

# D-Link®

## DIR-825M User Manual



# DIR-825M user manual

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## **Chapter 1. Introduction**

### **1.1 Product Description**

DIR-825M Wireless Broadband Router supports IEEE 802.11b/g/n/ac standard, dual band, and Gigabit LAN and WAN, thus providing the wireless speed of 867Mbps in the 5GHz frequency band and 300Mbps in the 2.4GHz frequency band at the same time, which is 16 times faster than that of the traditional 11g access point. With its outstanding stability of high-speed wireless transmission and enhanced reliability, the DIR-825M can provide users with excellent multimedia streaming through their mobile devices anywhere, anytime in the home and office.

## 1.2 Product Features

- **IEEE Compliant Wireless LAN and Wired LAN**
  - Compliant with IEEE 802.11a/b/g/n/ac dual band [2.4G (300Mbps) and 5G (867Mbps)] wireless
  - Equipped with 4x 10/100/1000Mbps Fast Ethernet ports and 1x 10/100/1000Mbps WAN ethernet port which supports auto MDI/MDI-X
  
- **Fixed Network Broadband Router**
  - Supports WAN connection types: DHCP, static IP, PPPoE
  - Supports DDNS and DHCP Servers
  
- **Comprehensive Wireless Advanced Features**
  - Supports AP /client / repeater mode
  - Supports WMM (Wi-Fi Multimedia) and wireless QoS to enhance the efficiency of multimedia application
  - Supports multiple SSID
  - Supports TX and RX restrict
  
- Secure Network Connection**
  - Supports Wi-Fi Protected Setup (WPS)
  - Support WEP/WPA/WPA2 wireless security encryption
  - Supports NAT firewall, IP / URL-based access control and MAC address filtering
  
- **Advanced Networking Function for Specific Application**
  - Supports Bandwidth Control (QoS) based on different local IP addresses
  - Supports NTP, Port Forwarding, UPnP and DMZ for various networking applications
  - Supports USB storage(Samba)
  
- **Easy Installation and Management**
  - Web-based UI and Quick Setup Wizard for easy configuration
  - Remote Management allows configuration from a remote site
  - System status monitoring includes DHCP Client List and System Log

## 1.3 Product Specifications

<b>Model</b>	DIR-825M 1200Mbps 802.11ac Dual Band Wireless Gigabit Router	
<b>Hardware Specifications</b>		
<b>Interface</b>	WAN Port:	1 x 10/100/1000 Mbps auto MDI/MDI-X RJ45 port
	LAN Port:	4 x 10/100/1000 Mbps auto MDI/MDI-X RJ45 port (LAN1~4)
	USB Port:	1 x USB 2.0, Type A, 5V 500mA
<b>Antenna</b>	Gain:	2x5dBi 2.4g external antenna
		2x5dBi 5g external antenna
<b>Button</b>	1 x reset button	
	1 x WPS button	
<b>LED Indicators</b>	POWR x 1	
	WAN x 1	
	LAN x 4	
	WLAN x 2	
	WPS x 1	
	USB x 1	
<b>Material</b>	Plastic	
<b>Dimensions (W x D x H)</b>	192x 118x 31 mm (W x D x H)	
<b>Weight</b>	322g	
<b>Power Requirement</b>	12V DC, 1A	
<b>Power Consumption</b>	9W	
<b>Wireless Interface Specifications</b>		
<b>Standard</b>	IEEE 802.11ac 5GHz	
	IEEE 802.11a/n 5GHz	
	IEEE 802.11b/g/n 2.4GHz	
<b>Frequency Band</b>	Simultaneous 2.4GHz and 5GHz	
<b>Modulation Type</b>	802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)	
	802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)	
	802.11b: DSSS (DBPSK / DQPSK / CCK)	

<b>Data Rates</b>	2.4GHz up to 300Mbps 5GHz up to 867Mbps
<b>Channel</b>	2.4GHz FCC (America): 2.412~2.462GHz (11 Channels) ETSI (Europe): 2.412~2.472GHz (13 Channels)
	5GHz 5150~5250MHz 5250~5350MHz 5470~5725MHz 5725~5825MHz *The actual channels in application will vary depending on the regulation in different regions and countries.
<b>Channel Width</b>	802.11ac: 20/40/80MHz 802.11n: 20/40MHz
<b>Max. RF Power / EIRP</b>	2.4GHz: < 30dBm 5GHz: < 30dBm
<b>Receive Sensitivity</b>	2.4GHz 11b (11Mbps): -79dBm 11g (54Mbps): -68dBm 11n (20M) mode: -67dBm 11n (40M) mode: -64dBm
	5GHz 11a: -74dBm 11n (20M) mode: -70dBm 11n (40M) mode: -67dBm 11ac (20M) mode: -67dBm 11ac (40M) mode: -61dBm 11ac (80M) mode: -57dBm
<b>SSID</b>	2.4GHz: 1 Root SSID and 4 Guest SSID 5GHz: 1 Root SSID and 4 Guest SSID
<b>Wireless Management Features</b>	
<b>Encryption Security</b>	WEP WPA/WPA2 personal mixed mode
<b>Wireless Security</b>	Wireless ACL MAC address filtering
	Supports WPS (Wi-Fi Protected Setup )



<b>Max. Supported Clients</b>	2.4GHz wireless: 32 5GHz wireless: 32
<b>Wireless Extender</b>	Supports repeater
<b>Router Features</b>	
<b>Internet Connection Type</b>	Shares data and Internet access for users, supporting the following Internet accesses:  <ul style="list-style-type: none"> <li>■ ETH Router mode <ul style="list-style-type: none"> <li>-&gt;DHCP</li> <li>-&gt;Static IP</li> <li>-&gt;PPPoE</li> </ul> </li> </ul>
<b>Firewall</b>	NAT firewall, SPI firewall
	Built-in NAT server which supports Port Forwarding and DMZ
	Built-in firewall with URL filtering, and MAC address filtering
<b>LAN</b>	Built-in DHCP server supporting static IP address distribution
	Supports packet statistics
<b>USB Sharing</b>	Samba
<b>System Management</b>	Web-based (HTTP) management interface
	Remote management (WAN Access Control)
	Supports UPnP, DDNS
	SNTP synchronization
	System log
<b>Standards Conformance</b>	
<b>IEEE Standards</b>	IEEE 802.11n (2T2R, up to 300Mbps)  IEEE 802.11g IEEE 802.11b IEEE 802.11i  IEEE 802.3 10BASE-T  IEEE 802.3u 100BASE-TX
<b>Other Protocols and Standards</b>	TCP/IP, DHCP, ICMP, NAT, PPPoE, SNTP
<b>Regulatory</b>	CE, RoHS, WEEE

<b>Environment</b>	
<b>Temperature</b>	Operating: 0 ~ 40 degrees C Storage: -40 ~ 70 degrees C
<b>Humidity</b>	Operating: 10 ~ 90% (non-condensing) Storage: 5 ~ 95% (non-condensing)

## Chapter 2. Hardware Installation

Please follow the instructions below to connect the DIR-825M to the existing network devices and your computers.

### 2.1 Hardware Description

- **Dimensions:** 192x 118x 31 mm (W x D x H)
  
- **Diagram :**



Figure 2-1-1



Figure 2-1-2

### 2.1.1 Front LED

The front LED provides a simple interface monitoring the router. [Figure 2-1-1-1](#) shows the front LED of the DIR-825M.

#### Front LED

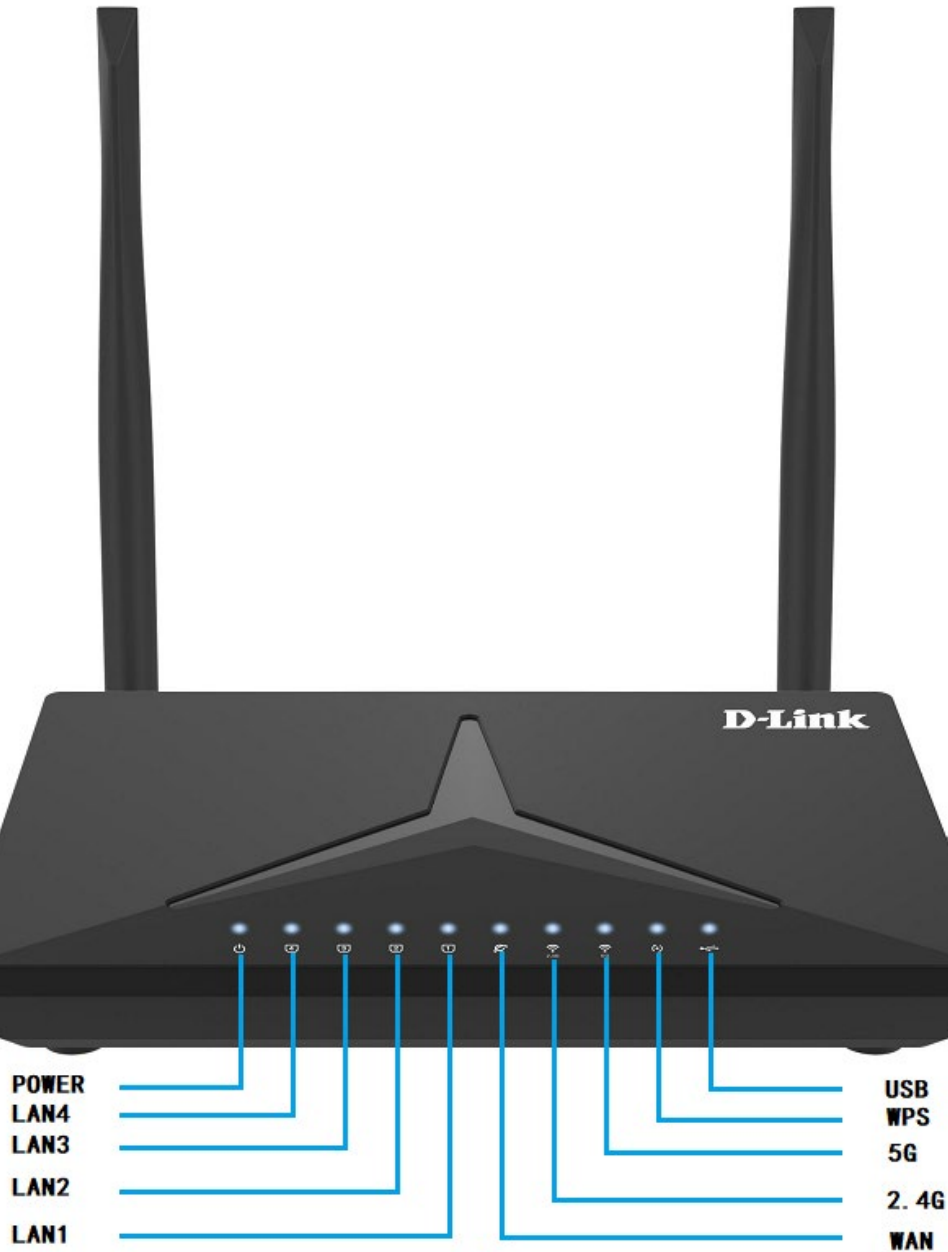


Figure 2-1-1-1 DIR-825M Top View

### 2.1.2 LED Indications

The LEDs on the front panel indicate instant status of port links, wireless data activity, system power, USB and WPS, and help monitor and troubleshoot when needed. [Figure 2-1-1-1](#) and [Table 2-1-2-1](#) 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.
5G	On	The 5GHz Wi-Fi is activated.
	Flash	Device is transmitting data wirelessly over 5.8GHz.
	Off	The 5GHz Wi-Fi is disabled.
WPS	Flash	WPS is triggered
	Off	WPS is connected or disable
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.
USB	On	USB connection is established.
	Flash	Data is being transmitted.
	Off	USB connection is not established.

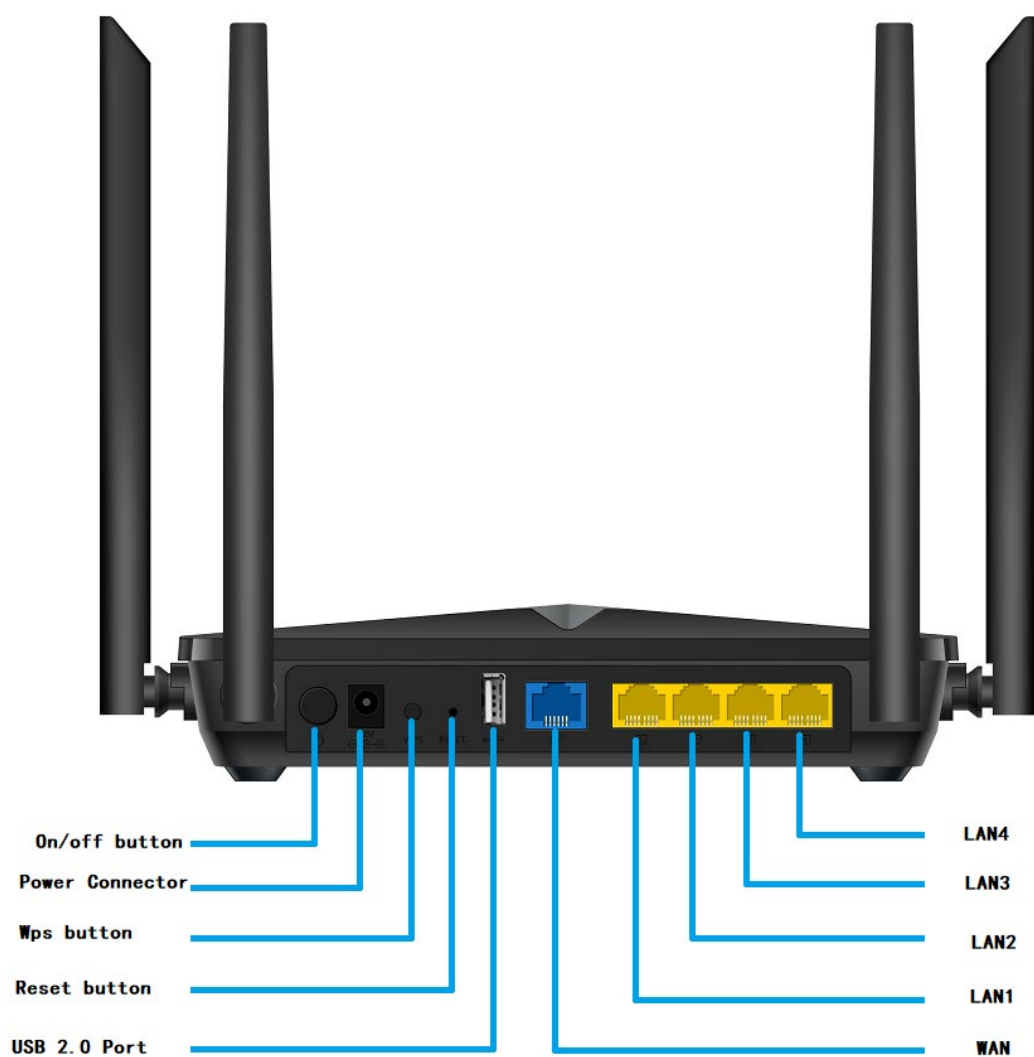
Table 2-1-2-1 LED Indications

### 2.1.3 Rear Panel

The rear panel provides the physical connectors connected to the power adapter and any other network device.

Figure 2-1-3-1 shows the rear panel of the DIR-825M.

**Rear Panel**



**Figure 2-1-3-1** Rear Panel of the DIR-825M

Interface	Description
<b>On/off button</b>	Power On/Off button
<b>Power Connector</b>	Connect to the power adapter provided in the package
<b>WPS</b>	Press it will enable WPS function
<b>Reset</b>	Press the Reset button gently for 3 seconds and then release it. The system restores to the factory default settings



<b>USB</b>	USB Port
<b>WAN</b>	Connect to the Cable/xDSL Modem or the Ethernet
<b>LAN1-4</b>	Connect to the user's PC or network devices

**Table 2-2** Interface Indications

### 2.1.4 Bottom panel



**Figure 2-1-4-1** bottom of the DIR-825M

## 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 Windows XP, Windows Vista, Windows 7/8/10, MAC OS 9 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 DIR-825M.
  2. It is recommended to use Internet Explorer 7.0 or above to access the Router.
- 

### 3.2 Installing the Router

Before installing the 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.

**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 **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 **Windows 7**. 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.

### **1. Installing TCP/IP Component**

- 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**.

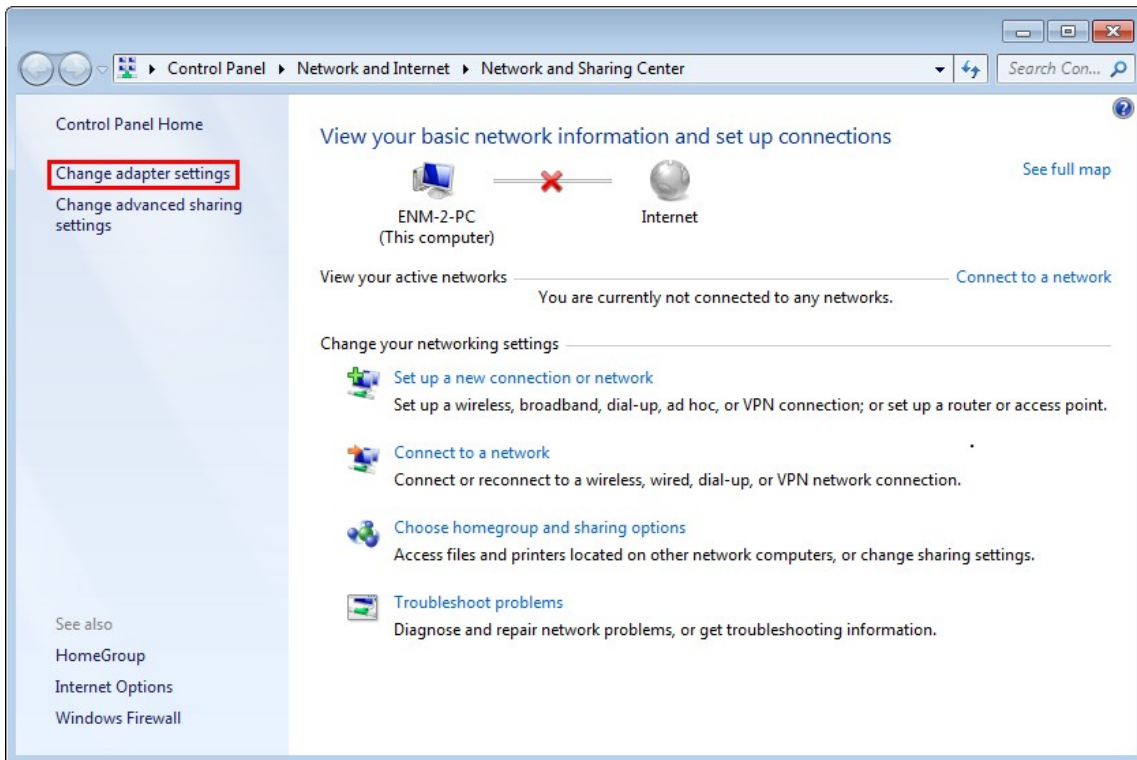


Figure 4-1-1-1 Change Adapter Settings

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

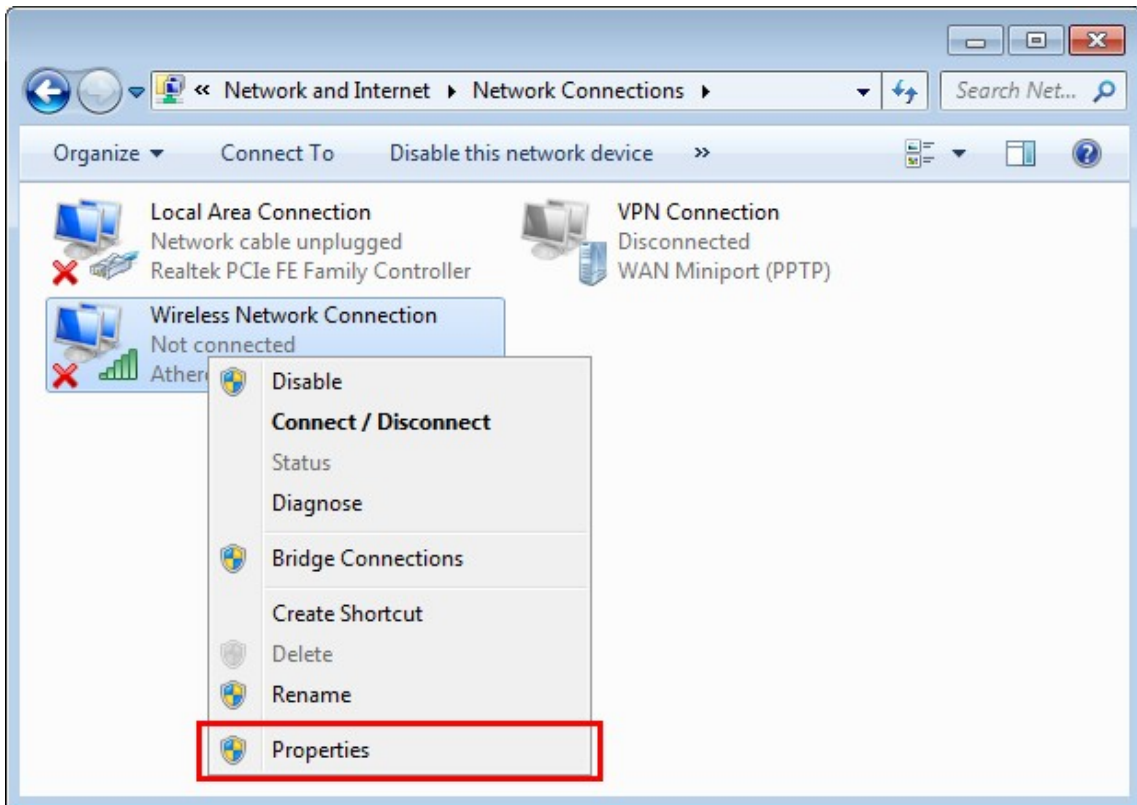


Figure 4-1-1-2 Network Connection Properties

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

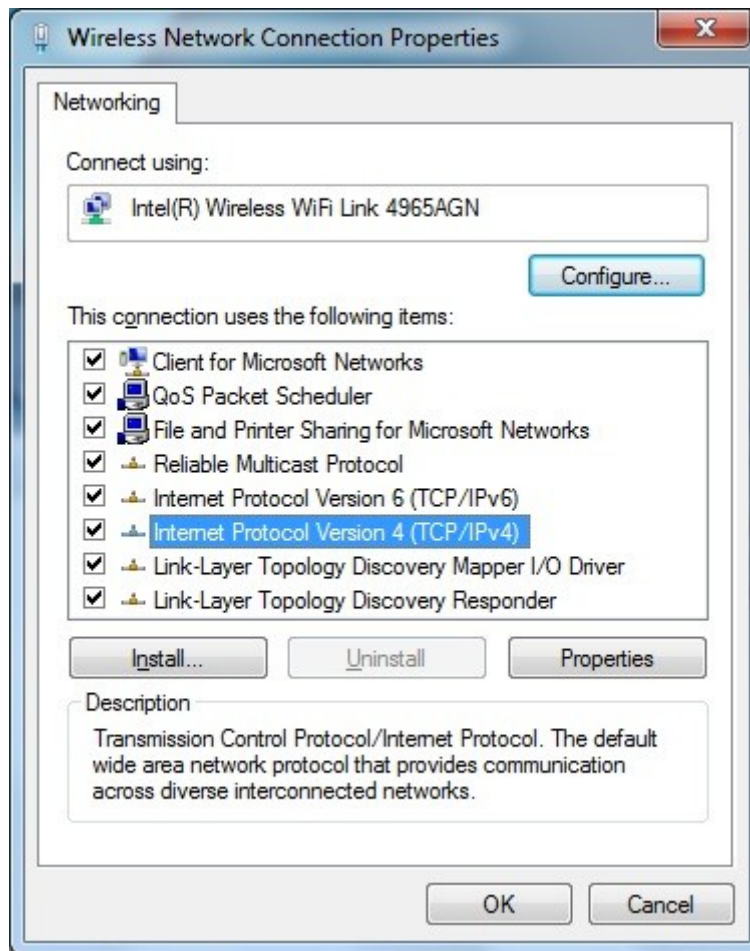
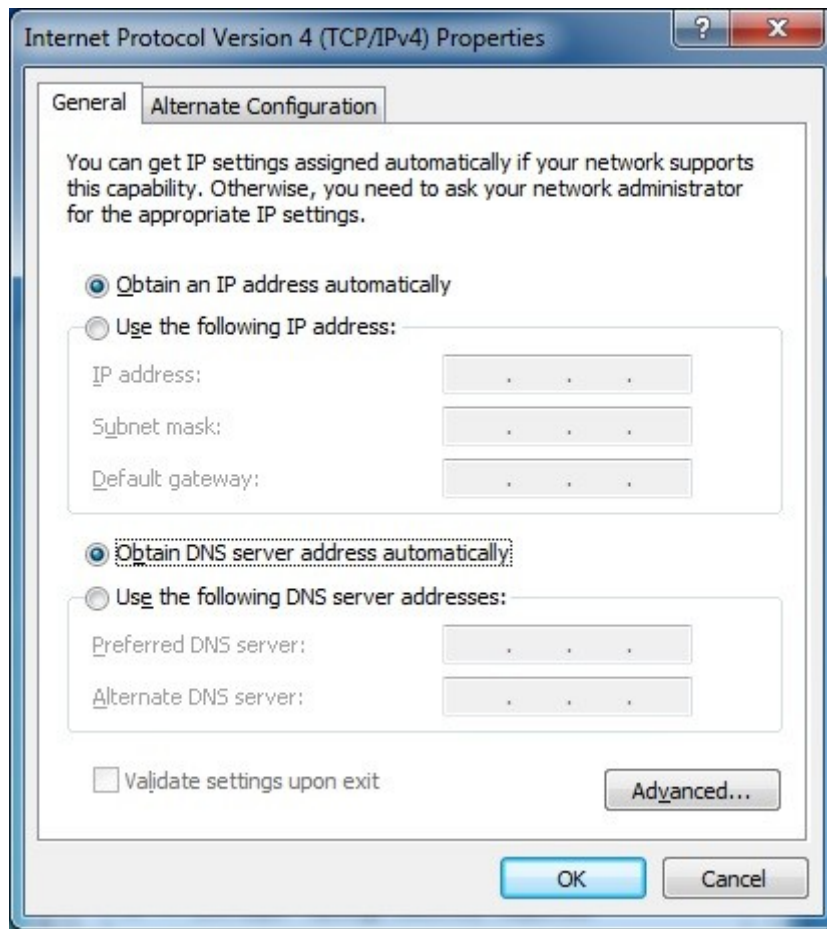


Figure 4-1-1-3 TCP/IP Setting

- 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 4-1-1-4** Obtain an IP Address Automatically

## 4.1.2 Configuring the IP Address Manually

Summary:

- Set up the TCP/IP Protocol for your PC.
- 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** radiobutton.

- 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.

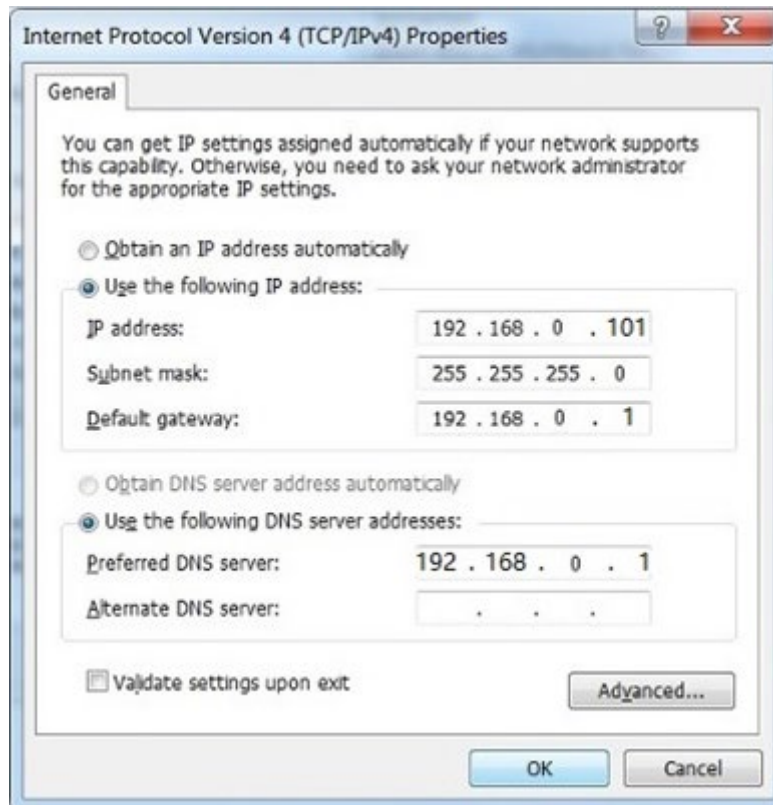
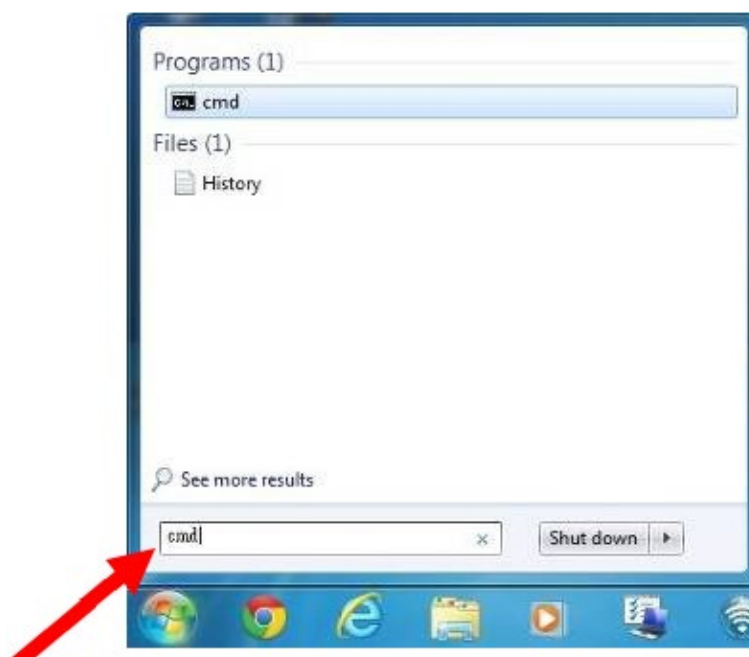


Figure 4-1-2-1 IP and DNS Server Addresses

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 Search box.



**Figure 4-1-2-2**

3. Open a command prompt, and type ping **192.168.0.1**, and then press **Enter**.
  - If the result displayed is similar to [Figure 4-1-2-3](#), 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 4-1-2-3 Successful Ping Command

- If the result displayed is similar to [Figure 4-1-2-4](#), 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 4-1-2-4 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.



---

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 DIR-825M with the web browser.

**Step 1.** To access the configuration utility, open a web-browser and enter the default IP address <http://192.168.0.1> in the web address field of the browser.

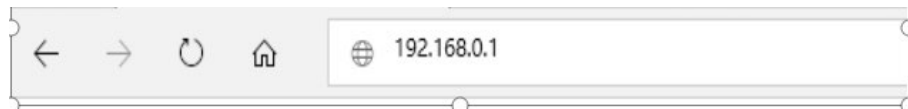


Figure 4-2-1 Login the Router

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.

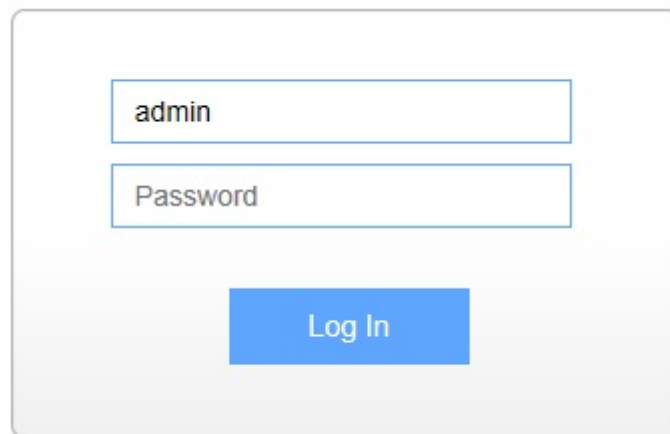


Figure 4-2-2 Login Window

Default IP Address: **192.168.0.1**

Default User Name: **admin**

Default Password: **admin**



Note

If the above screen does not pop up, it may mean that your web-browser has been set to a proxy. Go to Tools menu>Internet Options>Connections>LAN Settings in the screen that appears, cancel the Using Proxy checkbox, and click OK to finish it.

The first time login router, it will enter wizard setup, the **Wizard Setup** page screen appears as [Figure 4-2-3](#).

### Setup Wizard

The setup wizard will guide you to configure Router for first time. Please follow the setup wizard step by step.

Welcome to Setup Wizard.

The Wizard will guide you the through following steps. Begin by clicking on Next.

Next>>

**Figure 4-2-3** DIR-825M Web UI Screenshot

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

### Step 1: Operation Mode

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 or static IP.

Bridge/AP:  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 Router. 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 or static IP.

Cancel

<<Back

Next>>

**Figure 4-2-4** Configure the Operation Mode.

**Step 3.** Choose “Next” and you can configure the WAN Interface Setup.

### Step 2: WAN Interface Setup

WAN Access Type:

Clone MAC Address:

Enable VLAN:

Cancel

<<Back

Next>>

**Figure 4-2-5** Configure the Time Zone Setting.



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

### Step 3: LAN Interface Setup

---

IP Address:

Subnet Mask:

**Figure 4-2-6** Configure LAN Interface Setup.

**Step 5.** Choose “Next” and you can configure login password.

### Step 4: Set admin account

---

New Password:

Confirmed Password:

**Figure 4-2-7** Configure WAN Interface setup.

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

### Step 5: Setup Wireless

#### 2.4GHz

Enable Wireless:

SSID:

Password:

#### 5GHz

Enable Wireless:

SSID:

Password:

**Figure 4-2-8** Configure Wi-Fi Interface setup.

# 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 shows the D-Link web interface for the DIR-825M router. At the top, there is a navigation bar with the D-Link logo, the model number 'HW:A1 FW:DIR-825M\_V1.1.6', and several menu icons: Home, Wizard, Settings, Features, Management, and Logout. Below the navigation bar is a network status diagram showing the Internet connection to the DIR-825M router, which is currently disconnected (indicated by a red 'X' and a 'Click to repair' button). The router is connected to one client (indicated by a green line and 'Connected Clients: 1').

The 'Internet' section is expanded, showing configuration options for IPv4 and IPv6. The IPv4 section is active, and the IPv6 section is inactive. The IPv4 configuration table is as follows:

IPv4		IPv6	
MAC Address	Connection Type	Network Status	Connection Uptime
f4:8c:eb:09:32:66		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	
MAC Address f4:8c:eb:09:32:66	Connection Type	Network Status Disconnected	Connection Uptime
IP Address Not Available	Default Gateway Not Available	Primary DNS Server Not Available	Secondary DNS Server Not Available

Figure 5-1-1 Router IPv4 Status

#### Internet

IPv4		IPv6	
MAC Address f4:8c:eb:09:32:66	Connection Type DHCPv6	Network Status Disconnected	Connection Uptime
WAN IPv6 Address Not Available	Default Gateway Not Available	Primary DNS Server Not Available	Secondary DNS Server Not Available

Figure 5-1-1-1 Router IPv6 Status

### 5.1.2 DIR-825M

On this page, you can view information about the current LAN and Wi-Fi status of the DIR-825M.

## DIR-825M

IPv4 Network		IPv6 Network	
MAC Address:	f4:8c:eb:99:32:66	Link-Local Address:	fe80::1
Router IP Address:	192.168.0.1	Router IPv6 Address:	Not Available
Subnet Mask:	255.255.255.0		

System		CPU	
Uptime:	0 Day 0:3:0	CPU Usage:	36.75%
Build Time:	Mon Aug 24 11:37:54 CST 2020	Memory (Free/Total):	68400/106400

Wi-Fi 2.4GHz		Wi-Fi 5GHz	
Status:	Up	Status:	Up
Wi-Fi Name (SSID):	dlink-825M-2.4G-3266	Wi-Fi Name (SSID):	dlink-825M-5G-3266
Encryption:	WPA2-WPA3-Mixed	Encryption:	WPA2-WPA3-Mixed
BSSID:	f4:8c:eb:d9:32:66	BSSID:	f4:8c:eb:49:32:66
Channel Number:	4	Channel Number:	149

Figure 5-1-2-1 DIR-825M Info

### 5.1.3 Connected Clients

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

#### Connected Clients

Hostname	IP Address	MAC Address
	192.168.0.2	08:57:00:ec:32:71

Figure 5-1-3-1 Connected Clients

## 5.2 Settings

### 5.2.1 WAN

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

D-Link  
HW:A1 FW:DIR-825M\_V1.1.6

Home Wizard Settings Features Management Logout

WAN Operation Mode 2.4G WiFi 5G WiFi Easy Mesh LAN VPN USB

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

IPv4 IPv6 Status Bridge Vlan

Connect name: WAN1

Enable:

WAN Access Type: Dynamic IP (DHCP)

MTU: 1500 (1280-1500 bytes)

Option 43:

Clone MAC Address: 000000000000 [Clone MAC](#)

Enable VLAN:

Save & Apply

**Figure 5-2-1-1 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)

Option 43:

Clone MAC Address:

Enable VLAN:

**Figure 5-2-1-1-1 DHCP**

Object	Description
<b>MTU</b>	You can keep the maximum transmission unit (MTU) as default.
<b>VLAN ID</b>	Enter the VLAN ID value provided by your ISP.
<b>WAN Type</b>	From this feature, user can distinguish different services.
<b>Option 43</b>	CPE get the acs url via Option 43

**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:

Enable:

WAN Access Type:

IP Address:

Subnet Mask:

Default Gateway:

MTU:  (1400-1500 bytes)

DNS 1:

DNS 2:

Clone MAC Address:

Enable VLAN:

Figure 5-2-1-1-2 Static IP



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

Enable:

WAN Access Type:  ▼

User Name:

Password:

Service Name:

MTU:  (1360-1492 bytes)

Connection Type:  ▼

Clone MAC Address:

Enable VLAN:

**Figure 5-2-1-1-3 PPPoE**

Object	Description
<b>Username</b>	Enter the User Name provided by your ISP.
<b>Password</b>	Enter the password provided by your ISP.
<b>VLAN ID</b>	Enter the VLAN ID value provided by your ISP.
<b>WAN Type</b>	From this feature, user can distinguish different services.
<b>Service Name</b>	Type the name of this router.
<b>MTU</b>	You can keep the maximum transmission unit (MTU) as default.
<b>Connection Type</b>	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:  :  :  :  :  :  :  :  /

Default Gateway:  :  :  :  :  :  :  :  /

DNS:  :  :  :  :  :  :  :  /

---

Enable MLD Proxy:

Figure 5-2-1-2-1 IPv6 Static

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

Enable IPv6:

Origin Type:

Address Mode:

DUID: 00030001f48ceb093266

PD Enable:

Enable MLD Proxy:

**Figure 5-2-1-2-2 IPv6 auto**

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

Enable IPv6:

Origin Type:

---

6RD IPv6 Prefix:  :  :  :  :  :  :  :  /

WAN IPv4 Address:  /

6RD Border Relay IPv4 Address:

DNS:  :  :  :  :  :  :  :  /

---

Enable MLD Proxy:

Figure 5-2-1-2-3 IPv6 6RD

Object	Description
Origin Type	Current origin type 6RD.
6RD IPv6 Prefix	WAN IPv6 prefix delegation
WAN IPv4 Address	WAN 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	Bridge Vlan		
Connect name	Enable	Type	Vlan ID	Status	IP Address	Gateway	DNS
WAN1	Enabled	dhcp	---	Disconnected			
WAN2	Disabled						
WAN3	Disabled						
WAN4	Disabled						

Figure 5-2-1-3-1 Status

## 5.2.2 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 or static IP.
- Bridge/AP:  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 Router. 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 or static IP.

Save & Apply      Reset

Figure 5-2-3-1 Operation Mode

## 5.2.3 Wi-Fi

### 5.2.3.1. Wi-Fi

Disable Wireless LAN Interface:

Country or Region: UNITED ARAB

Band: 2.4 GHz (B+G+N)

Mode: AP

SSID: dlink-825M-2.4G-3266

Channel Width: 20MHz

Control Sideband: Upper

Channel Number: Auto

BroadcastSSID: On

WMM: On

Data Rate: Auto

Associated Clients:

Enable Universal Repeater Mode:

Figure 5-2-4-1-1 2.4GHz Wi-Fi

Object	Description
<b>Disable Wireless LAN Interface</b>	You may choose to enable or disable Wireless function.
<b>Band</b>	Set the wireless mode to which you need. Default is “ <b>Mixed 802.11b/g/n</b> ”. 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 DIR-825M
<b>Mode</b>	WLAN working mode, such AP, client, WDS and AP+WDS.
<b>MultipleAP</b>	You can set guest SSID from this button.
<b>Network Type</b>	You can config WLAN network type with this parameter.
<b>SSID</b>	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.
<b>Channel Width</b>	Select a proper channel bandwidth to enhance wireless performance. When there are 11b/g and 11n wireless clients, please select the 802.11n mode of 20/40MHz frequency band.
<b>Control Sideband</b>	Control channels are only applicable if your gateway is operating at

	40 MHz bandwidth and the 802.11n mode is configured as Automatic.
<b>Channel Number</b>	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.
<b>BroadcastSSID</b>	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.
<b>WMM</b>	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.
<b>Associated Clients</b>	This option shows you all the clients which connected to this SSID.
<b>Enable Universal Repeater Mode</b>	Repeater mode

## 5.2.3.2. Security

Select SSID:  ▼

Encryption:  ▼

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

WPA2 Cipher Suite:  TKIP  AES

Management Frame Protection:  none  capable  required

Pre-Shared Key Format:  ▼

Pre-Shared Key:

Figure 5-2-4-2-1 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 <b>Encryption</b> dropdown list. There are 6 options in the Security Mode dropdown list: <ul style="list-style-type: none"> <li>■ <b>Disable</b></li> <li>■ <b>WEP</b></li> <li>■ <b>WPA2</b></li> <li>■ <b>WPA-Mixed</b></li> <li>■ <b>WPA3</b></li> <li>■ <b>WPA2-WPA3-MIXED</b></li> </ul>
Pre-Shared Key	Enter the Wi-Fi password

## 5.2.3.3. ACL



Wireless ACL Mode:  ▼

MAC Address:  Connect client Lists

Comment:

Save & Apply Reset

Current ACL List

MAC Address	Comment	Select
<span>Delete Selected</span> <span>Delete All</span> <span>Reset</span>		

Figure 5-2-4-3-1 Wi-Fi security

Object	Description
<b>Wireless ACL Mode</b>	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.
<b>MAC Address</b>	The MAC address of the client.
<b>Comment</b>	Comment

#### 5.2.3.4. 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

Site Survey

SSID	BSSID	Channel Number	Type	Encrypt	Signal
------	-------	----------------	------	---------	--------

Figure 5-2-4-4-1 Site Survey

5.2.3.5. WPS

DisableWPS:

---

WPS Status:  Configured  UnConfigured

Auto-lock-down state: unlocked

Self-PIN Number: 39242907

Push Button Configuration:

STOP WSC

Client PIN Number:

Figure 5-2-4-5-1 WPS

Object	Description
<b>WPS</b>	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.
<b>Disable WPS</b>	Enable or disable WPS function.

5.2.3.6. Wireless Schedule

Enable Wireless Schedule:

Enable	Day	From	To
<input type="checkbox"/>	Sun ▼	00 ▼ (hour) 00 ▼ (min)	00 ▼ (hour) 00 ▼ (min)
<input type="checkbox"/>	Sun ▼	00 ▼ (hour) 00 ▼ (min)	00 ▼ (hour) 00 ▼ (min)
<input type="checkbox"/>	Sun ▼	00 ▼ (hour) 00 ▼ (min)	00 ▼ (hour) 00 ▼ (min)
<input type="checkbox"/>	Sun ▼	00 ▼ (hour) 00 ▼ (min)	00 ▼ (hour) 00 ▼ (min)
<input type="checkbox"/>	Sun ▼	00 ▼ (hour) 00 ▼ (min)	00 ▼ (hour) 00 ▼ (min)
<input type="checkbox"/>	Sun ▼	00 ▼ (hour) 00 ▼ (min)	00 ▼ (hour) 00 ▼ (min)
<input type="checkbox"/>	Sun ▼	00 ▼ (hour) 00 ▼ (min)	00 ▼ (hour) 00 ▼ (min)
<input type="checkbox"/>	Sun ▼	00 ▼ (hour) 00 ▼ (min)	00 ▼ (hour) 00 ▼ (min)
<input type="checkbox"/>	Sun ▼	00 ▼ (hour) 00 ▼ (min)	00 ▼ (hour) 00 ▼ (min)
<input type="checkbox"/>	Sun ▼	00 ▼ (hour) 00 ▼ (min)	00 ▼ (hour) 00 ▼ (min)

Figure 5-2-4-6-1 Wireless Schedule

5.2.3.7. Easy Mesh

Role:  Controller  Agent  Disabled

Backhaul BSS:  5G  2.4G

Device Name:

WPS Trigger:

Topology:

Figure 5-2-4-7-1 Easy Mesh Controller

Role:  Controller  Agent  Disabled

Backhaul STA:  5G  2.4G

Device Name:

WPS Trigger:

Figure 5-2-4-7-2 Easy Mesh Agent

Network Topology:

- EasyMeshController | 021018999999 | 192.168.0.1 |
- EasyMeshAgent2 | 021018777777 | 192.168.0.101 |
- EasyMeshAgent1 | 00e04c811133 | 192.168.0.100 |

Figure 5-2-4-7-3 Topology

Network Topology:

- EasyMeshController | 021018999999 | 192.168.0.1 |
- EasyMeshAgent1 | 00e04c811133 | 192.168.0.100 |
- EasyMeshAgent2 | 021018777777 | 192.168.0.1 |

Figure 5-2-4-7-4 Topology

## 5.2.4 LAN

### 5.2.4.1. 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)

DNS:

Static DHCP:

Domain Name:

802.1d Spanning Tree:  ▼

**Figure 5-2-5-1-1 LAN IPv4**

Object	Description
<b>LAN IP Address</b>	Router's LAN IP. The default is <b>192.168.0.1</b> . You can change it according to your needs.
<b>Subnet Mask</b>	Router's LAN subnet mask.
<b>WORK MODE</b>	If it is selected, the router serves as the DHCP server and automatically assigns IP addresses to all computers in the LAN.
<b>DHCP Client Range</b>	Enter the start and end IP address of all the available successive IPs.
<b>Lease Time</b>	Select the time for using one assigned IP from the dropdown list. After the lease time, the AP automatically assigns new IP addresses to all connected computers.

<b>Static DHCP</b>	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.
<b>Domain Name</b>	Set the domain name of the Router.
<b>802.1d Spanning Tree</b>	Enable or disable spanning tree function.

### 5.2.4.2. 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 5-2-5-2-1 Static DHCP

### 5.2.4.3. IPv6

This page shows the information of IPv6.

IP Address:

DHCPv6 Server Enable:

Address Mode:

RADVD Enable:

Prefix:

AdvValidLifetime:

AdvPreferredLifetime:

Figure 5-2-5-3-1 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.

#### 5.2.4.4. TUNNEL 6 over 4

This page used for Tunnel 6 over 4.

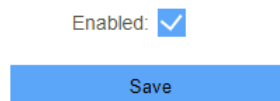


Figure 5-2-26 TUNNEL 6 over 4

Object	Description
Enable	Enable or disable tunnel 6 over 4.

5-2-5-4-1 TUNNEL 6 over 4

## 5.2.5 VPN

### 5.2.5.1. PPTP

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

PPTP	L2TPv2	L2TPv3	Status
------	--------	--------	--------

Enable:

Server:

Username:

Password:

MTU:  (1360-1492 bytes)

MPPE:

MPPC:

Figure 5-2-6-1-1 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.

### 5.2.5.2. L2TPv2

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

PPTP	L2TPv2	L2TPv3	Status
------	--------	--------	--------

Enable:

Server:

Username:

Password:

MTU:  (1360-1492 bytes)

Figure 5-2-6-2-1 LT2P

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.

### 5.2.5.3. 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 &amp; Apply"/>			

**Figure 5-2-6-3-1 L2TPv3**

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



### 5.2.5.4. GRE

Enable:

Local Host Address:  (0.0.0.0 is autoconfig)

Remote Host Address:  (10.10.10.10)

Tunnel Address:  (172.10.12.1)

Remote Tunnel Address:  (172.10.13.1)

NAT:

GRE Table

Local Host	Remote Host	Tunnel	Remote Tunnel	NAT Status	Status	Select
<input type="button" value="Delete Selected"/>		<input type="button" value="Delete All"/>		<input type="button" value="Reset"/>		

Figure 5-2-6-4-1 GRE

### 5.2.5.5. 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 5-2-6-5-1 VPN status

### 5.2.6 USB

The DIR-825M has a built-in USB port which can be connected to an external USB storage device for file sharing.

#### 5.2.6.1. Disk information

This page shows disk information. You can access the U disk using \\x.x.x.x on the computer.

Disk Information

Partition	Total Space	Available Space	had Used	Use per	System Type
-----------	-------------	-----------------	----------	---------	-------------

Figure 5-2-7-1-1 Disk information

### 5.2.6.2. DLNA

Enable DLNA:

Save & Apply

**Figure 5-2-7-2-1 DLNA**

### 5.2.6.3. FTP

Enable FTP Server:

Enable Remote Access:

Save & Apply

**Figure 5-2-7-3-1 FTP**

## 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):

Priority:  (0-7, 7 is highest priority)

Remark DSCP:  (0-63)

Comment:

Figure 5-3-1-1 QoS

Object	Description
<b>Automatic Uplink Speed</b>	Automatic uplink speed.
<b>Manual Uplink Speed (Kbps)</b>	Set the download speed of your Internet access
<b>Automatic Downlink Speed</b>	Automatic downlink speed.
<b>Manual Downlink Speed (Kbps)</b>	Set the upload speed of your Internet access

<b>Name</b>	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 5-3-2-1-1 Advanced**

Object	Description
<b>Enable DMZ</b>	Enable or disable DMZ function
<b>Enable UPnP</b>	Enable or disable UPnP function
<b>Enable IGMP Proxy</b>	Enable or disable IGMP Proxy function
<b>Enable Telnet Access on LAN</b>	Enable or disable Telnet by lan access
<b>Enable Telnet Access on WAN</b>	Enable or disable Telnet by wan access
<b>Enable Ping Access on WAN</b>	Enable or disable Enable Ping Access on WAN function
<b>Enable Web Server Access on WAN</b>	Enable or disable Enable Web Server Access on WAN function.
<b>Enable IPsec pass through on VPN connection</b>	Enable or disable IPSEC to pass through IPSEC communication data.

<b>Enable PPTP pass through on VPN connection</b>	Enable or disable PPTP to pass through PPTP communication data.
<b>Enable L2TP pass through on VPN connection</b>	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 5-3-2-2-1 DoS

### 5.3.2.3. IP Filtering

Enable IP Filtering:

Enable IPv4:

Enable IPv6:

Local IPv4 Address:

Local IPv6 Address:

Protocol:

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 5-3-2-3-1 IP Filtering

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

### 5.3.2.4. Port Filtering

Enable Port Filtering:   
 Enable IPv4:   
 Enable IPv6:   
 Port Range:  -   
 Protocol:    
 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 5-3-2-4-1 Port Filtering**

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

### 5.3.2.5. MAC Filtering

Mode:  Blacklist  Whitelist

MAC Address:  Connect client Lists

Comment:

Save & Apply
Reset

MAC Filter Table

MAC Address	Comment	Select
Delete Selected	Delete All	Reset

**Figure 5-3-2-5-1 MAC Filtering**

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

### 5.3.3 Port Forwarding



Enable Port Forwarding:

Local IP Address:

Local Port Start:

Local Port End:

Protocol: Both

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 5-3-3-1 Port Forwarding

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

url Filter Table

URL Address	Select

Figure 5-3-4-1 URL Filter

Object	Description
<b>Enable URL Filtering</b>	Enable or disable URL Filtering function.
<b>Deny URL address (black list)</b>	Blocking access to the URL list.
<b>Allow URL address (white list)</b>	Allowing access to the URL list.
<b>URL Address</b>	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	---	

Figure 5-3-5-1-1 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 5-3-5-2-1 Static Route**

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

### 5.3.6 Dynamic DNS

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

Enable DDNS:

Service Provider: DynDNS ▼

Domain Name: host.dyndns.org

User Name/Email: admin

Password/Key: .....

Save & Apply Reset

Figure 5-3-6-1 DDNS

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

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

Enable NTP client update:

Automatically Adjust Daylight Saving:

NTP server:  ntp1.dlink.com

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.

Figure 5-4-1-1-1 NTP Server

#### 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:  (Run time long, unit: days)

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

Enable:

Figure 5-4-1-2-1 Auto Reboot

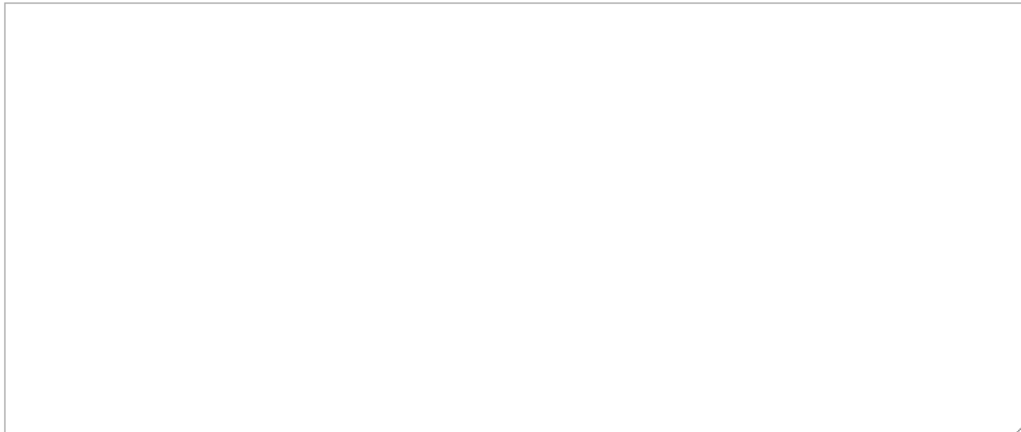
## 5.4.2 System Log

Enable Log:

Enable Remote Log:

Log Server IP Address:

**Apply Changes**



**Refresh**

**Clear**

**Figure 5-4-2-1 System Log**

Object	Description
Enable Log	Enable or disable Log function.
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

New Password:

Confirmed Password:

**Figure 5-4-3-1-1 Administrator**

Object	Description
<b>Password</b>	Enter the new password.
<b>Confirmed Password</b>	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.

Save Settings to File:

Load Settings from File:

Reset Settings to Default:

Reboot The Device:

**Figure 5-4-3-2-1 System**

Object	Description
<b>Save settings to file</b>	Save the setting to local PC
<b>Load settings from File</b>	Load the settings from local PC
<b>Reset Settings to Default</b>	Restore the device to factory default
<b>Reboot the device</b>	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.

User Statistics		Interface Statistics
IP Addr	Total Down	Total Up
192.168.0.2	0 Bytes	838 530 Bytes
192.168.0.100	0 Bytes	46 898 153 Bytes

**Figure 5-4-4-1-1 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	<i>Sent Bytes</i>	20210
	<i>Received Bytes</i>	2092383
Wireless 2 LAN	<i>Sent Bytes</i>	14820
	<i>Received Bytes</i>	8369
Ethernet LAN	<i>Sent Bytes</i>	6206255
	<i>Received Bytes</i>	597521
WAN	<i>Sent Bytes</i>	0
	<i>Received Bytes</i>	0

Refresh

**Figure 5-4-4-2-1 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**

Authentication:  Disabled  Enabled

User Name:

Password:

Path:

Port:

Save & Apply

Reset

**Figure 5-4-5-1 TR069**

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

## 5.4.6 SNMP

SNMP is a application for network management .

Enable SNMP :

Name :

Location :

Contanct :

Read/Write Community :

Read-Only Community :

Figure 5-4-6-1 SNMP

## 5.4.7 Upgrade

### 5.4.7.1. 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.

Firmware Version: DIR-825M\_V1.1.6

Select File:

Figure 5-4-7-1-1 Upgrade



**DO NOT** turns 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