client		Accept DNS configuration	Disabled 🔻
R Administration	.	Encryption cipher	Use Default 🔹
		Compression	Adaptive *
		TLS Renegotiation Time	-1 (in seconds, -1 for default)
		Connection retry	30 (in seconds; -1 for infinita)
		Verify server certificate (tls-remote)	
		Custom Configuration	
More Info			

Parameter	Instruction
Poll Interval	Openvpn client check router's status as interval time.
Redirect Internet Traffic	Configure Openvpn as default routing.
Access DNS	As the configuration requested.
Encryption	As the configuration requested.
Compression	As the configuration requested.
TLS Renegotiation Time	TLS negotiation time1 as default for 60s.
Connection Retry Time	Openvpn retry to connection interval.
Verify server certificate	As the configuration requested.
Custom Configuration	As the configuration requested.

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Status	•	You haven't changed the default password for this router. To change router password cick here,
Basic Network		OpenVPN Client
🕏 WLAN		Client 1 Client 2
Advanced Network		
🔕 Firewall		Basic Advanced Keys Status
VPN Tunnel		VPN Client #1 (Stopped)
GRE OpenVPN Client		For help generating keys, refer to the OpenVPN HOWTO.
- PPTP/L2TP Client		Certificate Authority
IPSec		
Autombuation		Client Certificate
		Client Key
		Start Now
		Save ✓ Cancel ×

Parameter	Instruction
Certificate Authority	Keep certificate same as the server
Client Certificate	Keep client certificate same as the server
Client Key	Keep client key same as the server

Status	You haven't changed the default password for this router. To change router password <u>click here</u> .
Basic Network	
ক wlan >	OpenVPN Client
🚔 Advanced Network 🔹	Client 1 Client 2
Firewall	Basic Advanced Keys Status
GRE OpenVPN Client	VPN Client #1 (Stopped)
PPTP/L2TP Client IPSec	Client is not running or status could not be read.
R Administration	Start Now
	Save ✓ Cancel X
O More Info	
Daramatar	Instruction

Parameter	Instruction
Status	Check OpenVPN status and data statistics.

Click "save" and "start now" to enable OpenVPN when you have done all the client config.

OpenVPN Keys Guide



WL-G200 Series Router User Manual

The fllowing steps are for server running on Windows 7/8/10

Access to (http://openvpn.net/release/) and download the file "openvpn-2.3.0-install.exe" (or higher)



Index of /release

Name	Last modified	Size Description
Parent Directory		-
2 1zo-1.08-3.0.el2.dag.i386.rpm	21-Feb-2012 00:50	55K
P 1zo-1.08-3.0.rh7.dag.i386.rpm	21-Feb-2012 00:50	54K
1zo-1.08-3.0.rh8.dag.i386.rpm	21-Feb-2012 00:50	58K
2 1zo-1.08-4.0.rh9.rf.i386.rpm	21-Feb-2012 00:50	59K
1zo-1.08-4.1.el3.rf.i386.rpm	21-Feb-2012 00:50	58K
1zo-1.08-4.1.el3.rf.x86_64.rpm	21-Feb-2012 00:50	55K
2 1zo-1.08-4.1.fc1.rf.i386.rpm	21-Feb-2012 00:50	58K

After installing OpenVPN, please find the OpenVPN folder to generate the certificate of server and client. (Access to <u>http://openvpn.net</u> for more information)

DENIVONI G	oose Components	
	hoose which features of OpenVPN 2.3.0-I001 you want t istall.	0
Select the components to insta service <mark>if</mark> it is running. All DLLs	ll/upgrade. Stop any OpenVPN processes or the OpenVPI are installed locally.	N
Select components to install:	OpenVPN File Associations OpenSSL Utilities	-
	OpenVPN RSA Certificate Management Scripts	
		н
	Dependencies (Advanced)	*
and the second second second	Description	
Space required: 4.4MB	Position your mouse over a component to see its description.	
lsoft Install System v2.46-101		

WL-G200	Series	Router	User	Manual

Name ^	Date modified	Туре	Size
bin	2019-01-10 11:42	File folder	
config	2019-01-10 14:10	File folder	
doc	2019-01-10 11:42	File folder	
easy-rsa	2019-01-10 11:54	File folder	
log	2019-01-10 14:10	File folder	
sample-config	2019-01-10 11:41	File folder	
nicon.ico	2015-02-18 17:56	lcon	22 KB
🚱 Uninstall.exe	2019-01-10 11:42	Application	117 KB

Configure "vas.bat.sample" to complete the initialization step and keys

lame	Date modified	Туре	Size
keys	2019-01-10 12:04	File folder	
] .rnd	2019-01-10 12:04	RND File	1 KB
🔊 build-ca.bat	2016-01-04 20:41	Windows Batch File	1 KB
🔊 build-dh.bat	2016-01-04 20:41	Windows Batch File	1 KB
build-key.bat	2016-01-04 20:41	Windows Batch File	1 KB
🗟 build-key-pass.bat	2016-01-04 20:41	Windows Batch File	1 KB
build-key-pkcs12.bat	2016-01-04 20:41	Windows Batch File	1 KB
build-key-server.bat	2016-01-04 20:41	Windows Batch File	1 KB
🗟 clean-all.bat	2016-01-04 20:41	Windows Batch File	1 KB
index.txt.start	2016-01-04 20:41	START File	0 KB
💿 init-config.bat	2016-01-04 20:41	Windows Batch File	1 KB
openssl-1.0.0.cnf	2016-01-04 20:41	CNF File	9 KB
README.txt	2016-01-04 20:41	Text Document	2 KB
🗟 revoke-full.bat	2016-01-04 20:41	Windows Batch File	1 KB
serial.start	2016-01-04 20:41	START File	1 KB
vars.bat	2019-01-10 11:43	Windows Batch File	1 KB
vars.bat.sample	2019-01-10 11:43	SAMPLE File	1 KB

Configure the client keys to WLINK OpenVPN client GUI when you create the server and client certificate in the path OpenVPN/easy-rsa/keys Client certificate (Generated on the server)

Name	Date modified	Туре	Size
📮 ca.crt	2019-01-10 11:57	Security Certificate	2 KB
🔄 client.crt	2019-01-10 12:04	Security Certificate	4 KB
🗋 client.key	2019-01-10 12:04	KEY File	1 KB
🕥 client.ovpn	2019-01-10 14:08	OpenVPN Config	4 KB
a.key	2019-01-10 12:04	KEY File	1 KB



OpenVPN>easy-rsa>keys

Name	Date modified	Туре	WLINK	= * * *
Tiny (0 - 10 KB) (15)				
01.pem	2019-01-10 12:01	PEM File	Status	OpenVPN Client
02.pem	2019-01-10 12:04	PEM File	Basic Network	
a ca.crt	2019-01-10 11:57	Security Certificate		Client 1 Client 2
ca.key	2019-01-10 11:57	KEY File	🕆 WLAN	
client.crt	2019-01-10 12:04	Security Certificate	Advanced Network	Basic Advanced Keys Status
client.csr	2019-01-10 12:04	CSR File	Advanced Network	
client.key	2019-01-10 12:04	KEY File	🐼 Firewall 🔹 🔸	
dh1024.pem	2019-01-10_12:02	PEM File		VPN Client #1 (Stopped)
index.txt	2019-01-10 12:04	Text Document	💭 Ven onel 👻	For help generating keys, refer to the OpenVPN HOWTO.
index.txt.attr	2019-01-10 12:04	ATTR File	GRE	
serial	2019-01-10 12:04	File	OpenVPN Client	Certificate Authority FsiPXdHAWUFW/eOmtXQdeXi4xFdJ/AXHFYWbFysJ+ul/aaD
server.crt	2019-01-10 12:01	Security Certificate	PPINE 2TP Client	quDDun6eL9ngQKMfCVjaxG0bjQhcs5SNWwcPmXn/em+is
server.csr	2019-01-10 12:01	CSR File	IPSec	END CERTIFICATE
server.key	2019-01-10 12:01	KEY File	Administration	
ta.key	2019-01-10 12:04	KEY File	Administration	Client Certificate xBPO+gmlCuPBLpSPNwt18+OVFXOXpdDrLFe/wUhO8xlijZ a7
				QbTzIHIz2pRB6iO3VEV7sw==
				END CERTIFICATE
				+j5ZKNBejs0zicfhQQNhhqdplhl1UGUksaql0Fp0OkvgAKYu
				Client Key WH
				tYOrsqNxQhfj6RALBgJU2mbWCjnUi6ZX/GicBrPyaB/qy0=
				END CERTIFICATE
				Start Now
				100 00
		>		Save 🗸 Cancel X

Ping test to your server when the tunnel is established

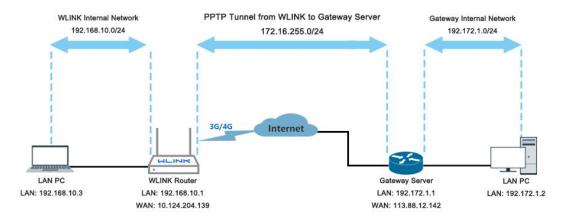
Basic Network	*	Basic Advanced Keys	Status		
ଟି WLAN	2				
Advanced Network	•	VPN Client #1 (Running)			
Firewall	•	Data current as of Thu Apr 4 11:3	14:22 2019.		
VPN Tunnel		General Statistics			
		Name		Value	
GRE		TUN/TAP read bytes		0	
OpenVPN Client			Command Prompt - C X		
PPTP/L2TP Client		TUN/TAP write bytes	(c) 2017 Microsoft Corporation. All rights reserved.	0	
IPSec		TCP/UDP read bytes	C:\Users\Root>ping 10.8.0.1	7168	
K Administration	*	TCP/UDP write bytes	Pinging 10.8.0.1 with 32 bytes of data:	5531	
		Auth read bytes	Reply from 10.8.0.1: bytes=32 time=13ms TTL=63 Reply from 10.8.0.1: bytes=32 time=21ms TTL=63	48	
		pre-compress bytes	Reply from 10.8.0.1: bytes=32 time=10ms TTL=63 Reply from 10.8.0.1: bytes=32 time=16ms TTL=63	0	
		post-compress bytes	Ping statistics for 10.8.0.1: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),	0	
		pre-decompress bytes	Approximate round trip times in milli-seconds:	0	
		post-decompress bytes	Minimum = 10ms, Maximum = 21ms, Average = 15ms	0	
			C:\Users\Root>_		Refresh Status

---End

3.8.3 L2TP/PPTP

Please click "VPN Tunnel>PPTP/L2TP Client" to view or modify the relevant parameter.

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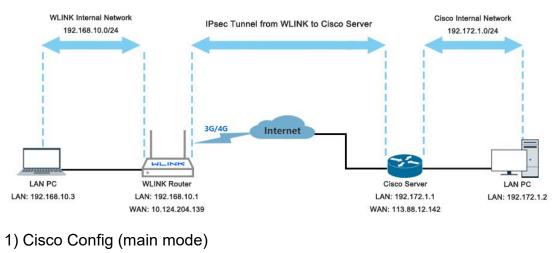
Configured as PPTP

		L2TP/PPTP Basic									
Basic Network	•	On	Protocol ^	Name	Server	Username	Password	Firewall	Default Rout	e Local IP	
WLAN	•	~	PPTP	3	wlinktech.com.cn	test123	test123	~	×		>
Advanced Network	•		L2TP	•		1					
Firewall	18	Add+									
VPN Tunnel											
GRE OpenVPN Client		L2TP Advanced									
PPTP/L2TP Client		On	Name 🔿	Accept DNS	MTU	MRU		Tunnel Auth	Tunnel Password	Custom Options	
Administration	•			NO	Ŧ						
		Add +									
		PPTP Advanced	Name e	Accord DNIS		MOL		MDE	MORE Challenged	Custom Onlines	
		_	Name 🔨	Accept DNS	мти	MRU		MPPE	MPPE Stateful	Custom Options	
		PPTP Advanced	Name へ 3	Accept DNS NO	MTU 1440	MRU 1440		MPPE ~	MPPE Stateful	Custom Options debugnoipdefaultreq mppe-128	_
		PPTP Advanced				0.01-0.00				debug;noipdefault;req	_

Note: The Custom Options are based on your server ---End

3.8.4 IPSec





!



```
crypto isakmp policy 10
encr 3des
hash md5
authentication pre-share
group 2
crypto isakmp key test1234 address 0.0.0.0 0.0.0.0
!
```

crypto ipsec transform-set Tran-set esp-3des esp-sha-hmac crypto ipsec nat-transparency spi-matching

```
2) WLINK Config
```

!

Navigate to	VPN Tun	nel > IPSec	> Group	Setup

Status	You haven't changed the default password for this router. To change router password click here,						
Basic Network							
🗟 WLAN	IPSec						
Advanced Network	IPSec 1 IPSec 2 Schedule						
🔕 Firewall	Group Setup Basic Setup Advanced Setup						
VPN Tunnel							
GRE	Enable IPSec						
OpenVPN Client PPTP/L2TP Client	IPSec Extensions	Normal					
IPSec	Local Security Gateway Interface	3G Cellular 🔻					
R Administration	Local Security Group Subnet/Netmask	192.168.1.0/24	ex. 192.168.1.0/24				
	Local Security Firewalling						
	Remote Security Gateway IP/Domain	113.88.13.142					
	Remote Security Group Subnet/Netmask	10.10.0.0/24	ex 192.168.88.0/24				
	Remote Security Firewalling						
	Save 🗸 Cancel 🗙						

Navigate to VPN Tunnel > IPSec > Basic Setup

Status >	IPSec 1 IPSec 2 Schedule	
Basic Network		
[≥] WLAN →	Group Setup Basic Setup Advanced S	etup
Advanced Network	Keying Mode	IKE with Preshared Key
Firewall	Phase 1 DH Group	Group 2 - modp1024 ¥
🕽 VPN Tunnel 🛛 👻		
GRE	Phase 1 Encryption	3DES (168-bit) 🔻
OpenVPN Client PPTP/L2TP Client	Phase 1 Authentication	MDS HMAC (96-bit)
IPSec	Phase 1 SA Life Time	28800 seconds
Administration		
	Phase 2 DH Group	Group 2 - modp1024 🔻
	Phase 2 Encryption	3DES (168-bit) •
	Phase 2 Authentication	SHA1 HMAC (96-bit)
	Phase 2 SA Life Time	3600 seconds
	Preshared Key	

Navigate to VPN Tunnel > IPSec > Advanced Setup

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Status	•	IPSec									
Basic Network	2	IPSec 1 IPSec 2 Schedule									
🗢 WLAN	(2)	1998 1 1998 2 Solisone									
Advanced Network		Group Setup Basic Setup Advanced Setup									
Firewall	(Aggressive Mode									
VPN Tunnel		Compress(IP Payload Compression)									
— GRE — OpenVPN Client		Dead Peer Detection(DPD)									
PPTP/L2TP Client IPSec		ICMP Check		<u>~</u>							
R Administration	2	Check Period Time Interval		10	seconds						
		Check Timeout Count		3	Times						
		Check IP		10.10.0.1							
		IPSec Custom Options 1		rightid=%any							
		IPSec Custom Options 2									
		IPSec Custom Options 3									
		IPSec Custom Options 4									
① More Info		Save 🗸 Cancel 🗙									
Status							Wireless Mode		Access Point		
Overview		VPN Status				\$ ~	Wireless Netw Interface Statu		Auto Up (LAN)		
Traffic Stats. GPS Status		Name	2				Radio		Enabled ~		
- Device List		Protocol	L2TP				SSID		router-wifi_015103_5G		
Basic Network		Connection Status	Disconnect	ted			Broadcast		Enabled 🗸		
		IP Address	0.0.0.0				Security		disabled		
🗇 WLAN		IPSec 1	Gateway 0.0.0.0 IPSec 1 Connected			_	Channel		149 - 5.745 GHz		
Advanced Network		Phase 1 Status	21 seconds				Channel Width		80 MHz		
S Firewall		Phase 1 IKE 3DES_CBC/HMAC_MD5_96/PRF_HMAC_MD5/MODP_1024			1024	Interference Le	evel	Acceptable			
		Phase 2 Status	TUNNEL	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Rate		433 Mbps		
VPN Tunnel		Phase 2 ESP 3DE5_CBC/HMAC_SHA1_96									
		Phase 2 ESP	3DES_CBC/	HMAC_SHA1_96	5						
⊼ Administration		IPSec Recv.	84 Bytes	/HMAC_SHA1_96	5		Wireless (2.	4 GHz)			¢ ~
Administration				/HMAC_SHA1_96	5		Wireless (2. MAC Address		34:0A:94:01:51:03		¢ ~
R Administration		IPSec Recv.	84 Bytes	/HMAC_SHA1_96	ŝ				34:0A:94:01:51:03 Access Point		¢ v
Administration		IPSec Recv.	84 Bytes	/HMAC_SHA1_96	6	¢ ~	MAC Address Wireless Mode Wireless Netw	e Iork Mode	Access Point Auto		¢ ×
Administration		IPSec Reci. IPSec Send.	84 Bytes 84 Bytes		3	¢ ~	MAC Address Wireless Mode Wireless Netw Interface Statu	e Iork Mode	Access Point Auto Up (LAN)		¢ ~
Administration		IPSec Recv. IPSec Send.	84 Bytes 84 Bytes 34:0A:94:01			¢ ~	MAC Address Wireless Mode Wireless Netw Interface Statu Radio	e Iork Mode	Access Point Auto Up (LAN) Enabled ~		¢ v
Administration		IPSec Reci. IPSec Send. LAN Router MAC Address	84 Bytes 84 Bytes 34:0A:94:01 br0 (LAN) -	1:51:01		¢ ~	MAC Address Wireless Mode Wireless Netw Interface Statu Radio SSID	e Iork Mode	Access Point Auto Up (LAN) Enabled ✓ router-wiff_015103		¢ v
Administration		IPSec Recv. IPSec Send. LAN Router MAC Address Router IP Addresses	84 Bytes 84 Bytes 34:0A:94:01 br0 (LAN) -	1:51:01 - 192.168.1.1/24		¢ ~	MAC Address Wireless Mode Wireless Netw Interface Statu Radio SSID Broadcast	e Iork Mode	Access Point Auto Up (LAN) Enabled ~ router-wiff_015103 Enabled ~		¢ v
Administration		IPSec Recv. IPSec Send. LAN Router MAC Address Router IP Addresses	84 Bytes 84 Bytes 34:0A:94:01 br0 (LAN) -	1:51:01 - 192.168.1.1/24		¢ ~	MAC Address Wireless Mode Wireless Netw Interface Statu Radio SSID Broadcast Security	e Iork Mode	Access Point Auto Up (LAN) Enabled ~ router-wifi_015103 Enabled ~ disabled		¢ ~
Administration		IPSec Recv. IPSec Send. LAN Router MAC Address Router IP Addresses	84 Bytes 84 Bytes 34:0A:94:01 br0 (LAN) -	1:51:01 - 192.168.1.1/24		¢ ~	MAC Address Wireless Mode Wireless Netw Interface Statu Radio SSID Broadcast Security Channel	e vork Mode Is	Access Point Auto Up (LAN) Enabled ~ Istabled a disabled 7 - 2.442 GHz		¢ ~
Administration		IPSec Recv. IPSec Send. LAN Router MAC Address Router IP Addresses	84 Bytes 84 Bytes 34:0A:94:01 br0 (LAN) -	1:51:01 - 192.168.1.1/24		¢ ~	MAC Address Wireless Mode Wireless Netw Interface Statu Radio SSID Broadcast Security	e vork Mode Js	Access Point Auto Up (LAN) Enabled ~ router-wifi_015103 Enabled ~ disabled		¢ ~
Administration		IPSec Recv. IPSec Send. LAN Router MAC Address Router IP Addresses	84 Bytes 84 Bytes 34:0A:94:01 br0 (LAN) -	1:51:01 - 192.168.1.1/24		¢ ~	MAC Address Wireless Mode Wireless Netw Interface Statu Radio SSID Broadcast Security Channel Channel Widt	e vork Mode Js	Access Point Auto Up (LAN) Enabled ~ router-wifi_015103 Enabled ~ disabled 7 - 2,442 GHz 40 MHz		¢ ~

---End