



**DIR-615**

**Wireless N300 Router**

## BEFORE YOU BEGIN

### *Delivery Package*

- Router DIR-615
- Power adapter DC 9V/0.6A
- Ethernet cable
- “*Quick Installation Guide*” (brochure).

If any of the items are missing, please contact your reseller.

The “*User Manual*” document is available on D-Link website (see [www.dlink.com](http://www.dlink.com)).



**Using a power supply with a different voltage rating than the one included will cause damage and void the warranty for this product.**

## Default Settings

<b>Domain name of device</b>	<code>dlinkrouter.local.</code>
<b>IP address of device</b>	<code>192.168.0.1</code>
<b>Username (login)</b>	<code>admin</code>
<b>Password</b>	<code>admin</code>
<b>Name of wireless network (SSID)</b>	<code>DIR-615</code>
<b>Network key (PSK password)</b>	see WPS PIN on the barcode label on the bottom panel of the device



Router DIR-615 with default settings cannot connect to the Internet. To get started, please set your own password for access to the web-based interface and change the WLAN name (SSID); then, if needed, configure other settings recommended by your ISP.

## ***System Requirements and Equipment***

- An Android or iPhone mobile device (smartphone or tablet) or a computer with any operating system that supports a web browser.
- A web browser to access the web-based interface of the router:
  - Apple Safari 8 and later
  - Google Chrome 48 and later
  - Microsoft Internet Explorer 10 and later
  - Microsoft Edge 20.10240 and later
  - Mozilla Firefox 44 and later
  - Opera 35 and later.
- A NIC (Ethernet or Wi-Fi adapter) to connect to the router.
- An 802.11b, g, or n Wi-Fi adapter to create a wireless network.

## CONNECTING TO PC

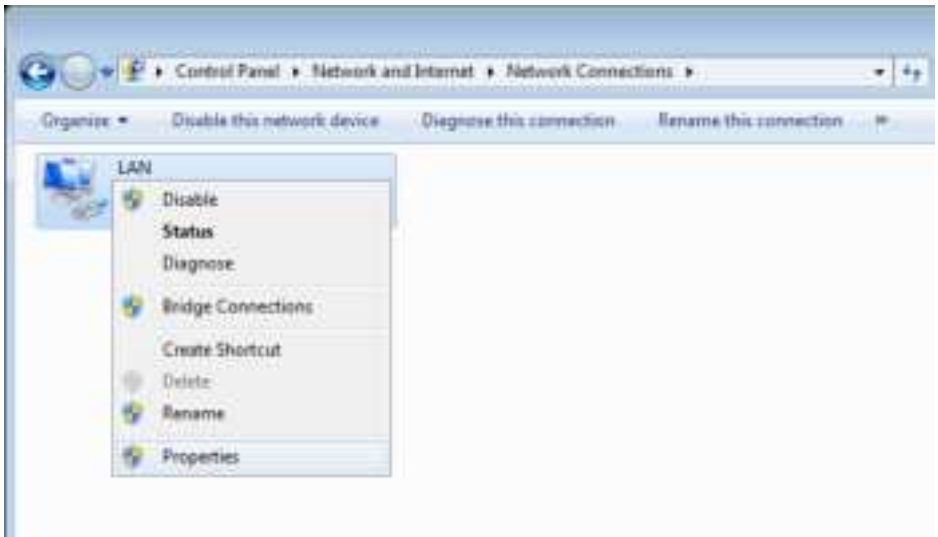
### *PC with Ethernet Adapter*

1. Connect an Ethernet cable between any of LAN ports located on the back panel of the router and the Ethernet port of your PC.
2. Connect the power cord to the power connector port on the back panel of the router, then plug the power adapter into an electrical outlet or power strip.

Then make sure that your PC is configured to obtain an IP address automatically (as DHCP client).

## **Obtaining IP Address Automatically (OS Windows 7)**

1. Click the **Start** button and proceed to the **Control Panel** window.
2. Select the **Network and Sharing Center** section. (If the Control Panel has the category view (the **Category** value is selected from the **View by** drop-down list in the top right corner of the window), choose the **View network status and tasks** line under the **Network and Internet** section.)
3. In the menu located on the left part of the window, select the **Change adapter settings** line.
4. In the opened window, right-click the relevant **Local Area Connection** icon and select the **Properties** line in the menu displayed.



5. In the **Local Area Connection Properties** window, on the **Networking** tab, select the **Internet Protocol Version 4 (TCP/IPv4)** line. Click the **Properties** button.

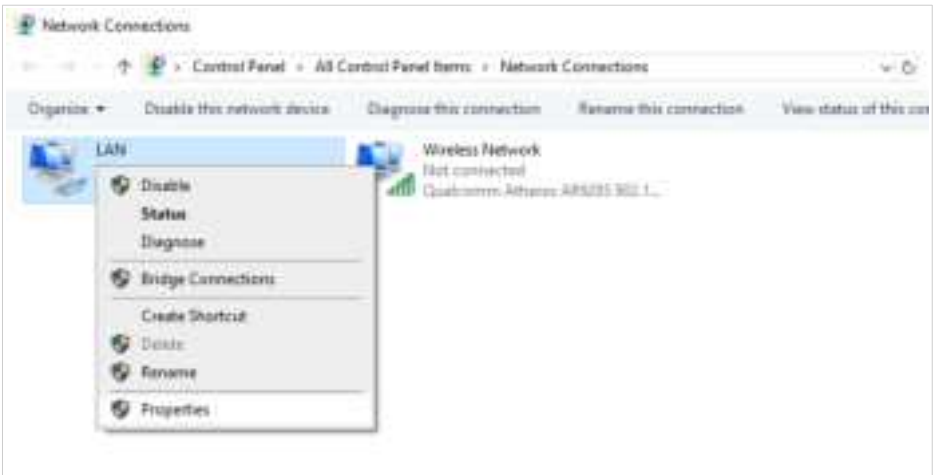
6. Make sure that the **Obtain an IP address automatically** and **Obtain DNS server address automatically** choices of the radio buttons are selected. Click the **OK** button.



7. Click the **OK** button in the connection properties window.

## Obtaining IP Address Automatically (OS Windows 10)

1. Click the **Start** button and proceed to the **Settings** window.
2. Select the **Network & Internet** section.
3. In the **Change your network settings** section, select the **Change adapter options** line.
4. In the opened window, right-click the relevant **Local Area Connection** icon and select the **Properties** line in the menu displayed.



5. In the **Local Area Connection Properties** window, on the **Networking** tab, select the **Internet Protocol Version 4 (TCP/IPv4)** line. Click the **Properties** button.



6. Make sure that the **Obtain an IP address automatically** and **Obtain DNS server address automatically** choices of the radio buttons are selected. Click the **OK** button.



7. Click the **Close** button in the connection properties window.

## ***PC with Wi-Fi Adapter***

1. Connect the power cord to the power connector port on the back panel of the router, then plug the power adapter into an electrical outlet or power strip.
2. Make sure that the Wi-Fi adapter of your PC is on. As a rule, modern notebooks with built-in wireless NICs are equipped with a button or switch that turns on/off the wireless adapter (refer to your PC documents). If your PC is equipped with a pluggable wireless NIC, install the software provided with your Wi-Fi adapter.

Then make sure that your Wi-Fi adapter is configured to obtain an IP address automatically (as DHCP client).

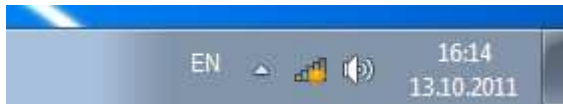
## ***Obtaining IP Address Automatically and Connecting to Wireless Network (OS Windows 7)***

1. Click the **Start** button and proceed to the **Control Panel** window.
2. Select the **Network and Sharing Center** section. (If the Control Panel has the category view (the **Category** value is selected from the **View by** drop-down list in the top right corner of the window), choose the **View network status and tasks** line under the **Network and Internet** section.)
3. In the menu located on the left part of the window, select the **Change adapter settings** line.
4. In the opened window, right-click the relevant **Wireless Network Connection** icon. Make sure that your Wi-Fi adapter is on, then select the **Properties** line in the menu displayed.
5. In the **Wireless Network Connection Properties** window, on the **Networking** tab, select the **Internet Protocol Version 4 (TCP/IPv4)** line. Click the **Properties** button.

6. Make sure that the **Obtain an IP address automatically** and **Obtain DNS server address automatically** choices of the radio buttons are selected. Click the **OK** button.



7. Click the **OK** button in the connection properties window.
8. To open the list of available wireless networks, select the icon of the wireless network connection and click the **Connect To** button or left-click the network icon in the notification area located on the right side of the taskbar.



9. In the opened window, in the list of available wireless networks, select the wireless network **DIR-615** and click the **Connect** button.



10. In the opened window, enter the network key (see WPS PIN on the barcode label on the bottom panel of the device) in the **Security key** field and click the **OK** button.
11. Wait for about 20-30 seconds. After the connection is established, the network icon will be displayed as the signal level scale.



If you perform initial configuration of the router via Wi-Fi connection, note that immediately after changing the wireless default settings of the router you will need to reconfigure the wireless connection using the newly specified settings.

## ***Obtaining IP Address Automatically and Connecting to Wireless Network (OS Windows 10)***

1. Click the **Start** button and proceed to the **Settings** window.
2. Select the **Network & Internet** section.
3. In the **Change your network settings** section, select the **Change adapter options** line.
4. In the opened window, right-click the relevant **Wireless Network Connection** icon. Make sure that your Wi-Fi adapter is on, then select the **Properties** line in the menu displayed.
5. In the **Wireless Network Connection Properties** window, on the **Networking** tab, select the **Internet Protocol Version 4 (TCP/IPv4)** line. Click the **Properties** button.
6. Make sure that the **Obtain an IP address automatically** and **Obtain DNS server address automatically** choices of the radio buttons are selected. Click the **OK** button.



7. Click the **Close** button in the connection properties window.

8. To open the list of available wireless networks, select the icon of the wireless network connection and click the **Connect To** button or left-click the network icon in the notification area located on the right side of the taskbar.



9. In the opened window, in the list of available wireless networks, select the wireless network **DIR-615** and click the **Connect** button.



10. In the opened window, enter the network key (see WPS PIN on the barcode label on the bottom panel of the device) in the **Security key** field and click the **Next** button.
11. Allow or forbid your PC to be discoverable by other devices on this network (**Yes / No**).



12. Wait for about 20-30 seconds. After the connection is established, the network icon will be displayed as a dot with curved lines indicating the signal level.



If you perform initial configuration of the router via Wi-Fi connection, note that immediately after changing the wireless default settings of the router you will need to reconfigure the wireless connection using the newly specified settings.



## CONFIGURING ROUTER

### Connecting to Web-based Interface

Start a web browser. In the address bar of the web browser, enter the domain name of the router (by default, **dlinkrouter.local**) with a dot at the end and press the **Enter** key. Also you can enter the IP address of the device (by default, **192.168.0.1**).

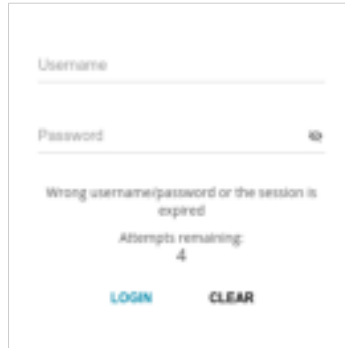


If the error “*The page cannot be displayed*” (or “*Unable to display the page*”/“*Could not connect to remote server*”) occurs upon connecting to the web-based interface of the router, make sure that you have properly connected the router to your computer.

If the device has not been configured previously or the default settings have been restored, after access to the web-based interface the Setup Wizard opens (see the **Setup Wizard** section, page 20).



If you configured the device previously, after access to the web-based interface the login page opens. Enter the username (**admin**) in the **Username** field and the password you specified in the **Password** field, then click the **LOGIN** button.



The screenshot shows a web-based login interface. At the top, there are two input fields: 'Username' and 'Password'. Below these fields, a message reads 'Wrong username/password or the session is expired'. Underneath this message, it says 'Attempts remaining: 4'. At the bottom of the form, there are two buttons: 'LOGIN' and 'CLEAR'.

If you enter a wrong password several times, the web-based interface will be blocked for a while. Please wait for one minute and reenter the password you specified.

The **Home** page displays the current status of the router in the form of an interactive diagram. You can click each icon to display information about each part of the network at the bottom of the screen.



The web-based interface of the router is multilingual. You can select the needed language upon the initial configuration of the web-based interface of the router or in the **Management / Administration** section of the menu.

Other settings of the router are available in the menu at the top of the page. Go to the relevant section and select the needed page or run the wizard in the **Settings / Setup Wizard** section.

## Setup Wizard

To start the Setup Wizard, go to the **Settings / Setup Wizard** section.



Click the **OK** button and wait until the factory default settings are restored. Then click the **START** button.

If the device has not been configured previously or the default settings have been restored, the Setup Wizard starts automatically upon access to the web-based interface or upon opening a web site on the Internet.



1. Click **YES** in order to leave the current language of the web-based interface or click **NO** to select another language.



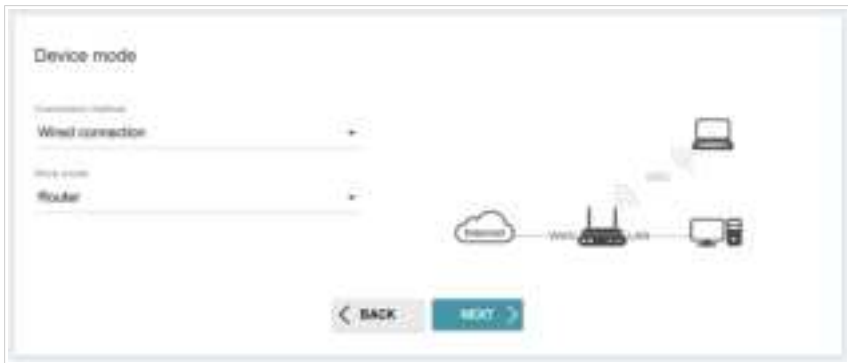
2. On the next page, click the **CONTINUE** button.

## Selecting Operation Mode

Select the needed operation mode and click the **NEXT** button.

### *Router*

In order to connect your device to a wired ISP, on the **Device mode** page, from the **Connection method** list, select the **Wired connection** value. Then from the **Work mode** list select the **Router** value. In this mode you can configure a WAN connection, set your own settings for the wireless network, configure LAN ports to connect an STB or VoIP phone, and set your own password for access to the web-based interface of the device.



In order to connect your device to a wireless ISP (WISP), on the **Device mode** page, from the **Connection method** list, select the **Wi-Fi** value. Then from the **Work mode** list select the **WISP Repeater** value. In this mode you can connect your device to another access point, configure a WAN connection, set your own settings for the wireless network, and set your own password for access to the web-based interface of the device.

## ***Access Point or Repeater***

In order to connect your device to a wired router for adding a wireless network to the existing local network, on the **Device mode** page, from the **Connection method** list, select the **Wired connection** value. Then from the **Work mode** list select the **Access point** value. In this mode you can change the LAN IP address, set your own settings for the wireless network, and set your own password for access to the web-based interface of the device.

In order to connect your device to a wireless router for extending the range of the existing wireless network, on the **Device mode** page, from the **Connection method** list, select the **Wi-Fi** value. Then from the **Work mode** list select the **Repeater** value. In this mode you can change the LAN IP address, connect your device to another access point, set your own settings for the wireless network, and set your own password for access to the web-based interface of the device.

In order to let wired PCs connected to your device access the network of a wireless router, on the **Device mode** page, from the **Connection method** list, select the **Wi-Fi** value. Then from the **Work mode** list select the **Client** value. In this mode you can change the LAN IP address, connect your device to another access point, and set your own password for access to the web-based interface of the device.

## Changing LAN IPv4 Address

This configuration step is available for the **Access point**, **Repeater**, and **Client** modes.

1. Select the **Automatic obtainment of IPv4 address** to let DIR-615 automatically obtain the LAN IPv4 address.
2. In the **Hostname** field, you should specify a domain name of the router using which you can access the web-based interface after finishing the Wizard. Enter a new domain name of the router ending with **.local** or leave the value suggested by the router.

**!** In order to access the web-based interface using the domain name, in the address bar of the web browser, enter the name of the router with a dot at the end.


If you want to manually assign the LAN IPv4 address for DIR-615, do not select the **Automatic obtainment of IPv4 address** checkbox and fill in the **IP address**, **Subnet mask**, **Hostname** fields and, if needed, the **Gateway IP address** field. Make sure that the assigned address does not coincide with the LAN IPv4 address of the router to which your device connects.


3. Click the **NEXT** button.

## Wi-Fi Client

This configuration step is available for the **WISP Repeater**, **Repeater**, and **Client** modes.

1. On the **Wi-Fi Client** page, click the **WIRELESS NETWORKS** button and select the network to which you want to connect in the opened window. When you select a network, the **Network name (SSID)** and **BSSID** fields are filled in automatically.

If you cannot find the needed network in the list, click the **UPDATE LIST** icon (  ).

2. If a password is needed to connect to the selected network, fill in the relevant field. Click the **Show** icon (  ) to display the entered password.



If you connect to a hidden network, enter the network name in the **Network name (SSID)** field. Then select a needed value from the **Network authentication** list and then, if needed, enter the password in the relevant field.

3. Click the **NEXT** button.



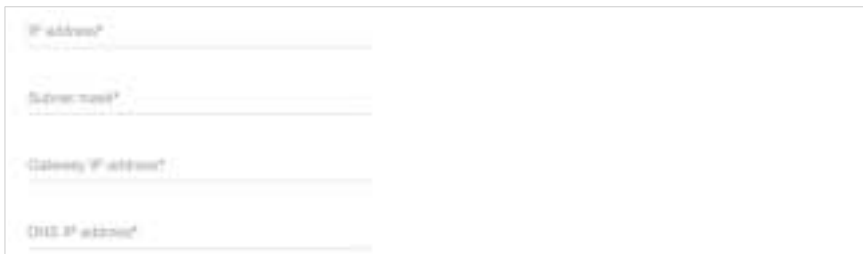
## Configuring WAN Connection

This configuration step is available for the **Router** and **WISP Repeater** modes.

**!** You should configure your WAN connection in accordance with data provided by your Internet service provider (ISP). Make sure that you have obtained all necessary information prior to configuring your connection. Otherwise contact your ISP.

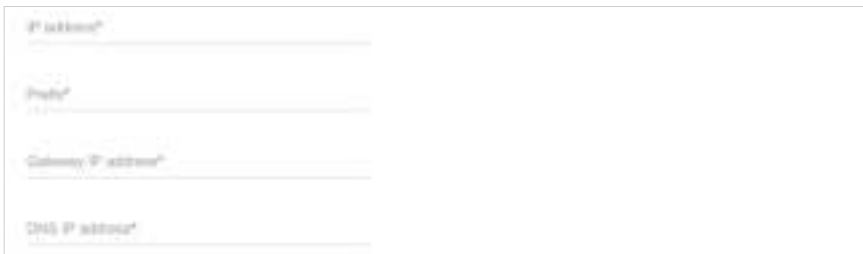
1. On the **Internet connection type** page, click the **SCAN** button (available for the **Router** mode only) to automatically specify the connection type used by your ISP or manually select the needed value from the **Connection type** list.

**Static IPv4:** Fill in the following fields: **IP address**, **Subnet mask**, **Gateway IP address**, and **DNS IP address**.



A screenshot of a web form for Static IPv4 configuration. It contains four input fields with labels: 'IP address\*', 'Subnet mask\*', 'Gateway IP address\*', and 'DNS IP address\*'. Each field has a small asterisk indicating it is required.

**Static IPv6:** Fill in the following fields: **IP address**, **Prefix**, **Gateway IP address**, and **DNS IP address**.



A screenshot of a web form for Static IPv6 configuration. It contains four input fields with labels: 'IP address\*', 'Prefix\*', 'Gateway IP address\*', and 'DNS IP address\*'. Each field has a small asterisk indicating it is required.

**PPPoE, IPv6 PPPoE, PPPoE Dual Stack, PPPoE + Dynamic IP (PPPoE Dual Access):** Enter authorization data provided by your ISP (the username (login) in the **Username** field and the password in the **Password** field). Click the **Show** icon (🔍) to display the entered password. If authorization is not required, select the **Without authorization** checkbox.

☐ Without authorization

🔍

**PPPoE + Static IP (PPPoE Dual Access):** Enter authorization data provided by your ISP (the username (login) in the **Username** field and the password in the **Password** field). Click the **Show** icon (🔍) to display the entered password. If authorization is not required, select the **Without authorization** checkbox. Also fill in the following fields: **IP address**, **Subnet mask**, **Gateway IP address**, and **DNS IP address**.

☐ Without authorization

🔍

**PPTP + Dynamic IP or L2TP + Dynamic IP:** Enter authorization data provided by your ISP (the username (login) in the **Username** field and the password in the **Password** field). Click the **Show** icon (🔍) to display the entered password. If authorization is not required, select the **Without authorization** checkbox. In the **VPN server address** field, enter the IP or URL address of the PPTP or L2TP authentication server.



A screenshot of a configuration form for PPTP or L2TP with Dynamic IP. At the top, there is a checkbox labeled "Without authorization". Below it are three input fields: "Username\*", "Password\*" (with a "Show" icon to its right), and "VPN server address\*".

**PPTP + Static IP or L2TP + Static IP:** Enter authorization data provided by your ISP (the username (login) in the **Username** field and the password in the **Password** field). Click the **Show** icon (🔍) to display the entered password. If authorization is not required, select the **Without authorization** checkbox. In the **VPN server address** field, enter the IP or URL address of the PPTP or L2TP authentication server. Also fill in the following fields: **IP address**, **Subnet mask**, **Gateway IP address**, and **DNS IP address**.



A screenshot of a configuration form for PPTP or L2TP with Static IP. It includes the same fields as the previous form: "Without authorization" checkbox, "Username\*", "Password\*" (with "Show" icon), and "VPN server address\*". Below these are four additional input fields: "IP address\*", "Subnet mask\*", "Gateway IP address\*", and "DNS IP address\*".

2. If your ISP uses MAC address binding, select the **Clone MAC address of your device** checkbox.
3. If the Internet access is provided via a VLAN channel, select the **Use VLAN** checkbox and fill in the **VLAN ID** field.



The screenshot shows a configuration window with the following elements:

- A checkbox labeled "Clone MAC address of your device" which is currently unchecked.
- A help icon (i) with a tooltip that reads: "In some ISP's networks, it is required to register a certain MAC address in order to get access to the Internet".
- A checkbox labeled "Use VLAN" which is currently checked.
- A help icon (i) with a tooltip that reads: "Select the option if the Internet access is provided via a VLAN channel".
- A text input field labeled "VLAN ID" with a light blue border and a small blue arrow icon on the right.

4. Click the **NEXT** button.

## Configuring Wireless Network

This configuration step is available for the **Router**, **Access point**, **WISP Repeater**, and **Repeater** modes.

1. On the **Wireless Network 2.4 GHz** page, in the **Network name** field, specify your own name for the wireless network or leave the value suggested by the router.
2. In the **Password** field, specify your own password for access to the wireless network or leave the value suggested by the router (WPS PIN of the device, see the barcode label).
3. If the router is used as a Wi-Fi client, you can specify the same parameters of the wireless network as specified for the network to which you are connecting. To do this, click the **USE** button (available for the **WISP Repeater** and **Repeater** modes only).
4. You can restore the parameters of the wireless network specified before resetting to factory defaults. To do this, click the **RESTORE** button.

The screenshot shows the 'Wireless Network 2.4 GHz' configuration page. It includes several options and fields:

- ☒ **Enable**
- ☒ **Broadcast wireless network 2.4 GHz**
- ☐ **Disabling broadcast does not influence the ability to connect to another Wi-Fi network as a client**
- Network name:** DIR-XXXX
- ☐ **Open network**
- Password:** A field with masked characters and a strength indicator.
- ☐ **Password should be between 8 and 32 ASCII characters**
- RESTORE** button: This can restore default name and security that was set before restoring factory settings.

5. If you want to create an additional wireless network isolated from your LAN, select the **Enable guest network** checkbox (available for the **Router** and **WISP Repeater** modes only).



**Enable guest network**

Guest Wi-Fi network allows connection to your device and getting access to the Internet. Upon that computers connected to this wireless network will be isolated from the resources of your main local area network. This helps to secure your LAN while you provide access to the Internet for temporary users.

Network name\*

DIR-XXX\_Guest

☒ Open network

New password\*

☒ Enable shaping

Shaping (Mbps)\*

6. In the **Network name** field, specify your own name for the guest wireless network or leave the value suggested by the router.
7. If you want to create a password for access to the guest wireless network, deselect the **Open network** checkbox and fill in the **Password** field.
8. If you want to limit the bandwidth of the guest wireless network, select the **Enable shaping** checkbox and fill in the **Shaping** field.
9. Click the **NEXT** button.

## Configuring LAN Ports for IPTV/VoIP

This configuration step is available for the **Router** mode.

1. On the **IPTV** page, select the **Is an STB connected to the device** checkbox.



The screenshot shows the 'IPTV' configuration page. At the top, the title 'IPTV' is displayed. Below it, there are two checkboxes: 'Is an STB connected to the device?' which is checked, and 'Use VLAN ID' which is also checked. A help icon (i) is next to the first checkbox with the text: 'If your ISP provides IPTV service, you can connect an STB directly to the router without additional equipment'. Below the checkboxes is a text input field labeled 'VLAN ID\*' with a red asterisk indicating it is required. Another help icon (i) is below the field with the text: 'Information about the VLAN ID can be found in the contract.' At the bottom of the form, there is a diagram of a router with five LAN ports labeled LAN1 through LAN4. LAN1 has a person icon, and LAN2 has a TV icon. Below the diagram are two buttons: a grey 'BACK' button with a left arrow and a blue 'NEXT' button with a right arrow.

2. Select a free LAN port for connecting your set-top box.
3. If the IPTV service is provided via a VLAN channel, select the **Use VLAN ID** checkbox and fill in the **VLAN ID** field.
4. Click the **NEXT** button.

- On the **VoIP** page, select the **Is an IP phone connected to the device** checkbox.



The screenshot shows the 'VoIP' configuration page. At the top, the title 'VoIP' is displayed. Below it, there are three checkboxes: 'Is an IP phone connected to the device?' (checked), 'If your ISP provides VoIP service, you can connect an IP phone directly to the router without additional equipment' (unchecked), and 'Use VLAN ID' (checked). Below the checkboxes is a text input field labeled 'VLAN ID' with a red asterisk indicating it is required. Below the input field is a note: 'Information about the VLAN ID can be found in the contract.' At the bottom of the page is a diagram of a router with five ports labeled WAN, LAN1, LAN2, LAN3, and LAN4. Below the diagram are two buttons: 'BACK' and 'NEXT'.

- Select a free LAN port for connecting your IP phone.
- If the VoIP service is provided via a VLAN channel, select the **Use VLAN ID** checkbox and fill in the **VLAN ID** field.
- Click the **NEXT** button.



## Changing Web-based Interface Password

On this page you should change the default administrator password. To do this, enter a new password in the **User's interface password** and **Password confirmation** fields. You may set any password except **admin**. Use digits, Latin letters (uppercase and/or lowercase), and other characters available in the US keyboard layout.<sup>1</sup>



Remember or write down the new password for the administrator account. In case of losing the new password, you can access the settings of the router only after restoring the factory default settings via the hardware **WPS/RESET** button. This procedure wipes out all settings that you have configured for your router.

Click the **NEXT** button.

On the next page, check all the settings you have just specified.

Also you can save a text file with parameters set by the Wizard to your PC. To do this, click the **SAVE CONFIGURATION FILE** button and follow the dialog box appeared.

To finish the Wizard, click the **APPLY** button. The router will apply settings, reboot, if needed, and check the Internet connection if the Wizard has configured a WAN connection.

<sup>1</sup> 0-9, A-Z, a-z, space, !"#%&'()\*+,-./:;<=>?@[\\]^\_`{|}~.

## Configuring Local Area Network

1. Go to the **Settings / Network** page.
2. If needed, change the IPv4 address of the router's LAN interface and the mask of the local subnet. To do this, click the **IPv4** tab and specify needed values in the **IP address** and **Mask** fields in the **Local IP Address** section.



The screenshot shows the 'Local IP Address' configuration section. It contains three input fields: 'IP address' with the value '192.168.0.1', 'Mask' with the value '255.255.255.0', and 'DNS server' with the value '(Linkmaster Local)'. Below these fields is a help icon and a note: 'Specify a domain name ending with .local. In order to access the web-based interface using the domain name, enter this name with a dot and slash at the end in the address bar of the web browser (for example, <code>http://www.local</code>)'.

3. If needed, specify your own IPv6 address of the router's LAN interface. To do this, click the **IPv6** tab and select the **Static** value from the **Mode of local IPv6 address assignment** drop-down list in the **Local IPv6 Address** section. Then specify needed values in the **IPv6 address** and **Prefix** fields.



The screenshot shows the 'Local IPv6 Address' configuration section. It contains three input fields: 'Mode of local IPv6 address assignment' with a dropdown menu showing 'Static', 'IPv6 address' with the value 'fd01::1', and 'Prefix' with the value '64'.

4. **IPv4 address assignment.** By default, the built-in DHCP server of the router assigns IPv4 addresses to the devices of the LAN. If you want to manually assign IPv4 addresses, disable the DHCP server (click the **IPv4** tab and select the **Disable** value from the **Mode of dynamic IP address assignment** drop-down list in the **Dynamic IP Addresses** section).

**Dynamic IP Addresses**

Mode of dynamic IP address assignment

**DHCP server**

Start IP

192.168.0.100

End IP

192.168.0.200

Lease time (in minutes)

1440

☒ **DNS relay**

Assign the LAN IP address of the device as the DNS server for untrusted clients.

5. **IPv6 address assignment.** By default, the devices of the LAN automatically assign IPv6 addresses to themselves (the **Stateless** value is selected from the **Mode of dynamic IPv6 address assignment** drop-down list in the **Dynamic IPv6 Addresses** section on the **IPv6** tab). If the devices of the LAN do not support IPv6 address autoconfiguration, use the built-in DHCPv6 server of the router (select the **Stateful** value from the **Mode of dynamic IPv6 address assignment** drop-down list). If you want to manually assign IPv6 addresses to devices of the LAN, select the **Disable** value from the **Mode of dynamic IPv6 address assignment** drop-down list.



The screenshot shows the 'Dynamic IPv6 Addresses' configuration page. It features a dropdown menu for 'Mode of dynamic IPv6 address assignment' with 'Stateful' selected. Below this are input fields for 'Start IP' (1001:2) and 'End IP' (1001:FE:FE:FE:FE:FE). There is a checkbox for 'Enable IPv6 DHCP' which is checked. At the bottom, there is a 'DNS relay' toggle switch and a note: 'Assign the LAN IP address of the router to the DNS server for consultation queries.'

6. After specifying the needed parameters on the **Settings / Network** page, click the **APPLY** button.

## SPECIFICATIONS\*

Hardware	
<b>Processor</b>	<ul style="list-style-type: none"> <li>• RTL8196E (400MHz)</li> </ul>
<b>RAM</b>	<ul style="list-style-type: none"> <li>• 32MB, DDR SDRAM</li> </ul>
<b>Flash</b>	<ul style="list-style-type: none"> <li>• 4MB, SPI</li> </ul>
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>• 10/100BASE-TX WAN port</li> <li>• 4 10/100BASE-TX LAN ports</li> </ul>
<b>LEDs</b>	<ul style="list-style-type: none"> <li>• POWER</li> <li>• WLAN / WPS</li> <li>• INTERNET</li> </ul>
<b>Buttons</b>	<ul style="list-style-type: none"> <li>• WPS/RESET button to set up wireless connection and restore factory default settings</li> </ul>
<b>Antenna</b>	<ul style="list-style-type: none"> <li>• Two external non-detachable antennas (5dBi gain)</li> </ul>
<b>MIMO</b>	<ul style="list-style-type: none"> <li>• 2 x 2</li> </ul>
<b>Power connector</b>	<ul style="list-style-type: none"> <li>• Power input connector (DC)</li> </ul>

Software	
<b>WAN connection types</b>	<ul style="list-style-type: none"> <li>• PPPoE</li> <li>• IPv6 PPPoE</li> <li>• PPPoE Dual Stack</li> <li>• Static IPv4 / Dynamic IPv4</li> <li>• Static IPv6 / Dynamic IPv6</li> <li>• PPPoE + Static IP (PPPoE Dual Access)</li> <li>• PPPoE + Dynamic IP (PPPoE Dual Access)</li> <li>• PPTP/L2TP + Static IP</li> <li>• PPTP/L2TP + Dynamic IP</li> </ul>

\* The device features are subject to change without notice. For the latest versions of the firmware and relevant documentation, visit [www.dlink.com](http://www.dlink.com).

Software	
Network functions	<ul style="list-style-type: none"><li>• DHCP server/relay</li><li>• Advanced configuration of built-in DHCP server</li><li>• Stateful/Stateless mode for IPv6 address assignment, IPv6 prefix delegation</li><li>• Automatic obtainment of LAN IP address (for access point/repeater/client modes)</li><li>• DNS relay</li><li>• Dynamic DNS</li><li>• Static IPv4/IPv6 routing</li><li>• IGMP Proxy</li><li>• Support of UPnP IGD</li><li>• Support of VLAN</li><li>• WAN ping respond</li><li>• Support of SIP ALG</li><li>• Support of RTSP</li><li>• WAN failover</li><li>• Autonegotiation of speed, duplex mode, and flow control / Manual speed and duplex mode setup for each Ethernet port</li><li>• Setup of maximum TX rate for each port of the router</li></ul>
Firewall functions	<ul style="list-style-type: none"><li>• Network Address Translation (NAT)</li><li>• Stateful Packet Inspection (SPI)</li><li>• IPv4/IPv6 filter</li><li>• MAC filter</li><li>• URL filter</li><li>• DMZ</li><li>• Prevention of ARP and DDoS attacks</li><li>• Virtual servers</li><li>• Built-in Yandex.DNS web content filtering service</li></ul>
VPN	<ul style="list-style-type: none"><li>• IPsec/PPTP/L2TP/PPPoE pass-through</li></ul>

Software	
<b>Management and monitoring</b>	<ul style="list-style-type: none"> <li>• Local and remote access to settings through TELNET/WEB (HTTP/HTTPS)</li> <li>• Multilingual web-based interface for configuration and management</li> <li>• Support of D-Link Assistant application for Android and iPhone smartphones</li> <li>• Notification on connection problems and auto redirect to settings</li> <li>• Firmware update via web-based interface</li> <li>• Automatic notification on new firmware version</li> <li>• Saving/restoring configuration to/from file</li> <li>• Support of logging to remote host</li> <li>• Automatic synchronization of system time with NTP server and manual time/date setup</li> <li>• Ping utility</li> <li>• Traceroute utility</li> <li>• TR-069 client</li> <li>• Automatic reboot on schedule</li> </ul>

Wireless Module Parameters	
<b>Standards</b>	<ul style="list-style-type: none"> <li>• IEEE 802.11b/g/n</li> </ul>
<b>Frequency range</b>  <i>The frequency range depends upon the radio frequency regulations applied in your country</i>	<ul style="list-style-type: none"> <li>• 2400 ~ 2483.5MHz</li> </ul>
<b>Wireless connection security</b>	<ul style="list-style-type: none"> <li>• WEP</li> <li>• WPA/WPA2 (Personal/Enterprise)</li> <li>• MAC filter</li> <li>• WPS (PBC)</li> </ul>

Wireless Module Parameters	
<b>Advanced functions</b>	<ul style="list-style-type: none"> <li>• Support of client mode</li> <li>• WMM (Wi-Fi QoS)</li> <li>• Information on connected Wi-Fi clients</li> <li>• Advanced settings</li> <li>• Guest Wi-Fi / support of MBSSID</li> <li>• Rate limitation for wireless network/separate MAC addresses</li> <li>• Periodic scan of channels, automatic switch to least loaded channel</li> <li>• Autonegotiation of channel bandwidth in accordance with environment conditions (20/40 Coexistence)</li> </ul>
<b>Wireless connection rate</b>	<ul style="list-style-type: none"> <li>• IEEE 802.11b: 1, 2, 5.5, and 11Mbps</li> <li>• IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, and 54Mbps</li> <li>• IEEE 802.11n: from 6.5 to 300Mbps (from MCS0 to MCS15)</li> </ul>
<b>Transmitter output power</b>  <i>The maximum value of the transmitter output power depends upon the radio frequency regulations applied in your country</i>	<ul style="list-style-type: none"> <li>• 802.11b (typical at room temperature 25 °C) 15dBm at 1, 2, 5.5, 11Mbps</li> <li>• 802.11g (typical at room temperature 25 °C) 15dBm at 6, 9, 12, 18, 24, 36, 48, 54Mbps</li> <li>• 802.11n (typical at room temperature 25 °C) HT20/HT40 15dBm at MCS0/1/2/3/4/5/6/7</li> </ul>
<b>Receiver sensitivity</b>	<ul style="list-style-type: none"> <li>• 802.11b (typical at PER = 8% at room temperature 25 °C) -96dBm at 1Mbps</li> <li>• 802.11g (typical at PER = 10% at room temperature 25 °C) -76.5dBm at 54Mbps</li> <li>• 802.11n (typical at PER = 10% at room temperature 25 °C) HT20 -74dBm at MCS7/15 HT40 -71.5dBm at MCS7/15</li> </ul>
<b>Modulation schemes</b>	<ul style="list-style-type: none"> <li>• 802.11b: DQPSK, DBPSK, and CCK</li> <li>• 802.11g: BPSK, QPSK, 16QAM, 64QAM, OFDM</li> <li>• 802.11n: BPSK, QPSK, 16QAM, 64QAM with OFDM</li> </ul>



Physical Parameters

Dimensions (L x W x H)	· 131 x 130 x 34 mm (5.2 x 5.1 x 1.3 in)
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Operating Environment

Power	· Output: 9V DC, 0.6A
Temperature	· Operating: from 0 to 40 °C · Storage: from -20 to 65 °C
Humidity	· Operating: from 10% to 90% (non-condensing) · Storage: from 5% to 90% (non-condensing)

## SAFETY RULES AND CONDITIONS

Please carefully read this section before installation and connection of the device. Make sure that the power adapter and cables are not damaged. The device should be used only as intended in accordance with the documents.

The device is intended for use in dry, clean, dust-free, and well ventilated areas with normal humidity away from strong heat sources. Do not use the device outdoors or in the areas with high humidity. Do not place foreign objects on the device. Do not obstruct the ventilation openings of the device. The environmental temperature near the device and the temperature inside the device's cover should be within the range from 0 °C to +40 °C.

Only use the power adapter supplied with the device. Do not plug in the adapter, if its case or cable are damaged. Plug the adapter only into working electrical outlets with parameters indicated on the adapter.

Do not open the cover of the device! Unplug the device before dusting and cleaning. Use a damp cloth to clean the device. Do not use liquid/aerosol cleaners or magnetic/static cleaning devices. Prevent moisture getting into the device or the power adapter.

The service life of the device is 2 years.

## TECHNICAL SUPPORT

You can find software updates and user documentation on our website. D-Link provides its customers with free support within the product's warranty period. Customers can contact the technical support group by phone or by e-mail/Internet.

**FOR TELEPHONE NUMBERS AND ADDRESSES OF D-LINK  
OFFICES WORLDWIDE VISIT**

[www.dlink.com](http://www.dlink.com)