

Quick Start

5G Outdoor Router

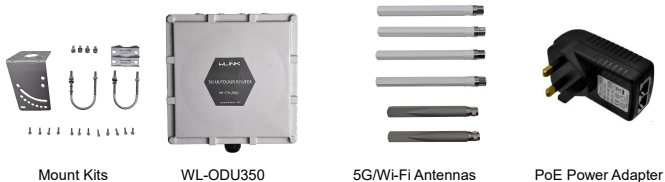
WL-ODU350

WLINK

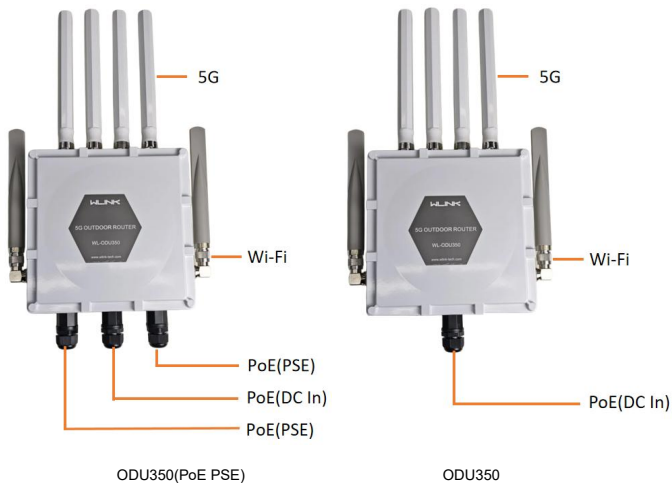
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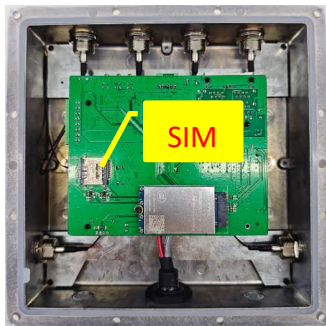
Packing Contents



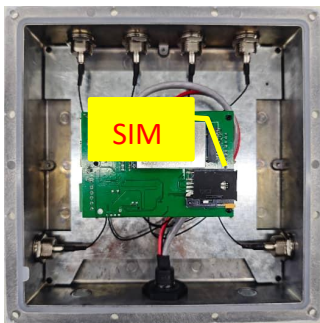
Interfaces Indication



SIM Installation

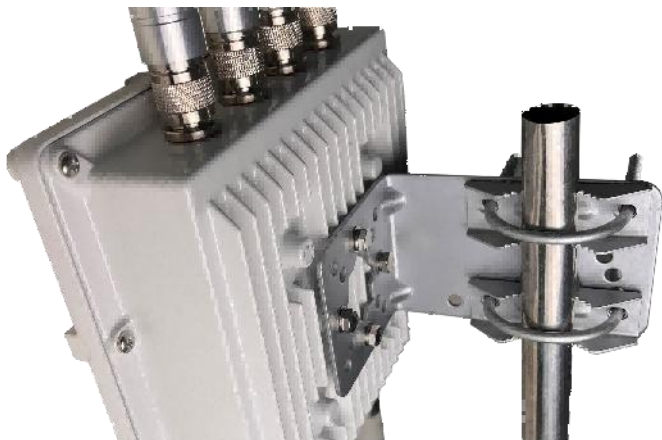


ODU350-530 Dual-SIM



ODU350-230 Single SIM

Mount Kits Installation



Login

To access and configure certain features of the WL-ODU300, one needs to log in to the WL-ODU300. Connect one Ethernet cable to PoE interface of device and PoE adapter, and connect other Ethernet cable between LAN of PoE adapter and PC.

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.

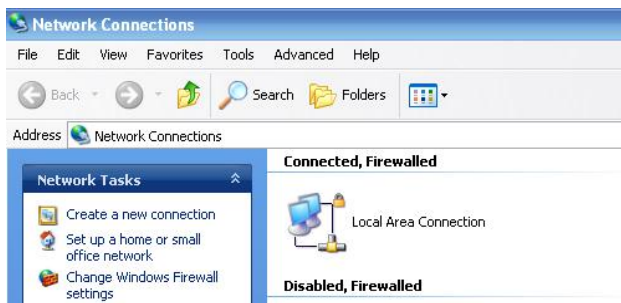


Figure 2-1 Network Connection

Obtain a IP address automatically or set up IP address,192.168.1.xxx(XXX can be any number between 2~254)

Enter the default IP Address as <https://192.168.1.1> the login page will open as shown in the figure below.

Sign in

https://192.168.1.1

Username

Password

User name: admin

Password: Printed on the WL-ODU300 Label.

Overview

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

The screenshot shows the WLINK router status GUI. The left sidebar contains navigation options: Status (Overview, Traffic Stats, Device List), Basic Network, WLAN, Advanced Network (Firewall, VPN Tunnel, Administration), and More Info. The main content area is divided into several sections:

- System:** Router Name (Router), Hardware Version, Firmware Version (R50.4.3.4.5), Router Sn, Chipset, Router Time (Sat, 19 Feb 2022 20:18:19 +0800), Uptime (1033:45), Memory Usage (13.04 MB / 60.02 MB (21.72%)), and NVRAM Usage (26.01 KB / 64.00 KB (40.64%)).
- WAN:** Connection Type (WAN), Modem IMEI (862107042240028), Cellular ISP, Cellular Network, USIM Selected (USIM Card 1 Running...), IP Address (192.168.10.116), Subnet Mask (255.255.255.0), Gateway (192.168.10.1), DNS (192.168.10.153), Connection Status (Connected), and Connection Uptime (1033:19).
- Ethernet Ports Status:** WAN/LAN (100M Full) and LAN (Unplugged).
- Wireless (2.4 GHz):** MAC Address (34904C06502F), Wireless Mode (Access Point), Wireless Network Mode (Auto), Interface Status (Up (LAN)), and Radio (Enabled).

Figure 2-2 Router Status GUI

Traffic Stats.

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

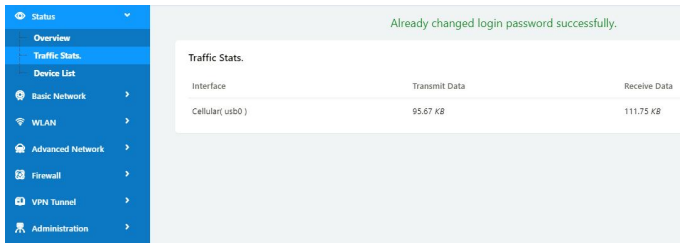


Figure 2-3 Traffic Stats. GUI

Device List

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

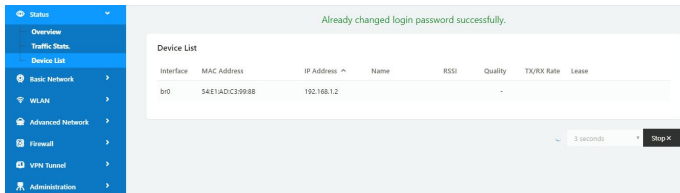


Figure 2-4 Device List GUI

Tool Column



Figure 2-5 Tool Column GUI

Tools

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

IP Address Ping

Ping Count

Packet Size (bytes)

Seq Address RX Bytes TTL RTT (ms) +/- (ms)

Trace

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

Trace Route

IP Address Trace

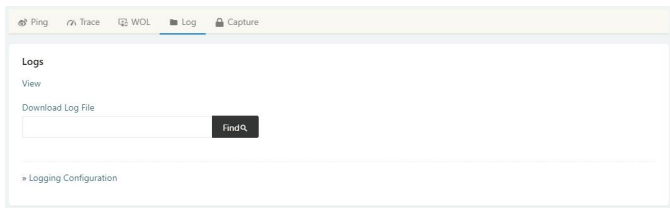
Maximum Hops

Maximum Wait Time (seconds per hop)

Hop Address min (ms) max (ms) avg (ms) +/- (ms)

Log

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



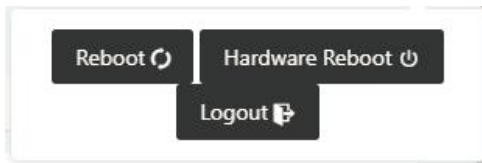
Bandwidth

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



System

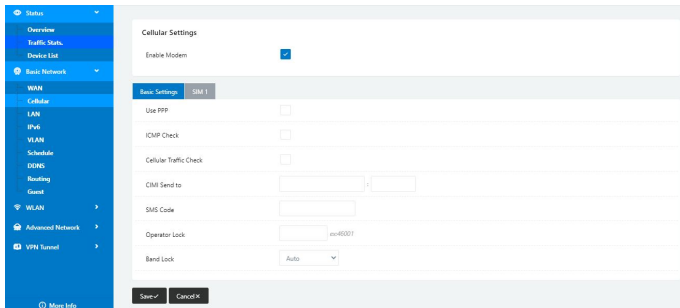
Click system to choose software reboot, hardware reboot and logout GUI.



Basic Network

Cellular Setting

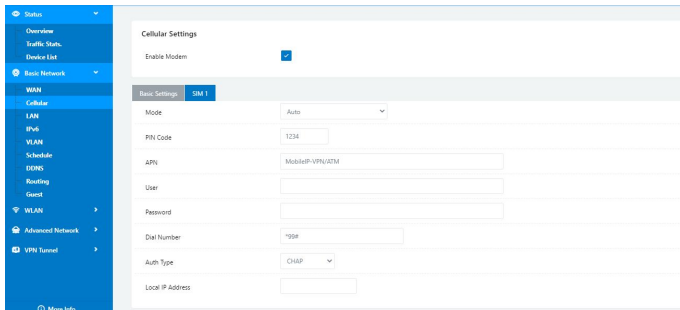
Step 1 Basic Network-> Cellular, you can modify relevant parameter according to the application.



The screenshot shows the 'Cellular Settings' page for 'SIM 1'. The 'Enable Modem' checkbox is checked. The 'Basic Settings' tab is active. The following parameters are visible:

Parameter	Value
Enable Modem	<input checked="" type="checkbox"/>
Use PPP	<input type="checkbox"/>
ICMP Check	<input type="checkbox"/>
Cellular Traffic Check	<input type="checkbox"/>
CIM2 Send to	[Empty field]
SMS Code	[Empty field]
Operator Lock	[Empty field] ew46201
Band Lock	Auto

Buttons: Save, Cancel



The screenshot shows the 'Cellular Settings' page for 'SIM 1'. The 'Enable Modem' checkbox is checked. The 'SIM 1' tab is active. The following parameters are visible:

Parameter	Value
Mode	Auto
PIN Code	1234
APN	MobileIP-VPN/ATM
User	[Empty field]
Password	[Empty field]
Dial Number	*99#
Auth Type	CHAP
Local IP Address	[Empty field]

Table 2-1 Cellular Setting Instruction

Parameter	Instruction
Enable Modem	Enable/Disable 4G mode.
Use PPP	ECM dialup as default and 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.
Band Lock	Lock a specified band.
Connect Mode	<p>【Auto】 The router will automatically connect to 3G/4G networks and give priority to 4G.</p> <p>【LTE】 Router will connect to 4G only.</p> <p>【3G】 Router will connect to 3G only.</p>
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.

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

----End

LAN Setting

Step 1 Basic Network>LAN to enter below interface

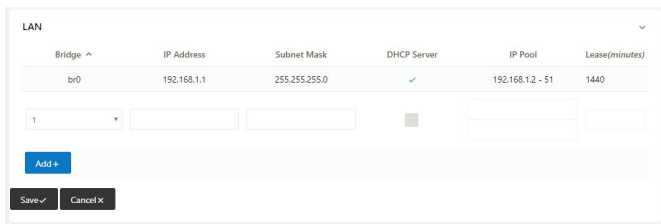
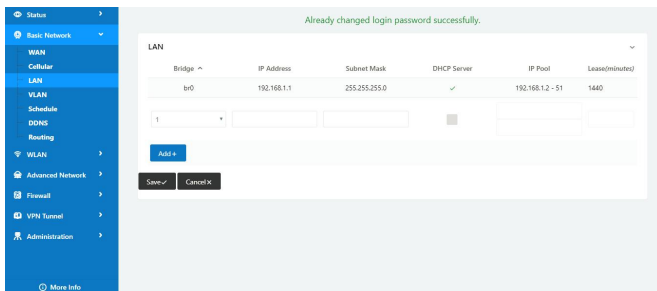


Table 2-2 LAN Setting Instruction

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

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 +

Save ✓ Cancel ✗

Table 2-3 VLAN Setting Instruction

Parameter	Instruction
VID	VLAN ID number. The VID range is from 1 to 15.

Parameter	Instruction
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

Schedule

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

Enabled Links ▼

Link Name	Link Type	Description
modem	ECM/QMI	

ICMP Check ▼

On	Link	Destination	Interval	Retries	Description
<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Schedule ▼

On	Link 1	Link 2	Policy	Description
<input checked="" type="checkbox"/>	modem	modem	FAILOVER	<input type="text"/>

Step 2 Please Click "Save" to finish.

----End

Dynamic DNS Setting

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

Dynamic DNS

IP Address: Use WAN IP Address 0.0.0.0 (recommended)

Auto refresh every: 20 minutes (0 = Disabled)

Dynamic DNS1

Service: None

Dynamic DNS2

Service: None

Save ✓ Cancel ✕

Table 2-4 DDNS Setting Instruction

Parameter	Instruction
IP address	Default is standard DDNS protocol, for customized protocol. 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

Routing Setting

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

Current Routing Table

Destination	Gateway / Next Hop	Subnet Mask	Metric	Interface
192.168.1.0	*	255.255.255.0	0	LAN
127.0.0.0	*	255.0.0.0	0	lo

Static Routing Table

Destination	Gateway	Subnet Mask	Metric	Interface	Description
<input type="text"/>	<input type="text" value="0.0.0.0"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text" value="LAN"/>	<input type="text"/>

Miscellaneous

Mode

RIPv1 & v2

DHCP Routes

Spanning-Tree Protocol

Table 2-5 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

Guest

Step 1 Basic Network->Guest to enter the account GUI.

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

The screenshot shows the 'Router Login' configuration page. On the left, a blue sidebar contains a navigation menu with the following items: Status, Overview, Traffic Stats, Device List, Basic Network (selected), WAN, Cellular, LAN, IPv6, VLAN, Schedule, DDNS, Routing, Guest, WLAN, Advanced Network, and VPN Tunnel. The main content area is titled 'Router Login' and features three input fields: 'Guest Username' (containing 'user'), 'Password' (masked with asterisks), and a confirmation field labeled '(re-enter to confirm)' (also masked). Below the fields are two buttons: 'Save ✓' and 'Cancel X'.

Step 2 Please click save icon to finish the setting.

----End

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.

Basic Setting

Step 1 WLAN->Basic Setting to configure relative parameter

The screenshot shows a configuration page for WLAN. On the left is a navigation menu with options: Status, Basic Network, WLAN, Basic Settings, Multicast, Wireless Survey, Advanced Network, and VPN Tunnel. The main area is titled 'Radio Mode' and is set to '2.4G + 5G'. Below this are two tabs: 'Wireless(2.4 GHz)' (selected) and 'Wireless(5 GHz)'. The settings include:

- Enable WLAN:
- MAC Address: 340AAB062003
- Wireless Mode: Access Point
- Radio Band: 2.4 GHz
- Wireless Network Mode: Auto
- SSID: router-wifi_062003
- Broadcast SSID:
- Channel: 7 - 2.462 GHz (with a 'Scan Q' button)
- Channel Width: 40 MHz
- Control Subband: Lower

 At the bottom left of the menu, there is a 'More Info' link.

Parameter	Instruction
Radio Mode	2.4G+5G mode as default. Support 2.4G, 5G modes optional. 2.4G+5G model, Wi-Fi bandwidth for 683Mbps 2.4G 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 80MHz alternative for 2.4G.

Security	Support various encryption method as requested.
----------	---

Wireless(2.4 GHz)	Wireless(5 GHz)
Enable WLAN	<input checked="" type="checkbox"/>
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	<input checked="" type="checkbox"/>
Channel	149 - 5.745 GHz ▾ Scan 🔍
Channel Width	80 MHz ▾
Control Sideband	Lower ▾
Maximum Clients	128 (range: 1 - 255)
Security option	Disabled ▾

Table 2-6 Basic of WLAN Setting Instruction

Step 2 Please click “Save” to finish.

----End

MultiSSID

Step 1 WLAN->MultiSSID Setting to configure relative parameter

The screenshot shows the 'MultiSSID' configuration page. On the left is a navigation menu with 'WLAN' selected. The main area has a tabbed interface with 'Overview' selected. Below the tabs is a table with columns: Interface, Enabled, SSID, Mode, and Bridge. Two entries are shown: 'eth1 (wif0)' and 'eth2 (wif1)'. Below the table is a form to add a new entry with fields for interface, enabled status, SSID, mode, and bridge. 'Add +' and 'Save' buttons are visible.

Interface	Enabled	SSID	Mode	Bridge
eth1 (wif0)	No	router-wif_062003	Access Point	LAN (br0)
eth2 (wif1)	No	router-wif_062003_5G	Access Point	LAN (br0)

Step 2 Please click “Save” to finish.

---End

Wireless Survey

WLAN> Wireless Survey to check survey.

The screenshot shows the 'Wireless Site Survey' page. The left navigation menu has 'WLAN' selected. The main area displays a table with columns: Last Seen, SSID, BSSID, RSSI, Noise, Quality, Ch, Capabilities, and Rates. Below the table, it shows '0 added, 0 removed, 0 total' and 'Last updated: 18:48:37'. At the bottom right, there are controls for 'Auto Expire' (set to 3 seconds) and a 'Stop' button.

Advanced Network Setting

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.

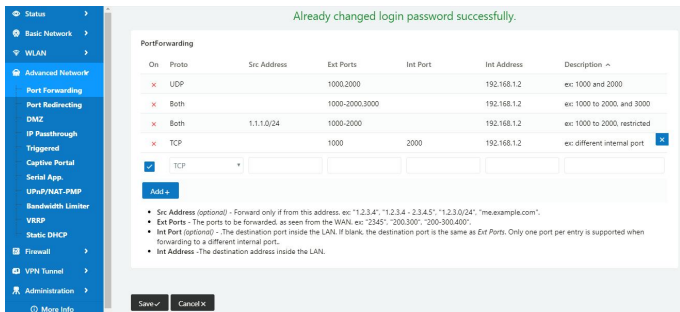


Table 2-7 Port Forwarding Instruction

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

DMZ Setting

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

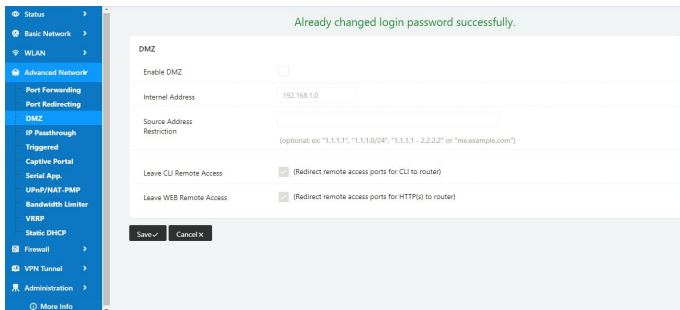


Table 2-8 DMZ Instruction

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

Bandwidth Control Setting

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

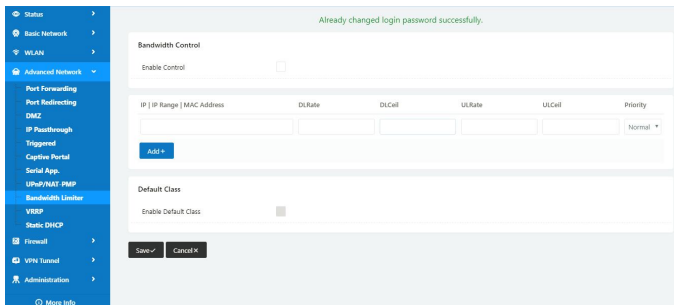


Table 2-9 Bandwidth Control Instruction

Parameter	Instruction
Max Available Upload	Speed limit for router.
IP/ IP Range/ MAC Address	Limit devices speed for specified IP/IP Range/ MAC 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