

USER MANUAL

Vanguard Connect



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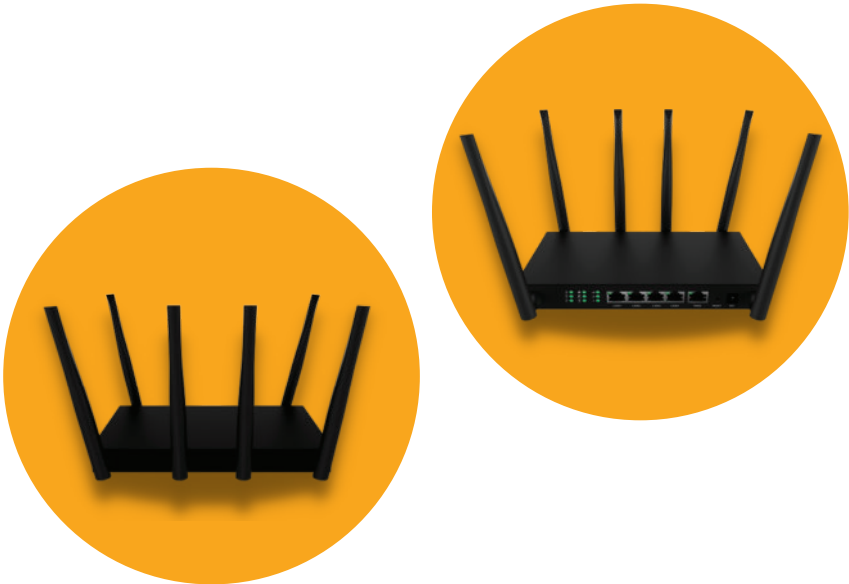
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CHAPTER 1: INTRODUCTION

1.1 General Introduction

Vanguard Connect, is a multi-functional wireless 4G LTE Cat 7 CPE, providing 4G LTE internet from both physical SIM card and Virtual SIM card. Compliant with IEEE 802.11b/g/n/ac standards, the Vanguard Connect can support up to 1200Mbps Wireless with Dual-Band WIFI 2.4GHz + 5GHz. With an embedded 4G LTE cat7 MTK module, it works well with all the mainstream frequency bands for 4G LTE up to 300Mbps. The Vanguard Connect can also be easily managed.

1.2 Industrial Design



CHAPTER 2: HARDWARE INSTALLATION

Please follow the instructions below to connect the Vanguard Connect to the existing network devices and your computers.

2.1 Hardware Description

Dimensions: 200 x 128 x 33 mm (W x D x H)

Diagram:



Figure 2-1



Figure 2-2

• 2.1.1 Front LED

The front LED provides a simple interface monitoring the router. Figure 2-1-1 shows the front LED of the CPE- 0001.



Figure 2-1-1 Top View

• 2.1.2 LED Indications

The LEDs on the front panel indicate instant status of port links, wireless data activity, system power, LTE, USB and WPS, and help monitor and troubleshoot when needed. Figure 2-1-1 and Table 2-1 show the LED indications of the Wireless Router.

LED	STATE	FUNCTION
POWER	On	Device power on
	Off	Device power off
2.4G	On	The 2.4GHz Wi-Fi is activated.
	Flash	Device is transmitting data wirelessly over 2.4GHz.
	Off	The 2.4GHz Wi-Fi is disabled.
5.8G	On	The 5.8GHz Wi-Fi is activated.
	Flash	Device is transmitting data wirelessly over 5.8GHz.
	Off	The 5.8GHz Wi-Fi is disabled.
LTE	On	LTE is connected
	Flash	LTE is connecting to the internet
	Off	Both SIM not working
LAN1-4	On	Link is established.
	Flash	Packets are transmitting or receiving.
	Off	LAN port is not connected.
WAN	On	Link is established.
	Flash	Packets are transmitting or receiving.
	Off	WAN port is not connected.
Signal LED	1 LED	LTE signal is weak
	2 LED	LTE signal is fine
	3 LED	LTE signal is good
VSIM Indicator	On	VSIM works fine
	Off	VSIM doesn't work (out of service)
SIM Indicator	On	Physical SIM is inserted
	Off	Physical SIM is not inserted

Table 2-1 LED Indications

• 2.1.3 Rear Panel

The rear panel provides the physical connectors connected to the power adapter and any other network device. Figure 2-1-3 shows the rear panel of the Vanguard Connect.

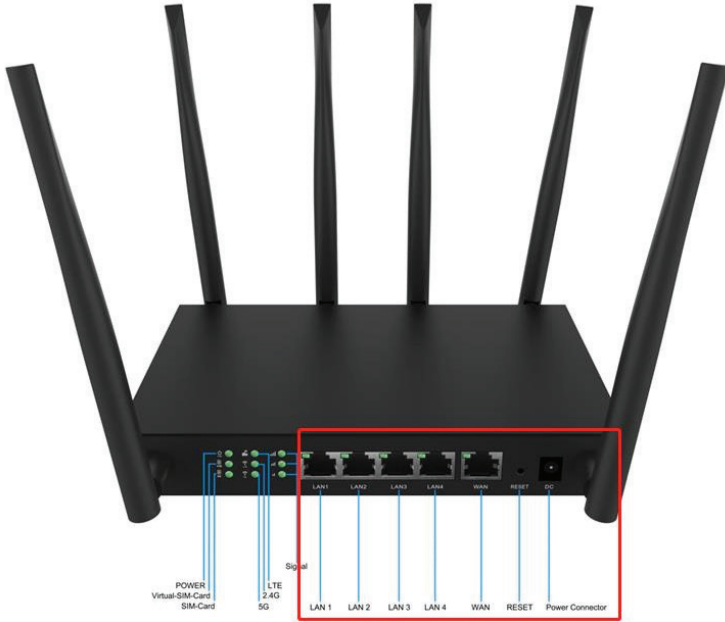


Figure 2-1-3 - Rear Panel

Interface	Description
Reset	Press the Reset button gently for 3 seconds and then release it. The system restores to the factory default settings
WAN	Connect to the Cable/xDSL Modem or the Ethernet
LAN1-4	Connect to the user's PC or network devices
Power	Connect to the power adapter provided in the package

Table 2-2 - Interface Indications

CHAPTER 3: CONNECTING TO THE ROUTER

3.1 System Requirements

- Broadband Internet Access Service (Cable/xDSL/Ethernet connection)
- One Cable/xDSL Modem that has an RJ45 connector (not necessary if the Router is connected directly to the Ethernet.)
- PCs with a working Ethernet Adapter and an Ethernet cable with RJ45 connectors
- PC subscribers use WindowsXP, Windows Vista, Windows7/8/10, MACOS9 or later, or Linux, UNIX or other platforms compatible with TCP/IP protocols
- The above PC is installed with a Web browser



1. The Router in the following instructions means Vanguard Connect.
2. It is recommended to use Internet Explorer 7.0 or above to access the Router.

3.2 Device Setup

Before installing your CPE Router, make sure your PC is connected to the Internet through the broadband service successfully at this moment. If there is any problem, please contact your local ISP. After that, please install the Router according to the following steps. Don't forget to pull out the power plug and keep your hands dry.

You have two methods available for setting up your LTE CPE router:

- 1) Setup with vSIM
- 2) Setup with Physical SIM

Setup with vSIM:

Step 1: Open the packing box, insert the power adapter into the power port of CPE.

Step 2: After power on, all indicators will on, then power indicator is steady on.

Step 3: WiFi 2.4/5GHz status indicator light will stay illuminated when successfully WiFi connection is ready

Step 4: vSIM status indicator light will stay illuminated when the device successfully connected to network with vSIM.

Step 5: You are now ready to connect personal mobile devices to your LTE CPE router

Step 6: Connect the LAN port to the end device, LAN indicator will steady on, it will blinking once data is being transmitted.

When you're ready to pick a plan and activate your device, give us a call at the number above or scan the QR code on the bottom of your device to access our portal. Make sure to have the device serial number, located on the bottom of the Vanguard Connect, ready to go.

Setup with Physical SIM:

Step 1: Insert the Micro SIM card into the SIM slot on the device, and connect the power adapter to power on the device

Step 2: SIM card status indicator light will stay illuminated when the device successfully connected to network with SIM card.

Log in the CPE configuration portal

Step 3: Open a web-browser and enter the default IP address 192.168.0.1 in the web address field of the browser.

Step 4: Enter the User Name and Password to enter the configuration portal

Step 5: Change between vSIM and physical SIM: Enter the 'Mobile network' page in Setting to change the mode between vSIM and physical SIM

Setup as a Router:

Step 1: Power off your PC, Cable/xDSL Modem and the Router.

Step 2: Locate an optimum location for the Router. The best place is usually at the center of your wireless network.

Step 3: Connect the PC or Switch/Hub in your LAN to the LAN Ports of the Router with Ethernet cable.

Step 4: Connect the power adapter to the power socket on the Router, and the other end into an electrical outlet. Then power on the Router.

Step 5: Power on your PC and Cable/xDSL Modem.

CHAPTER 4: QUICK INSTALLATION GUIDE

This chapter will show you how to configure the basic functions of your Wireless Router using the **Quick Setup** within minutes.



A computer with wired Ethernet connection to the Wireless Router is required for the first-time configuration.

4.1 Manual Network Setup - TCP/IP Configuration

The default IP address of the Wireless Router is **192.168.0.1** and the default Subnet Mask is **255.255.255.0**. These values can be changed as you desire in the web UI of the Wireless Router. In this section, we use all the default values for description.

Whether the Wireless Router is configured via wired or wireless connection, the PC needs to be assigned an IP address first. Before you connect the local PC to the Wireless Router via wired or wireless connection, please configure the IP address for your PC in the following two ways first.

- Obtaining an IP address automatically
- Configuring the IP address manually

In the following sections, we'll introduce how to install and configure the TCP/IP correctly in Windows7. And the procedures in other operating systems are similar. First, make sure your Ethernet Adapter is working, and refer to the Ethernet adapter's manual if needed.

• 4.1.1 Obtaining an IP Address Automatically

Summary:

- 1) Set up the TCP/IP Protocol in "Obtain an IP address automatically" mode on your PC.
- 2) Then the Wireless Router built-in DHCP server will assign IP address to the PC automatically.

If you are sure the DHCP server of Wireless Router is enabled, you can set up the TCP/IP Protocol in "**Obtain an IP address automatically**" mode on your PC. And then the Wireless Router built-in DHCP server will assign an IP address to the PC automatically.

Installing TCP/IP Component Control Panel

- 1) On the Windows taskbar, click the **Start** button, point to **Control Panel**, and then click it.
- 2) Under the **Network and Internet** icon, click on the **View network status and tasks**. And then click **Change adapter settings**.

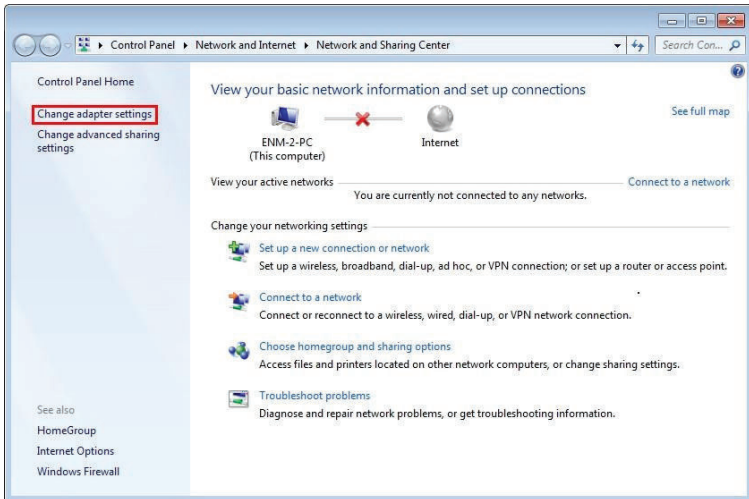


Figure 4-1 Change Adapter Settings

3) Right-click on the **Wireless Network Connection**, and select **Properties** in the appearing window.

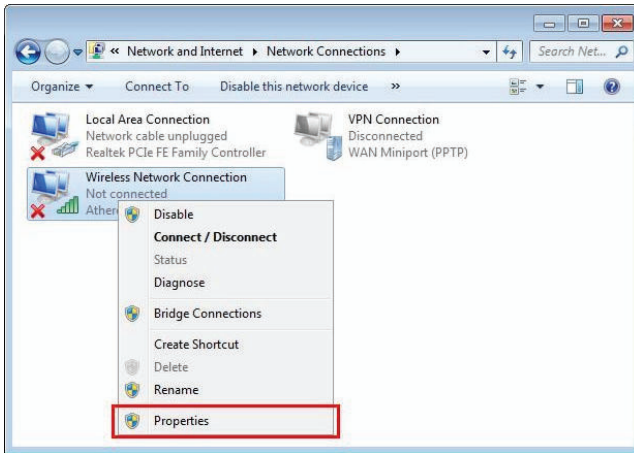


Figure 4-2 Network Connection Properties

4) In the prompt window shown below, double-click on the **Internet Protocol Version 4(TCP/IPv4)**.

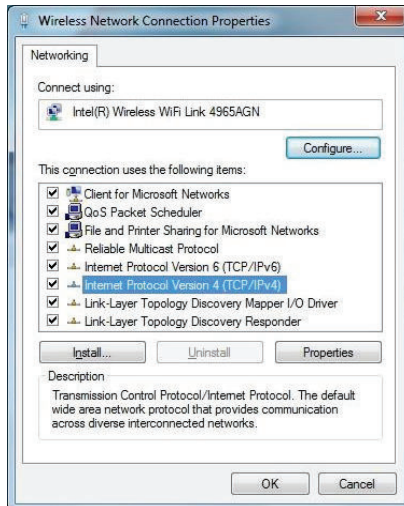


Figure 4-3 - TCP/IP Setting

5) Choose Obtain an IP address automatically, and **Obtain DNS server address** automatically as shown in the figure below. Then click **OK** to save your settings.

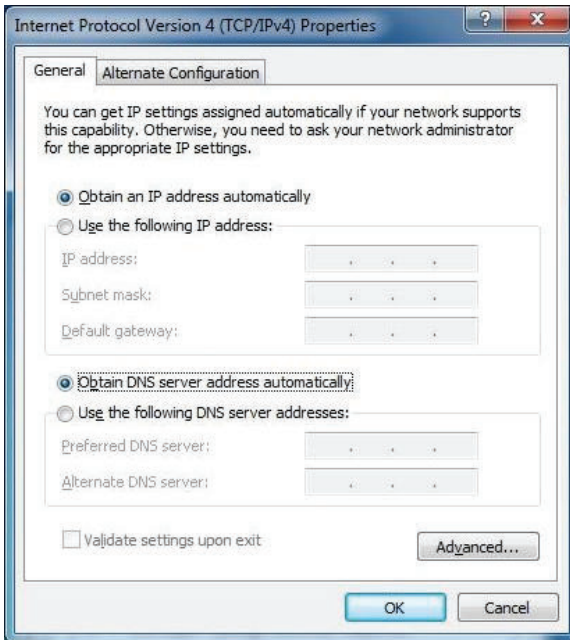


Figure 4-4 Obtain an IP Address Automatically

• 4.1.2 Configuring the IP Address Manually

Summary:

- 1) Set up the TCP/IP Protocol for your PC.
- 2) Configure the network parameters. The IP address is 192.168.0.xxx ("xxx" is any number from 2 to 254), Subnet Mask is 255.255.255.0, and Gateway is 192.168.0.1 (The Router's default IP address)

If you are sure the DHCP server of Wireless Router is disabled, you can configure the IP address manually. The IP address of your PC should be 192.168.0.xxx (the same subnet of the IP address of the Wireless Router, and "xxx" is any number from 2 to 254), Subnet Mask is 255.255.255.0, and the Gateway is 192.168.0.1 (The default IP address of the Wireless Router)

- 1) Continue the settings from the last figure. Select **Use the following IP address** radio button.
- 2) If the LAN IP address of the Wireless Router is 192.168.0.1, enter IP address 192.168.0.x (x is from 2 to 254), and Subnet mask 255.255.255.0
- 3) Enter the LAN IP address of the Wireless Router (the default IP is 192.168.0.1) into the default gateway field.
- 4) Select **Use the following DNS server addresses** radio button. In the preferred DNS Server field, you can enter the DNS server IP address provided by your local ISP. Then click OK to save your settings.

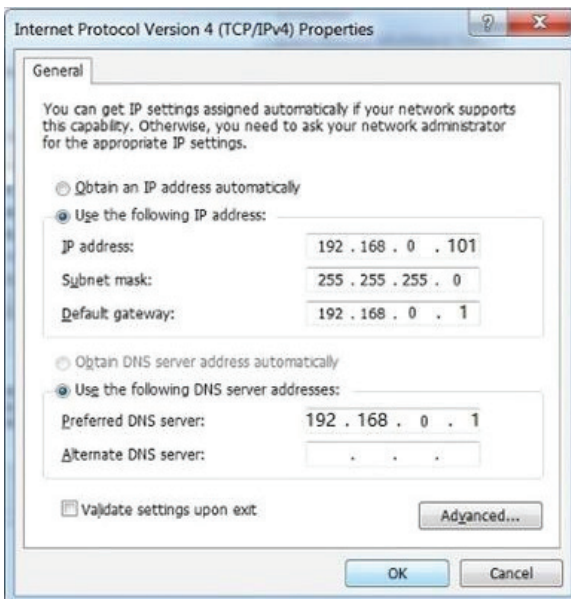


Figure 4-5 IP and DNS Server Addresses

Now, you can run the Ping command in the **command prompt** to verify the network connection between your PC and the Router. The following example is in Windows 7 OS.

Please follow the steps below:

1. Click on **Start**.
2. Type “**cmd**” in the Searchbox.

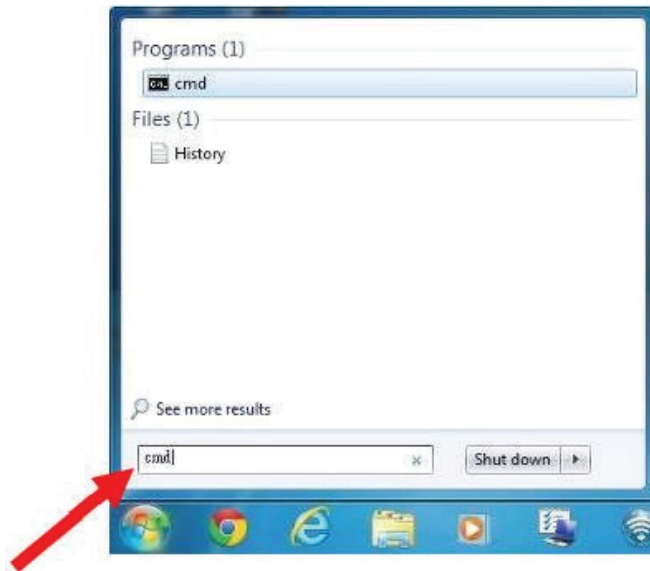


Figure 4-6

3. Open a command prompt, and type ping **192.168.0.1**, and then press **Enter**.

- If the result displayed is similar to Figure 4-7, it means the connection between your PC and the Router has been established well.

```
C:\Users\lenovo>ping 192.168.0.1

Pinging 192.168.0.1 with 32 bytes of data:
Reply from 192.168.0.1: bytes=32 time<1ms TTL=64
Reply from 192.168.0.1: bytes=32 time<1ms TTL=64
Reply from 192.168.0.1: bytes=32 time<1ms TTL=64
Reply from 192.168.0.1: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\lenovo>
```

Figure 4-7 Successful Ping Command

- If the result displayed is similar to Figure 4-8, it means the connection between your PC and the Router has failed.

```
C:\Users\lenovo>ping 192.168.0.1

Pinging 192.168.0.1 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.0.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Users\lenovo>
```

Figure 4-8 Failed Ping Command

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your router. Some firewall software programs may block a DHCP request on newly installed adapters.



NOTE

If the Router's IP address is 192.168.0.1, your PC's IP address must be within the range of 192.168.0.2 ~ 192.168.0.254.

4.2 Starting Setup in the Web UI

It is easy to configure and manage the Vanguard Connect with the web browser. Step 1. To access the configuration utility, open a web-browser and enter the default IP address [Error! Hyperlink reference not valid.](#) in the web address field of the browser.



Figure 4-9 Login the Router

After a moment, a login window will appear. Enter **admin** for the User Name and Password, both in lower case letters. Then click the **Log In** button or press the **Enter** key.

A screenshot of a login window. It features two input fields: the top one contains the text "admin" and is labeled "User Name" (though the label is not explicitly visible, the context is clear); the bottom one is labeled "Password". Below these fields is a blue button with the text "Log In" in white. The entire login window is enclosed in a light gray border with rounded corners.

Figure 4-10 Login Window

Default IP Address: 192.168.0.1

Default User Name: admin

Default Password: admin

After entering the user name and password, click the red "X", the **Wizard Setup** page screen appears as Figure 4-11.

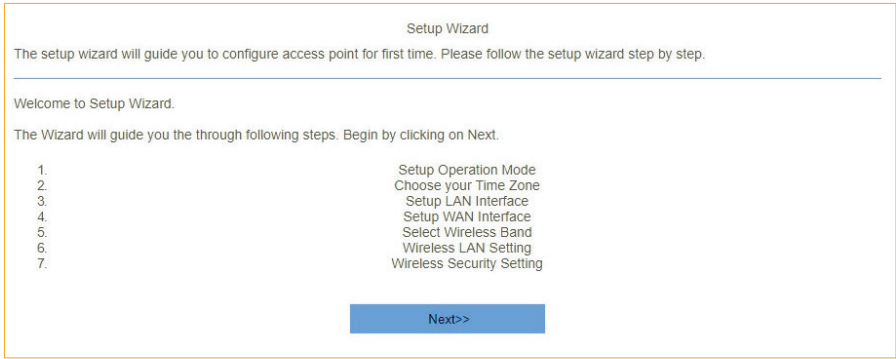


Figure 4-11 Vanguard Connect Web UI Screenshot

Step 2. Choose **"Next"** and you can configure the router Operation Mode by yourself.

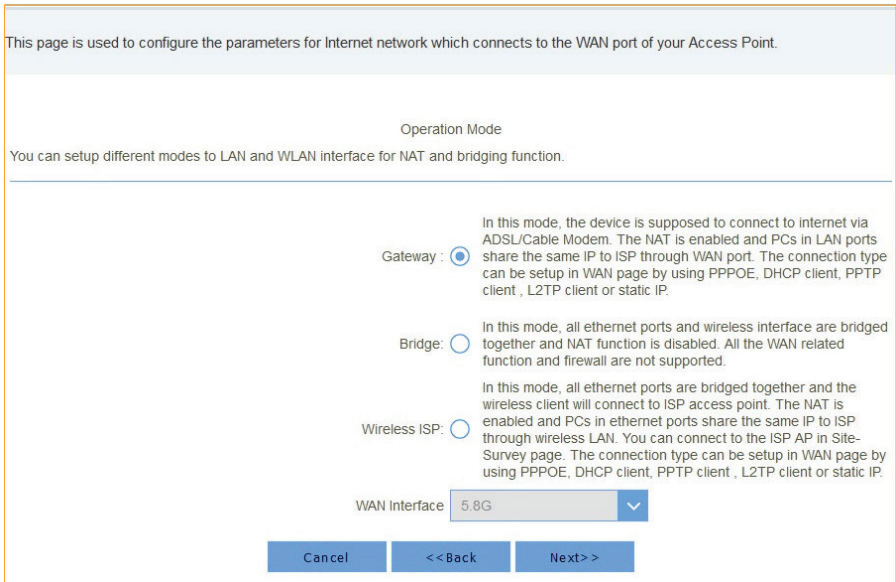
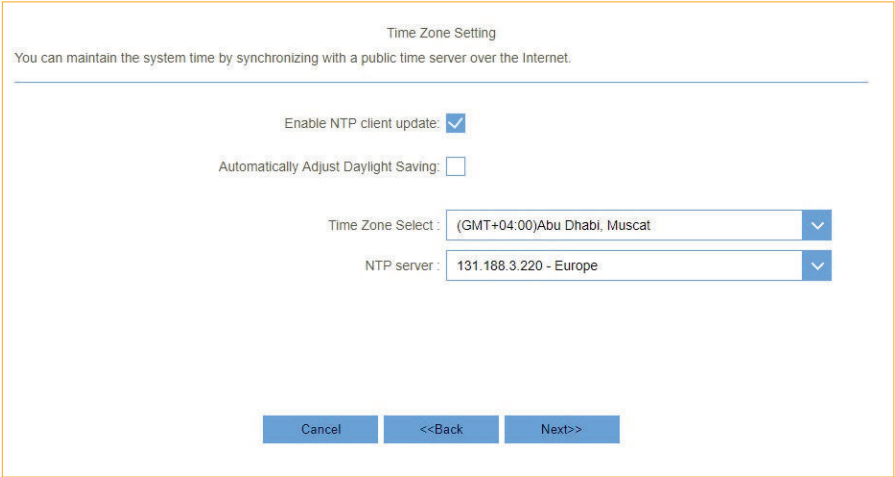


Figure 4-12 Configure the Operation Mode

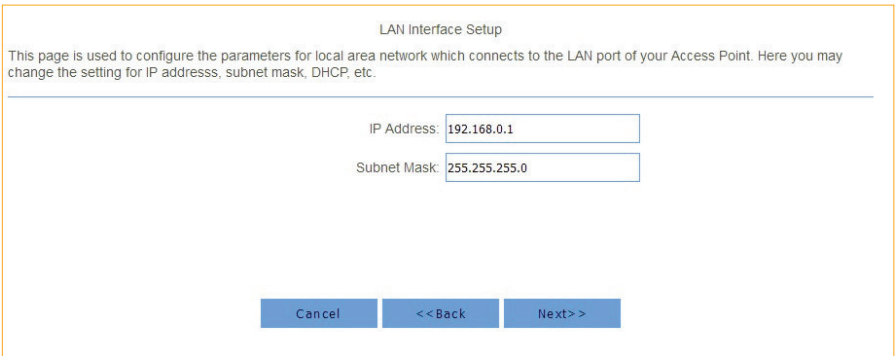
Step 3. Choose **“Next”** and you can configure the Time Zone Setting.



The screenshot shows the 'Time Zone Setting' configuration page. At the top, it says 'Time Zone Setting' and 'You can maintain the system time by synchronizing with a public time server over the Internet.' Below this, there are three settings: 'Enable NTP client update:' with a checked checkbox, 'Automatically Adjust Daylight Saving:' with an unchecked checkbox, 'Time Zone Select:' with a dropdown menu showing '(GMT+04:00)Abu Dhabi, Muscat', and 'NTP server:' with a dropdown menu showing '131.188.3.220 - Europe'. At the bottom, there are three buttons: 'Cancel', '<<Back', and 'Next>>'.

Figure 4-13 Configure the Time Zone Setting

Step 4. Choose **“Next”** and you can configure the LAN Interface Setup.



The screenshot shows the 'LAN Interface Setup' configuration page. At the top, it says 'LAN Interface Setup' and 'This page is used to configure the parameters for local area network which connects to the LAN port of your Access Point. Here you may change the setting for IP addresss, subnet mask, DHCP, etc.' Below this, there are two input fields: 'IP Address:' with the value '192.168.0.1' and 'Subnet Mask:' with the value '255.255.255.0'. At the bottom, there are three buttons: 'Cancel', '<< Back', and 'Next >>'.

Figure 4-14 Configure LAN Interface Setup

Step 5. Choose **“Next”** and you can configure the WAN Interface Setup.

Figure 4-15 Configure WAN Interface setup

Step 6. Choose **“Next”** and you can configure the Wi-Fi Interface Setup.

Figure 4-16 Configure Wi-Fi Interface setup

Step 7. Please enter the **Wi-Fi Settings**. Then click **Next** button for Wi-Fi security setup and finished.

Figure 4-17 Wi-Fi Settings

CHAPTER 5: CONFIGURING THE ROUTER

This chapter delivers a detailed presentation of router's functions and features under 4 main menus shown below, allowing you to manage the router with ease.

The screenshot displays the router's management interface. At the top, there is a navigation bar with icons for Home, Settings, Features, Management, and Logout. Below this, a network diagram shows the Internet (represented by a globe) connected to the DWR-M960 router, which is in turn connected to a laptop and a smartphone. A red 'X' is placed over the connection line between the Internet and the router, indicating a disconnected state. The 'Connected Clients: 1' label is positioned above the client devices. Below the diagram, the 'Internet' configuration section is visible, featuring three tabs: IPv4, IPv6, and Mobile network. The IPv4 tab is currently selected. Underneath, there are several configuration fields arranged in a grid:

Internet			
IPv4			
MAC Address	Connection Type	Network Status	Connection Uptime
f4:8c:eb:93:26:6f		Disconnected	
IP Address	Default Gateway	Primary DNS Server	Secondary DNS Server
Not Available	Not Available	Not Available	Not Available

Figure 5-1 Router's Functions

5.1 Home

• 5.1.1 Internet

Internet			
	IPv4	IPv6	Mobile network
MAC Address	Connection Type	Network Status	Connection Uptime
f4:8c:eb:93:26:6f		Disconnected	
IP Address	Default Gateway	Primary DNS Server	Secondary DNS Server
Not Available	Not Available	Not Available	Not Available

Figure 5-1-1 Router IPv4 Status

Internet			
	IPv4	IPv6	Mobile network
MAC Address	Connection Type	Network Status	Connection Uptime
f4:8c:eb:93:26:6f	DHCPv6	Disconnected	
WAN IPv6 Address	Default Gateway	Primary DNS Server	Secondary DNS Server
Not Available	Not Available	Not Available	Not Available

Figure 5-1-2 Router IPv6 Status


Internet			
	IPv4	IPv6	Mobile network
Signal Intensity	Network Provider	Network Status	Connection Uptime
		Disconnected	
IP Address	Default Gateway	Primary DNS Server	Secondary DNS Server
Not Available	Not Available	Not Available	Not Available
IMEI	Net Type		
860425040413369			

Figure 5-1-3 Router Mobile network Status

• 5.1.2 Vanguard Connect

On this page, you can view information about the current LAN and Wi-Fi status of the Vanguard Connect.

DWR-M960	
IPv4 Network	
MAC Address:	f4:8c:eb:99:32:66
Router IP Address:	192.168.0.1
Subnet Mask:	255.255.255.0
System	
Uptime:	0 Day 0:10:52
Build Time:	Sun Feb 24 14:41:01 CST 2019
Wi-Fi 2.4GHz	
Status:	Up
Wi-Fi Name (SSID):	dlink-2g-3266
Encryption:	WPA2 Mixed
BSSID:	f4:8c:eb:93:26:68
IPv6 Network	
Link-Local Address:	fe80::1
Router IPv6 Address:	Not Available
CPU	
CPU Usage:	16.29%
Memory (Free/Total):	76768/103344
Wi-Fi 5GHz	
Status:	Up
Wi-Fi Name (SSID):	dlink-5g-3266
Encryption:	WPA2 Mixed
BSSID:	f4:8c:eb:93:26:60

Figure 5-1-4 Vanguard Connect Info

• 5.1.3 Connected Clients

This page shows the IP addresses and host names of all the PCs in your network

Connected Clients	
IP Address	MAC Address
192.168.0.2	08:57:00:ec:32:71

Figure 5-1-5 Connected Clients

5.2 Settings

• 5.2.1 WAN

On this page, you can configure the parameters of the WAN interface.

This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point. Here you may change the access method to static IP, DHCP, PPPoE by click the item value of WAN Access type.

IPv4	IPv6	Status
Connect name: <input type="text" value="WAN1"/>		
Enable: <input checked="" type="checkbox"/>		
WAN Access Type: <input type="text" value="Dynamic IP (DHCP)"/>		
MTU: <input type="text" value="1500"/> (1280-1500 bytes)		
Enable VLAN: <input type="checkbox"/>		
<input type="button" value="Save & Apply"/>		

Figure 5-2-1 WAN

■ 5.2.1.1 IPv4

There are four wan connection can be use, each wan connection can be configured as difference mode, such as DHCP router mode, PPPoE router mode, Static router mode, and each wan connection can be configured to have VLAN tag, this will more helpful for user to meet different environment usage.

DHCP

Choose “DHCP” and the router will automatically obtain IP addresses, subnet masks and gateway addresses from your ISP.

Connect name:

Enable:

WAN Access Type:

MTU: (1280-1500 bytes)

Enable VLAN:

Figure 5-2-2 DHCP

Object	Description
MTU	You can keep the maximum transmission unit (MTU) as default.
VLAN ID	Enter the VLAN ID value provided by your ISP.
WAN Type	From this feature, user can distinguish different services.

Static IP

If your ISP offers you static IP Internet connection type, select "Static IP " and then enter IP address, subnet mask, primary DNS and secondary DNS information provided by your ISP in the corresponding fields.

Connect name: WAN1

Enable:

WAN Access Type: Static IP

IP Address:

Subnet Mask:

Default Gateway:

MTU: 1500 (1400-1500 bytes)

DNS 1:

DNS 2:

Enable VLAN:

Save & Apply

Figure 5-2-3 Static IP

Object	Description
IP Address	Enter the WAN IP address provided by your ISP. Inquire your ISP if you are not clear.
Subnet Mask	Enter WAN Subnet Mask provided by your ISP.
Default Gateway	Enter the WAN Gateway address provided by your ISP.
DNS 1	Enter the necessary DNS address provided by your ISP.
DNS 2	Enter the other DNS address if your ISP provides you with 2 such addresses, and it is optional.
MTU	You can keep the maximum transmission unit (MTU) as default.
VLAN ID	Enter the VLAN ID value provided by your ISP.
WAN Type	From this feature, user can distinguish different services.

PPPoE

Select PPPoE, if your ISP is using a PPPoE connection and provide you with PPPoE user name and password information.

Connect name: WAN1

Enable:

WAN Access Type: PPPoE

User Name:

Password:

Service Name:

MTU: 1492 (1360-1492 bytes)

Connection Type: Continuous

Enable VLAN:

Save & Apply

Figure 5-2-4 PPPoE

Object	Description
Username	Enter the User Name provided by your ISP.
Password	Enter the password provided by your ISP.
VLAN ID	Enter the VLAN ID value provided by your ISP.
WAN Type	From this feature, user can distinguish different services.
Service Name	Type the name of this router.
MTU	You can keep the maximum transmission unit (MTU) as default.
Connection Type	Select "Continuous", "Connect on Demand" or "Manual".

■ 5.2.1.2 IPv6

You can config IPv6 in this page. It's support 3 kinds of IPv6 origin types.

Enable IPv6:

Origin Type:

IP Address: 0000 : 0000 : 0000 : 0000 : 0000 : 0000 : 0000 : 0000 / 0

Default Gateway: 0000 : 0000 : 0000 : 0000 : 0000 : 0000 : 0000 : 0000 / 0

DNS: 0000 : 0000 : 0000 : 0000 : 0000 : 0000 : 0000 : 0000 / 0

Enable MLD Proxy:

Save & Apply Reset

Figure 5-2-5 IPv6 Static

Object	Description
Origin Type	Current origin type STATIC.
IP Address	WAN IPv6 address.
Default Gateway	WAN IPv6 default gateway.
DNS	WAN IPv6 DNS.
Enable MLD Proxy	Enable or disable MLD.

Enable IPv6:

Origin Type:

Address Mode:

DUID: 0003000100e04c8196c9

PD Enable:

Rapid-commit Enable:

DNS: 0000 : 0000 : 0000 : 0000 : 0000 : 0000 : 0000 : 0000 / 0

Enable MLD Proxy:

Save & Apply Reset

Figure 5-2-6 IPv6 auto

Object	Description
Origin Type	Current origin type AUTO.
Address Mode	WAN IPv6 address mode, including stateless and stateful address mode.
PD Enable	WAN IPv6 prefix delegation.
Rapid-commit Enable	Rapid commit switch.
DNS	WAN IPv6 DNS.
Enable MLD Proxy	Enable or disable MLD.

Enable IPv6:

Origin Type: 6RD

6RD IPv6 Prefix: 0000 0000 0000 0000 0000 0000 0000 0000 / 0

WAN IPv4 Address: Get from DHCP / 0

6RD Border Relay IPv4 Address: 0.0.0.0

DNS: 0000 0000 0000 0000 0000 0000 0000 0000 / 0

Enable MLD Proxy:

Save & Apply Reset

Figure 5-2-7 IPv6 6RD

Object	Description
Origin Type	Current origin type 6RD. WAN
6RD IPv6 Prefix	IPv6 prefix delegation WAN
WAN IPv4 Address	IPv4 address.
6RD Border Relay IPv4 Address	Border Relay IPv4 Address.
DNS	WAN IPv6 DNS.
Enable MLD Proxy	Enable or disable MLD.

■ 5.2.1.3 Status

This page will show all the status of the WAN connections.

IPv4		IPv6			Status		
Connect name	Enable	Type	Vlan ID	Status	IP Address	Gateway	DNS
WAN1	Disabled						
WAN2	Disabled						
WAN3	Disabled						
WAN4	Disabled						

Figure 5-2-8 Status

• 5.2.2 Mobile network

■ 5.2.2.1 Basic Settings

This page is used to configure the Mobile network between Physical SIM and vSIM

This page is used to switch between physical sim card and virtual sim card.

Basic Settings

SIM TYPE: ▼

Figure 5-2-9 Mobile network

Object	Description
SIM TYPE	Switch sim type between physical sim and virtual sim

• 5.2.3 Operation Mode

You can setup different modes to LAN and WLAN interface for NAT and bridging function.

Gateway: In this mode, the device is supposed to connect to internet via ADSL/Cable Modem. The NAT is enabled and PCs in LAN ports share the same IP to ISP through WAN port. The connection type can be setup in WAN page by using PPPOE, DHCP client, PPTP client, L2TP client or static IP.

Bridge mode: In this mode, all ethernet ports and wireless interface are bridged together and NAT function is disabled. All the WAN related function and firewall are not supported.

Wireless ISP: In this mode, all ethernet ports are bridged together and the wireless client will connect to ISP access point. The NAT is enabled and PCs in ethernet ports share the same IP to ISP through wireless LAN. You can connect to the ISP AP in Site-Survey page. The connection type can be setup in WAN page by using PPPOE, DHCP client, PPTP client, L2TP client or static IP.

WAN Interface: 5.8G

Figure 5-2-16 Operation Mode

• 5.2.4 Wi-Fi

▪ 5.2.4.1 Wi-Fi

WLAN interface: 2.4G

Disable Wireless LAN Interface:

Country or Region: UNITED ARAB

Band: 2.4 GHz (B+G+N)

Mode: AP

SSID: diink-2g-3266

Channel Width: 20MHz

Control Sideband: Upper

Channel Number: Auto

BroadcastSSID: On

WMM: On

Data Rate: Auto

Associated Clients:

Enable Universal Repeater Mode:

Figure 5-2-17 2.4GHz Wi-Fi

Object	Description
WLAN interface	You may choose which interface to config, for example 2.4G or 5G interface (some model support 5G).
Disable Wireless LAN Interface	You may choose to enable or disable Wireless function.
Band	Set the wireless mode to which you need. Default is "Mixed 802.11b/g/n". It is strongly recommended that you set the Band to "802.11b/g/n", and all of 802.11b, 802.11g, and 802.11n wireless stations can connect to the Vanguard Connect
Mode	WLAN working mode, such AP, client, WDS and AP+WDS.
MultipleAP	You can set guest SSID from this button.
Network Type	You can config WLAN network type with this parameter.
SSID	Set a name (SSID) for your wireless network. The ID of the wireless network. User can access the wireless network through it only. However, if you switch to Client Mode, this field becomes the SSID of the AP you want to connect with.
Channel Width	
Control Sideband	Control channels are only applicable if your gateway is operating at 40 MHz bandwidth and the 802.11n mode is configured as Automatic.
Channel Number	For an optimal wireless performance, you may select the least interferential channel. It is advisable that you select an unused channel or "Auto" to let device detect and select the best possible channel for your wireless network to operate on from the drop-down list.
BroadcastSSID	You may choose to visible or invisible SSID broadcast. When it is enabled, the router SSID will be broadcast in the wireless network, so that it can be scanned by wireless clients and they can join the wireless network with this SSID.
WMM	WMM provides basic Quality of service (QoS) features to IEEE 802.11 networks. WMM prioritizes traffic according to four Access Categories: voice, video, best effort, and background.
Associated Clients	This option shows you all the clients which connected to this SSID.
Enable Universal Repeater Mode	Repeater mode

5.2.4.1 Wi-Fi

Select SSID:

Encryption:

Authentication Mode: Enterprise (RADIUS) Personal (Pre-Shared Key)

WPA Cipher Suite: TKIP AES

WPA2 Cipher Suite: TKIP AES

Pre-Shared Key Format:

Pre-Shared Key:

Figure 5-2-18 Wi-Fi security

Object	Description
Select SSID	Set a name (SSID) for your wireless network. User can access the wireless network through the ID only. However, if you switch to client mode, this field becomes the SSID of the AP you want to connect with.
Encryption	Select the security mode from the Encryption drop down list. There are 4 options in the Security Mode drop down list: <ul style="list-style-type: none"> • Disable • WEP • WPA2 • WPA-Mixed
Pre-Shared Key	Enter the Wi-Fi password

5.2.4.1 Wi-Fi

Wireless ACL Mode:

MAC Address:

Comment:

Figure 5-2-19 Wi-Fi security

Object	Description
Wireless ACL Mode	If you choose 'Allowed Listed', only those clients whose wireless MAC addresses are in the access control list will be able to connect to your Access Point. When 'Deny Listed' is selected, these wireless clients on the list will not be able to connect the Access Point.
MAC Address	The MAC address of the client.
Comment	Comment

5.2.4.4 Site Survey

This page provides tool to scan the wireless network. If any Access Point or IBSS is found, you could choose to connect it manually when client mode is enabled.

Basic Security ACL **Site Survey** WPS

SSID BSSID Channel Number Type Encrypt Signal

Figure 5-2-20 Site Survey

5.2.4.5 WPS

DisableWPS:

Save & Apply Reset

WPS Status: Configured UnConfigured

Reset to UnConfigured

Auto-lock-down state: unlocked Unlock

Self-PIN Number: 39242907

Push Button Configuration: Start PBC

STOP WSC Stop WSC

Client PIN Number: Start PIN

Figure 5-2-21 WPS

Object	Description
WPS	This page allows you to change the setting for WPS (Wi-Fi Protected Setup). Using this feature could let your wireless client automatically synchronize its setting and connect to the Access Point in a minute without any hassle.
Disable WPS	Enable or disable WPS function.

5.2.5 LAN

5.2.5.1 IPv4

This page is used to configure the parameters for local area network which connects to the LAN port of your Access Point. Here you may change the setting for IP address, subnet, DHCP, etc.

IP Address:

Subnet Mask:

Default Gateway:

WORK MODE: ▼

DHCP Client Range: -

Lease Time: (1 ~ 10080 minutes)

Static DHCP:

Domain Name:

802.1d Spanning Tree: ▼

Figure 5-2-22 LAN IPv4

Object	Description
LAN IP Address	Router's LAN IP. The default is 192.168.0.1 . You can change it according to your needs.
Subnet Mask	Router's LAN subnet mask.
WORK MODE	If it is selected, the router serves as the DHCP server and automatically assigns IP addresses to all computers in the LAN.
DHCP Client Range	Enter the start and end IP address of all the available successive IPs.
Lease Time	Select the time for using one assigned IP from the drop down list. After the lease time, the AP automatically assigns new IP addresses to all connected computers.
Static DHCP	This page allows you reserve IP addresses, and assign the same IP address to the network device with the specified MAC address any time it requests an IP address. This is almost the same as when a device has a static IP address except that the device must still request an IP address from the DHCP server.
Domain Name	Set the domain name of the server.
Domain Name Tree	Enable or disable spanning tree function.

5.2.5.2 Static DHCP

If user want to reserve specific IP for some device, you can bind the mac and the IP in this page.

Enable Static DHCP:

IP Address:

MAC Address:

Comment:

Static DHCP List

IP Address	MAC Address	Comment	Select
------------	-------------	---------	--------

Figure 5-2-23 Static DHCP

5.2.5.3 IPv6

This page shows the information of IPv6.

IP Address: 0000 : 0000 : 0000 : 0000 : 0000 : 0000 : 0000 : 0000 / 0

Configuring DHCPv6 Server

Enable:

DNS Addr.:

Interface Name:

Addrs Pool

From:

To:

Figure 5-2-24 IPv6

Object	Description
IP Address	Router's LAN IPv6 address.
DNS Addr	Router's LAN DNS server.
Interface Name	If it is selected, the router serves as the DHCP server and automatically assigns IPv6 addresses to all computers in the LAN.
Addrs Pool	Enter the start and end IPv6 address of all the available successive IPv6 address.

5.2.5.2 Static DHCP

This page shows the information of IPv6 RADVD.

Enable:	<input checked="" type="checkbox"/>
radvdinterfacename:	<input type="text"/>
MaxRtrAdvInterval:	<input type="text" value="0"/>
MinRtrAdvInterval:	<input type="text" value="0"/>
MinDelayBetweenRAs:	<input type="text" value="0"/>
AdvManagedFlag:	<input type="checkbox"/>
AdvOtherConfigFlag:	<input type="checkbox"/>
AdvLinkMTU:	<input type="text" value="0"/>
AdvReachableTime:	<input type="text" value="0"/>
AdvRetransTimer:	<input type="text" value="0"/>
AdvCurHopLimit:	<input type="text" value="0"/>
AdvDefaultLifetime:	<input type="text" value="0"/>
AdvDefaultPreference:	<input type="text" value="high"/>
AdvSourceLLAddress:	<input type="checkbox"/>
UnicastOnly:	<input type="checkbox"/>
Prefix1	
Enabled:	<input type="checkbox"/>
prefix:	<input type="text" value="0000:0000:0000:0000:0000:0000:0000:0000/0"/>
AdvOnLinkFlag:	<input type="checkbox"/>
AdvAutonomousFlag:	<input type="checkbox"/>
AdvValidLifetime:	<input type="text" value="0"/>
AdvPreferredLifetime:	<input type="text" value="0"/>
AdvRouterAddr:	<input type="checkbox"/>
if6to4:	<input type="text"/>

Figure 5-2-25 RADVD

Object	Description
radvdinterfacename	Enter the interface name.
MaxRtrAdvInterval	Enter the max retry advertisement interval.
MinRtrAdvInterval	Enter the min retry advertisement interval.
MinDelayBetweenRAs	Enter the min delay between router advertisement.
AdvManagedFlag	Enable or disable the advertisement managed flag.
AdvOtherConfigFlag	Enable or disable the advertisement other config flag.
AdvLinkMTU	Enter the advertisement link MTU.
AdvReachableTime	Enter the advertisement reachable time.
AdvRetransTimer	Enter the advertisement retrains timer.
AdvCurHopLimit	Enter the advertisement current hop limit
AdvDefaultLifetime	Enter the advertisement default life time.
AdvDefaultPreference	Select from "high", "medium" or "low" for the advertisement default preference.
AdvSourceLLAddress	Enable or disable advertisement source link local address.
UnicastOnly	Enable or disable unicast only.
Prefix1 Enabled	Enable or disable prefix.
prefix	Enter the prefix and prefix length.
AdvOnLinkFlag	Enable or disable advertisement on link flag.
AdvAutonomousFlag	Enable or disable advertisement autonomous flag.
AdvValidLifetime	Enter advertisement valid life time.
AdvPreferredLifetime	Enter advertisement preferred life time.
AdvRouterAddr	Enable or disable advertisement router address.
If6to4	Enter the interface 6to4.

■ 5.2.5.5 TUNNEL 6 over 4

This page used for Tunnel 6 over 4.

Enabled:

[Save](#)

Figure 5-2-26 TUNNEL 6 over 4

Object	Description
Enable	Enable or disable tunnel 6 over 4.

• 5.2.3 Operation Mode

▪ 5.2.6.1 PPTP

This page is used to configure the parameters for Internet network which connects to the PPTP server.

Figure 5-2-27 PPTP

Object	Description
Server	Type the name of PPTP Server.
Username	Enter the user name provided by your ISP.
Password	Enter the password provided by your ISP.
MTU	You can keep the maximum transmission unit (MTU) as default.

▪ 5.2.6.2 L2TPv2

This page is used to configure the parameters for Internet network which connects to the L2TPv2 server.

PPTP	L2TPv2	L2TPv3	Status
Enable: <input checked="" type="checkbox"/>			
Server: <input type="text"/>			
Username: <input type="text"/>			
Password: <input type="text"/>			
MTU: <input type="text" value="1492"/> (1360-1492 bytes)			
<input type="button" value="Save & Apply"/>			

Figure 5-2-28L2TP

Object	Description
Server	Type the name of L2TP Server.
Username	Enter the user name provided by your ISP.
Password	Enter the password provided by your ISP.
MTU	You can keep the maximum transmission unit (MTU) as default.

■ 5.2.6.3 L2TPv3

This page is used to configure the parameters for Internet network which connects to peer by L2TPv3.

PPTP	L2TPv2	L2TPv3	Status
Enable: <input checked="" type="checkbox"/>			
Local Host Address: <input type="text" value="0.0.0.0"/> (0.0.0.0 is autoconfig)			
Remote Host Address: <input type="text"/>			
Local Udp Port: <input type="text"/> (1 ~ 65535)			
Remote Udp Port: <input type="text"/> (1 ~ 65535)			
Tunnel Address: <input type="text"/> (172.10.12.1/24)			
Remote Tunnel Address: <input type="text"/> (172.10.13.1/24)			
Tunnel Id: <input type="text"/> (1 ~ 4294967295)			
Remote Tunnel Id: <input type="text"/> (1 ~ 4294967295)			
Session Id: <input type="text"/> (1 ~ 4294967295)			
Remote session Id: <input type="text"/> (1 ~ 4294967295)			
MTU: <input type="text" value="1488"/> (1360-1488 bytes)			
<input type="button" value="Save & Apply"/>			

Figure 5-2-29L2TPv3

Object	Description
Local Host Address	The address of the LAN side device of local, eg:192.168.0.2
Remote Host Address	The address of the LAN side device of remote host, eg:192.168.8.2
Local Udp Port	Lan side device udp port.
Remote Udp Port	Remote device udp port
Tunnel Address	Wan interface ip address
Remote Tunnel Address	Remote device wan interface ip address
Tunnel Id	Local device tunnel id
Remote Tunnel Id	Remote device tunnel id
Session Id	Local device session id
Remote session Id	Remote device session id
MTU	You can keep the maximum transmission unit (MTU) as default.

■ 5.2.6.4 Status

This page shows the status information for PPTP , L2TPv2 and L2TPv3

PPTP		L2TPv2		L2TPv3		Status
Connect name	Enable	Server IP Address	Local IP Address	Remote IP Address	Status	
PPTP	Disabled					
L2TP	Disabled					
L2TPv3	Disabled					

Figure 5-2-30 VPN status

5.3 Features

• 5.3.1 QoS

Enable QoS:

Automatic Uplink Speed:

Automatic Downlink Speed:

Name:

QoS Type:

protocol:

Local IP Address:

Local Port:

Remot IP Address:

Remote Port:

Mode:

Uplink Bandwidth (Kbps):

Downlink Bandwidth (Kbps):

Remark DSCP: (0-63)

Comment:

Figure 5-3-1 QoS

Object	Description
Automatic Uplink Speed	Automatic uplink speed.
Manual Uplink Speed (Kbps)	Set the download speed of your Internet access
Automatic Downlink Speed	Automatic downlink speed.
Manual Downlink Speed (Kbps)	Set the upload speed of your Internet access
Name	QoS rule name

• 5.3.2 Firewall

▪ 5.3.2.1. Advanced

Enable DMZ:

Enable UPNP:

Enable IGMP Proxy:

Enable Telnet Access on LAN:

Enable Telnet Access on WAN:

Enable Ping Access on WAN:

Enable Web Server Access on WAN:

Enable IPsec pass through on VPN connection:

Enable PPTP pass through on VPN connection:

Enable L2TP pass through on VPN connection:

Figure 5-3-2 Advanced

Object	Description
Enable DMZ	Enable or disable DMZ function
Enable UPnP	Enable or disable UPnP function
Enable IGMP Proxy	Enable or disable IGMP Proxy function
Enable Telnet Access on LAN	Enable or disable Telnet by LAN access
Enable Telnet Access on WAN	Enable or disable Telnet by WAN access
Enable Ping Access on WAN	Enable or disable Enable Ping Access on WAN function
Enable Web Server Access on WAN	Enable or disable Enable Web Server Access on WAN function
Enable IPSec pass through on VPN connection	Enable or disable IPSEC to pass through IPSEC communication data.
Enable PPTP pass through on VPN connection	Enable or disable PPTP to pass through PPTP communication data.
Enable L2TP pass through on VPN connection	Enable or disable L2TP to pass through L2TP communication data.

■ 5.3.2.2. Dos

A denial-of-service (DoS) attack is characterized by an explicit attempt by hackers to prevent legitimate users of a service from using that service.

Enable DoS Prevention

Whole System Flood: SYN 0 Packets/Second

Whole System Flood: FIN 0 Packets/Second

Whole System Flood: UDP 0 Packets/Second

Whole System Flood: ICMP 0 Packets/Second

Per-Source IP Flood: SYN 0 Packets/Second

Per-Source IP Flood: FIN 0 Packets/Second

Per-Source IP Flood: UDP 0 Packets/Second

Per-Source IP Flood: ICMP 0 Packets/Second

TCP/UDP PortScan: Low Sensitivity

ICMP Smurf:

IP Land:

IP Spoof:

IP TearDrop:

PingOfDeath:

TCP Scan:

TCP SynWithData:

UDP Bomb:

Figure 5-3-3 DoS

5.3.2.2. Dos

Enable IP Filtering:

Enable IPv4:

Enable IPv6:

Local IPv4 Address:

Local IPv6 Address:

Protocol: Both

Comment:

ip Filter Table

Local IP Address	Protocol	Comment	Select
			<input type="button" value="Delete Selected"/>
			<input type="button" value="Delete All"/>
			<input type="button" value="Reset"/>

Figure 5-3-4 IP Filtering

Object	Description
Enable IP Filtering	Enable or disable IP Filtering function
Enable IPv4	Enable or disable IPv4 Filtering feature.
Enable IPv6	Enable or disable IPv6 Filtering feature.
Local IPv4 Address	Set LAN side source IPv4 address
Local IPv6 Address	Set LAN side source IPv6 address
Protocol	Select "TCP", "UDP" or "Both"
Comment	Comment for the rule.

5.3.2.4 Port Filtering

Enable Port Filtering:

Enable IPv4:

Enable IPv6:

Port Range: -

Protocol: Both

Comment:

port Filter Table

Port Range	Protocol	IP Version	Comment	Select
				<input type="button" value="Delete Selected"/>
				<input type="button" value="Delete All"/>
				<input type="button" value="Reset"/>

Figure 5-3-5 Port Filtering

Object	Description
Enable IP Filtering	Enable or disable IP Filtering function.
Enable IPv4	Enable or disable IPv4 Port Filtering feature.
Enable IPv6	Enable or disable IPv6 Port Filtering feature.
Port Range	Set the port range for port filtering
Protocol	Select "TCP", "UDP" or "Both"
Comment	Comment for the rule.

■ 5.3.2.5 MAC Filtering

Mode: Blacklist Whitelist

MAC Address:

Comment:

mac Filter Table

MAC Address	Comment	Select
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>		

Figure 5-3-6 MAC Filtering

Object	Description
Model	You can set working model here, Black and White.
MAC Address	Enter a MAC address
Comment	Comment info.

■ 5.3.2.5 MAC Filtering

Enable Port Forwarding:

Local IP Address:

Local Port Start:

Local Port End:

Protocol: ▼

Remote IP Address:

Remote Port Start:

Remote Port End:

Comment:

Current Port Forwarding Table

Local IP Address	Local Port Range	Protocol	Remote IP Address	Remote Port Range	Status	Comment	Select
<input type="button" value="Delete Selected"/>		<input type="button" value="Delete All"/>		<input type="button" value="Reset"/>			

Figure 5-3-7 Port Forwarding

Object	Description
Enable Port Forwarding	Enable or disable Port Forwarding function.
Local IP Address	Enter a LAN IP address
Local Port Start	Enter LAN side start port.
Local Port End	Enter LAN side end port.
Protocol	Select "TCP", "UDP" or "Both".
Remote IP Address	Enter a WAN IP address
Remote Port Start	Enter the external start port
Remote Port End	Enter the external end port
Comment	Enter the port number

• 5.3.4 URL Filter

URL filter is used to deny LAN users from accessing the internet. Block those URLs which contain keywords listed below. Please note: URL Filter can not filter the HTTPS encrypted domain name.

Enable URL Filtering:

Deny URL address(black list):

Allow URL address(white list):

URL Address:

Save & Apply **Reset**

url Filter Table

URL Address	Select

Delete Selected **Delete All** **Reset**

Figure 5-3-8 URL Filter

Object	Description
Enable URL Filtering	Enable or disable URL Filtering function.
Deny URL address (black list)	Blocking access to the URL list.
Allow URL address (white list)	Allowing access to the URL list.
URL Address	Block or allow access URL.

• 5.3.5 Route

This menu shows you the current default route and static route. Static Route reduces route selection problems and corresponding data overload and accelerates data packet forwarding.

▪ 5.3.5.1 Default Route

You can select which wan connection as default gateway route. if not, system will auto select a connect up wan as default gateway route.

Connect name	Type	VlanMuxid	Action
WAN1	dhcp	---	
LTE	dhcp	---	UP

Figure 5-3-9 Default Route

5.3.5.2 Static Route

Enable Static Route:

IP Address:

Subnet Mask:

Gateway:

Metric:

Interface: ▼

Static Route Table

Destination IP Address	Netmask	Gateway	Metric	Interface	Status	Select
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>						

Figure 5-3-10 Static Route

Object	Description
Enable Static Route	Enable or disable Static route.
IP Address	Enter the destination network
Subnet Mask	Enter the network mask
Gateway	Enter the network gateway
Metric	Enter the routing metric
Interface	Select the interface

• 5.3.6 DynamicDNS

The Wireless Router supports Dynamic Domain Name Service (DDNS). The dynamic DNS service allows a dynamic public IP address to be associated with a static host name in any of the many domains, and allows access to a specified host from various locations on the Internet. Click a hyperlinked URL in the form of hostname.dyndns.org and allow remote access to a host. Many ISPs assign public IP addresses using DHCP, so locating a specific host on the LAN using the standard DNS is difficult. For example, if you are running a public web server or VPN server on your LAN, DDNS ensures that the host can be located from the Internet even if the public IP address changes. DDNS requires that an account be set up with one of the supported DDNS service providers

Figure 5-3-11 DDNS

Object	Description
Server Provider	Select server from the drop-down list <ul style="list-style-type: none"> • DynDNS • TZO
Domain Name User	Enter the host name
Name/Email	Enter the user name
Password/Key	Enter the password

5.4 Management

5.4.1 Time

5.4.1.1 NTP Server

Current Time: 2019 - 2 - 24 18 : 52 : 53

Copy LAN time: Copy Computer Time

Time Zone Select: (GMT+04:00)Abu Dhabi, Muscat

Enable NTP client update:

Automatically Adjust Daylight Saving:

NTP server: ntp1.dlink.com

Save & Apply Reset Refresh

Figure 5-4-1 NTP Server

Object	Description
Current Time	Select the time zone in your area
Copy LAN time	Copy time from computer.
Time Zone Select	Select time zone from the drop box.
Enable NTP client update	Enable or disable NTP client update.
Automatically Adjust Daylight Saving	Enable or disable daylight saving if you need this function
NTP Server	Select the well know NTP Server.
Manual IP Setting	Enter the server manually.

5.4.1.2 Auto Reboot

This feature can do the Reboot automatically at a specified time. Please note: "Auto Reboot" depend on the "NTP Server", you have to enable the 'NTP Server' when use this feature.

Days: 0 (Run time long, unit: days)

Hours Range: 0 - 0 (The system will restart at this hour interval)

Enable: Off

Save & Apply

Figure 5-4-3 Auto Reboot

Enable Log:

System All:

Wireless:

DoS:

Enable Remote Log:

Log Server IP Address:

Apply Changes

Refresh Clear

Figure 5-4-4 System Log

Object	Description
Enable Log	Enable or disable Log function.
System All	Print all log information.
Wireless	Print wireless log information.
DoS	Print DoS log information.
Enable Remote Log	Enable or disable "Logging to Syslog Server"
Log Server IP Address	Enter the Syslog server IP address

5.4.3 System Settings

5.4.3.1 Administrator

Connect name: ADMIN

User Name:

New Password:

Confirmed Password:

Save & Apply Reset

Figure 5-4-5 Administrator

Object	Description
Connect name	Modify admin or user account.
Username	Enter the new username.
Password	Enter the new password.
Confirmed Password	Enter the new password again.

5.4.3.2 System

This screen allows you to back up, restore, and erase the router's current settings. Once you have the router working correctly, you should back up the information to have it available if something goes wrong. When you back up the settings, they are saved as a file on your computer. You can restore the router's settings from this file.

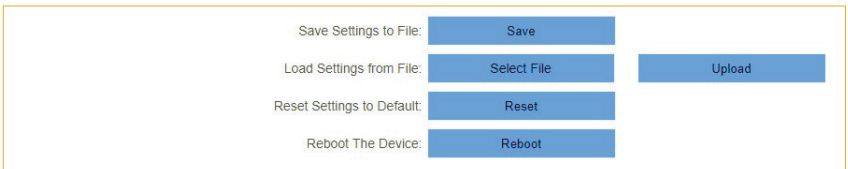


Figure 5-4-6 System

Object	Description
Save settings to file	Save the setting to local PC
Load settings from File	Load the settings from local PC
Reset Settings to Default	Restore the device to factory default
Reboot the device	Press the button to reboot the device



When you load new configuration, the original configuration will be lost. Please back up the current configuration before loading a new one. In this way, if the new configuration file has an error, you can load the backup file.



DO NOT shut down your router when loading a configuration file. Otherwise, the router may be damaged.

• 5.4.4 Statistics

▪ 5.4.4.1 User Statistics

This page shows each user's total traffic statistics and LTE traffic statistics.

User Statistics		Interface Statistics		
IP Addr	Total Down	Total Up	Lte Down	Lte Up
192.168.0.2	0 Bytes	0 Bytes	0 Bytes	0 Bytes

Figure 5-4-7 User Statistics

▪ 5.4.4.2 Interface Statistics

This page shows the packet counters for transmission and reception regarding to wireless and Ethernet networks.

User Statistics		Interface Statistics	
Wireless 1 LAN	Sent Bytes	83300	
	Received Bytes	0	
Wireless 2 LAN	Sent Bytes	182284	
	Received Bytes	76	
Ethernet LAN1	Sent Bytes	12157147	
	Received Bytes	1600333	
Ethernet LAN2	Sent Bytes	15598833	
	Received Bytes	1121566	
Ethernet LAN3	Sent Bytes	0	
	Received Bytes	0	
Ethernet LAN4	Sent Bytes	0	
	Received Bytes	0	
WAN	Sent Bytes	0	
	Received Bytes	0	
LTE	Sent Bytes	0	
	Received Bytes	0	

[Refresh](#)

Figure 5-4-8 Interface Statistics

• 5.4.5 TR069

This page is used to configure the TR069. Here you may change the setting for the ACS's parameters.

TR069: Disabled Enabled

ACS:

User Name:

Password:

Periodic Inform Enable: Disabled Enabled

Periodic Inform Interval:

Connection Request

User Name:

Password:

Path:

Port:

Certificat Management

CA Certificat:

Figure 5-4-9 TR069

Object	Description
TR069	Enable or disable TR069.
ACS	ACS server domain or IP Address.
User Name	User name for connection to ACS.
Password	Password for connection to ACS.
Periodic Inform Enable	Enable or disable periodic inform.
Periodic Inform Interval	Periodic inform interval.
Connection Request User Name	User Name used form ACS connection to TR069.
Connection Request Password	Password used form ACS connection to TR069.
Path	Connection request path.
Port	Connection port.

• 5.4.6 Upgrade

▪ 5.4.6.1 Firmware Upgrade

You install new version of the router's software using this page. From time to time, we may release new versions of the Router's firmware. Firmware updates contain improvements and fixes the current problems. On this page, you can check the firmware version and upgrade firmware.

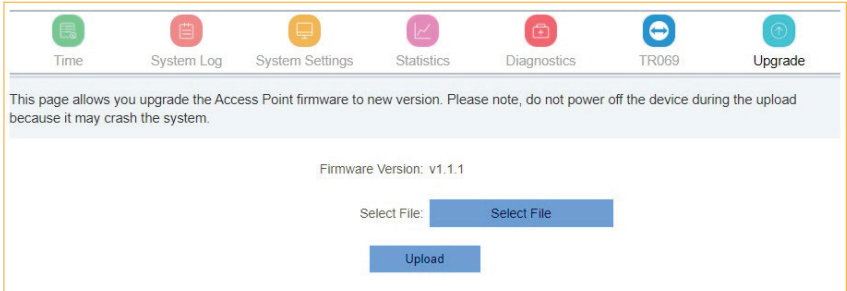


Figure 5-4-10 Upgrade



DO NOT turn off the power or press the Reset button when updating the firmware. Otherwise, the router may be damaged.

▪ 5.4.6.2 LTE Fota Upgrade

This page allows you upgrade the Mobile module firmware to new version. Please note, do not power off the device during the upload because it may crash the system.



Figure 5-4-11Fota Upgrade



DO NOT turn off the power or press the Reset button when updating the firmware. Otherwise, the router may be damaged.



AT	BE	CY	CZ	DK	EE	FI
FR	DE	EL	HU	IE	IT	LV
LT	LU	MT	NL	PL	PT	SK
SI	ES	SE	UK	BG	RO	HR