



DIR-X1860 AX1800 Wi-Fi 6 Gigabit Router

BEFORE YOU BEGIN

Delivery Package

- Router DIR-X1860
- Power adapter DC 12V/1A
- Ethernet cable
- "Quick Installation Guide" (brochure).

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

The "*User Manual*" and "*Quick Installation Guide*" documents are available on D-Link website (see <u>www.dlink.ru</u>).

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

Default Settings

Domain name	of device	dlinkrouter.local.
IP address	of device	192.168.0.1
Userna	admin	
Passwo		admin
Name of wireless network	2.4GHz	DIR-X1860
(SSID)	5GHz	DIR-X1860-5G
Network key (PSK p	assword)	see WPS PIN on the barcode label on the bottom panel of the device

Clients connected to the router with default settings do not have access 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 mobile device (smartphone or tablet) or a computer with any operating system that supports a web browser.
- A PC web browser to access the web-based interface:
 - 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 802.11a, b, g, n, ac, or ax Wi-Fi adapter to create a wireless network.

CONNECTING TO PC OR MOBILE DEVICE

Connecting to Mobile Device with D-Link Assistant Application

- 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. Turn on the router by pressing the **POWER** button on its back panel.
- 3. Make sure that the Wi-Fi connection on your mobile device is on. To switch it on, go to the mobile device settings.
- In the list of available wireless networks on your mobile device, select the wireless network DIR-X1860 (for operating in the 2.4GHz band) or DIR-X1860-5G (for operating in the 5GHz band).
- 5. In the opened window, enter the network key (see WPS PIN on the barcode label on the bottom panel of the device) as the password and connect to the wireless network of DIR-X1860.
- 6. Launch D-Link Assistant application on your mobile device. The application is available for Android smartphones in Google Play.



D-Link Assistant for Android

- 7. Make sure that the application correctly identified the router to which you connect.
- 8. In the application interface, select the **Advanced Settings** menu option to go through the Initial Configuration Wizard or finish the Wizard earlier and go the configuration menu.

As 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.

If you changed the administrator password via the web-based interface, when DIR-X1860 is accessed with the application the next time, click the **ENTER LOGIN/PASSWORD** button. Enter the username (admin) and the password you specified.

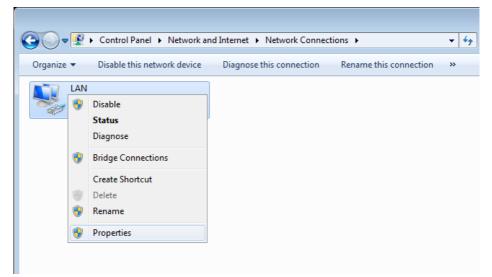
PC with Ethernet Adapter

- 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.
- 3. Turn on the router by pressing the **POWER** button on its back panel.

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.



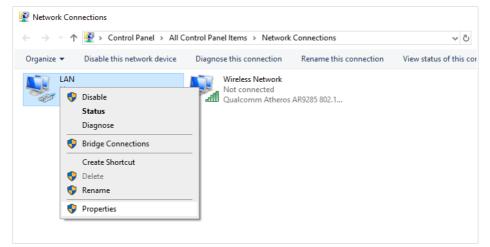
 In the Local Area Connection Properties window, on the Networking tab, select the Internet Protocol Version 4 (TCP/IPv4) line. Click the Properties button. 6. Make sure that the **Obtain an IP address automatically** and **Obtain DNS server address automatically** choices of the radio buttons are selected. Click the **OK** button.

Internet P	rotocol Version 4 (TCP/IPv4)	Propertie	s		? 💌
General	Alternate Configuration				
this cap	n get IP settings assigned auton bability. Otherwise, you need to appropriate IP settings.				
<u>o</u>	btain an IP address automatical	y.			
- © Uş	e the following IP address:				
<u>I</u> P ad	ddress:				
Subr	net mask:				
Defa	ult gateway:				
() ()	btain DNS server address autor	atically			
- © U:	e the following DNS server add	resses: —			
Pref	erred DNS server:				
Alter	nate DNS server:				
V	alidate settings upon exit			Ad <u>v</u> ar	nced
			OK		Cancel

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.

Internet Protocol Version 4 (TCP/IP	v4) Properties	×
General Alternate Configuration		
	utomatically if your network supports d to ask your network administrator	
Obtain an IP address automat	tically	
O Use the following IP address:		
IP address:	· · · · · · · ·	
Subnet mask:	· · · · · · · · ·	
Default gateway:		
Obtain DNS server address au	utomatically	
Use the following DNS server	addresses:	
Preferred DNS server:		
Alternate DNS server:		
Validate settings upon exit	Advanced	
	OK Cancel	

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. Turn on the router by pressing the **POWER** button on its back panel.
- 3. 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.
- In the Wireless Network Connection Properties window, on the Networking tab, select the Internet Protocol Version 4 (TCP/IPv4) line. Click the Properties button.

 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.

Internet Protocol Version 4 (TCP/IPv4)) Properties
General Alternate Configuration	
You can get IP settings assigned autor this capability. Otherwise, you need to for the appropriate IP settings.	
Obtain an IP address automatical	ly
O Use the following IP address:	
IP address:	· · · · ·
Subnet mask:	
Default gateway:	
Obtain DNS server address auton	matically
OUSE the following DNS server add	iresses:
Preferred DNS server:	· · · · · ·
<u>A</u> lternate DNS server:	
Ualidate settings upon exit	Advanced
	OK Cancel

- 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.



 In the opened window, in the list of available wireless networks, select the wireless network DIR-x1860 (for operating in the 2.4GHz band) or DIR-x1860-5G (for operating in the 5GHz band) and click the Connect button.

Not connected	÷,
Connections are available	
Wi-Fi	^
wireless router Connect automatically <u>Connect</u>	ect
Open Network and Sharing Cen	ter

- 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.
- 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.

Internet Protocol Version 4 (TCP/IPv4) Properties	\times
General Alternate Configuration		
You can get IP settings assigned auto this capability. Otherwise, you need t for the appropriate IP settings.		
Obtain an IP address automatica	lly	
O Use the following IP address:		
IP address:	· · · · · · ·	
Subnet mask:		
Default gateway:		
Obtain DNS server address auto	matically	
O Use the following DNS server ad	dresses:	
Preferred DNS server:		
Alternate DNS server:		
Validate settings upon exit	Advanced	
	OK Cancel	

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

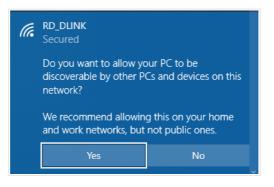
8. To open the list of available wireless networks, select the icon of the wireless network connection and click the **Connect To** button or left-click the network icon in the notification area located on the right side of the taskbar.



 In the opened window, in the list of available wireless networks, select the wireless network DIR-x1860 (for operating in the 2.4GHz band) or DIR-x1860-5G (for operating in the 5GHz band) 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

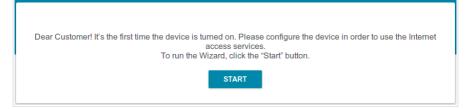
Connecting to Web-based Interface

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 Initial Configuration Wizard opens (see the *Initial Configuration Wizard* section, page 23).



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.

Authori	zation	
Username*		
Password*		
••		Ø
Sta	ay signed in	
Forgot pass	word?	
	Authorization error	
	Attempts remaining: 4	
LOGIN	CLEAR	

In order not to log out, move the **Stay signed in** switch to the right. After closing the web browser or rebooting the device, you need to enter the username and the password again.

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 **Summary** page displays general information on the router and its software.

🕻 Home	Sum	imary	
Device Information		Wi-Fi 5 GHz	
Model:	DIR-X1860	Status:	On
Hardware version:	R1	Broadcasting:	On
Firmware version:	4.0.3	Additional networks:	
Build time:	Mon Jan 29 2024 1:14:25 PM MSK	Network name (SSID):	DIR-X1860-5G-474
UI version:	1.45.0.b6adf44-embedded	Security:	WPA2-PSK
Vendor:	D-Link Russia		
Serial number:	1234567890123		
Support:	support@dlink.ru	WAN IPv4	
Summary:	Root filesystem image for DIR_X1860_MT7621_RAETH	Connection type:	Dynamic IPv
Uptime:	49 min.	Status:	Connected
Device mode:	Router	MAC address	00:0C:43:27:47:4
Enable LEDs:	•	IP address:	192.168.161.23
Wi-Fi 2.4 GHz		LAN	
Status:	On 🔴	LAN IPv4:	192.168.0.
Broadcasting:	On 🔴	Wireless connections:	
Additional networks:	0	Wired connections:	
Network name (SSID):	DIR-X1860-474F		
Security:	WPA2-PSK		
		LAN Ports	
		LAN3:	Off
		LAN2:	1000M-Full 😅
		LAN1:	Off

The **Home** page displays links to the most frequently used pages with device's settings.

≡	Home			
Welcome to configuration interface of D-Link device! This page contains links to interface sections which are often accessed after the initial configuration. Complete list of sections is available in the menu.				
You can block access to unwanted websites by URL addresses.	Service for web filtering and safe internet access.	Virtual Servers You can create virtual servers for redirect Incoming Internet traffic to a specified IP address in the local area network.		
Restriction of Wireless Clients Access You can block WI-FI access to the device for certain clients.	Connection of Multimedia Devices Select ports to connect multimedia devices.	Device Information The device's Information summary.		
Configuration of basic WI-FI parameters. Here you can configure the network name, security settings, etc.				
	Google Play			

The web-based interface of the router is bilingual (English/Russian). You can select the needed language upon the initial configuration of the web-based interface of the router or in the **System / Configuration** section of the menu.

Other settings of the router are available in the menu in the left part of the page. Go to the relevant section and select the needed page or run the wizard in the **Initial Configuration** section.

Initial Configuration Wizard

In order to start the Initial Configuration Wizard manually, go to the **Initial Configuration** section.



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



If you perform initial configuration of the router via Wi-Fi connection, please make sure that you are connected to the wireless network of DIR-X1860 (see the WLAN name (SSID) in the *Default Settings* section, page 3) and click the **NEXT** button. Then click the **START** button.

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

Dear Customer! It's the first time the device is turned on. Please configure the device in order to use the Internet access services. To run the Wizard, click the "Start" button.
START

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

Maybe your la	anguage is English?	
NO	YES	

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 in the 2.4GHz and 5GHz bands, 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.

Device mode		
Connection method		
Wired connection	•	
Nork mode		SSID
Router	-	
	K BACK	NEXT >

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 in the 2.4GHz and 5GHz bands, 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 in the 2.4GHz and 5GHz bands, and set your own password for access to the web-based interface of the device.

Connection method		
Wired connection	•	
Work mode		ssid
Access point	•	- D

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 in the 2.4GHz and 5GHz bands, 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 webbased 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-X1860 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-X1860, do not select the **Automatic obtainment of IPv4 address** checkbox and fill in the **IP address**, **Subnet mask**, **DNS IP address**, **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.

Automatic obtainment of IPv4 address Automatic obtainment of IPv4 address sufficiently protects against use of the same add avoid IPv4 address conflicts, static IPv4 addresses of LAN devises should not coincide with assigned by an upper-level router (or a local DHCP server). IP address* 192.168.0.1	
avoid IPv4 address conflicts, static IPv4 addresses of LAN devises should not coincide with assigned by an upper-level router (or a local DHCP server). IP address*	
192.168.0.1	
Subnet mask*	
255.255.255.0	
Gateway IP address	
DNS IP address*	
8.8.8.8	
Hostname*	
dlinkap799b.local	

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



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

Frequency band			
2.4 GHz		 Attention! Upon connection to netw encryption, basic settings of Wi-Fi netwo 	
Network name (SSID)* RD_DLINK		the standards 802.11b and g will be used in the 2.4 GHz band and the standard 802.11a will be used in the 5 GHz band. Network authentication	
BSSID		WPA2-PSK	•
74:da:da:0a:8f:c9			
		Password PSK*	26
		Encryption type*	
		AES	•
WIRELESS NETWORKS			
WIRELESS NETWORKS			

If you connect to a hidden network, select the band where the hidden network operates from the **Frequency band** list and 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.

IP address*
Subnet mask*
Gateway IP address*
DNS IP address*

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

IP address*	
Prefix*	
Gateway IP address*	
DNS IP address*	

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 (\bigotimes) to display the entered password. If authorization is not required, select the **Without authorization** checkbox.

Username*		
Password*	64	

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		
Username*		
Password*	Ø	
IP address*		
Subnet mask*		
Gateway IP address*		
DNS IP address*		

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 (\bigotimes) to display the entered password. If authorization is not required, select the **Without authorization** checkbox. In the **VPN server address** field, enter the IP address or full domain name of the PPTP or L2TP authentication server.

Without authorization	
Username*	
Password*	Ø
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 (\bigotimes) to display the entered password. If authorization is not required, select the **Without authorization** checkbox. In the **VPN server address** field, enter the IP address or full domain name of the PPTP or L2TP authentication server. Also fill in the following fields: **IP address**, **Subnet mask**, **Gateway IP address**, and **DNS IP address**.

Without authorization	
Username*	
Password*	Ø
VPN server address*	
IP address*	
Subnet mask*	
Gateway IP address*	
DNS IP address*	

- 2. If a particular MAC address was registered by your ISP upon concluding the agreement, from the MAC address assignment method drop-down list (available for the Router mode only), select the Manual value and enter this address in the MAC address field. Choose the Clone MAC address of your device value to place the MAC address of your network interface card in the field, or leave the Default MAC address value to place the router's WAN interface MAC address in the field.
- 3. If the Internet access is provided via a VLAN channel, select the **Use VLAN** checkbox and fill in the **VLAN ID** field (available for the **Router** mode only).

MAC address assignment method		
Default MAC address		
MAC address		
10:62:eb:2c:c8:3a		
_	red to register a certain MAC address in order to get access to the	Internet.
 Use VLAN Select the checkbox if the Internet 	access is provided via a VLAN channel.	

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 in the 2.4GHz band 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.

Wireless Network 2.4 GHz	
Enable	
Broadcast wireless network 2.4 GHz	
① Disabling broadcast does not influ	ence the ability to connect to another Wi-Fi network as a client.
Network name*	
my wi-fi	
Open network	
Password*	
••••••	8
 Password should be between 8 ar Use the same parameter 	d 63 ASCII characters ers as on the root access point.
RESTORE You can restore netwo	rk name and security that was set before applying factory settings.

5. If you want to create an additional wireless network isolated from your LAN in the 2.4GHz band, select the **Enable guest network** checkbox (available for the **Router** and **WISP Repeater** modes only).

 Enable gu 	uest network
to this wireles	Fi network allows connection to your device and getting access to the Internet. Upon that computers connected is network will be isolated from the resources of your main local area network. This helps to secure your LAN vide access to the Internet for temporary users.
Network name*	
my wi-fi_Gue	est
Open net	
Max associated	clients*
0	

- 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. Click the **NEXT** button.
- 9. On the **Wireless Network 5 GHz** page, specify needed settings for the wireless network in the 5GHz band and click the **NEXT** button.

Configuring LAN Ports for IPTV/VoIP

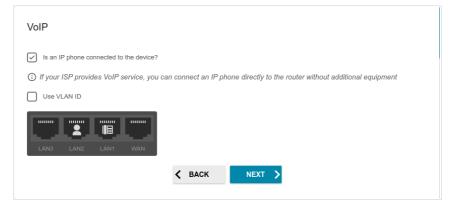
This configuration step is available for the **Router** mode.

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

IPTV
Is an STB connected to the device?
① If your ISP provides IPTV service, you can connect an STB directly to the router without additional equipment
Use VLAN ID
LANZ LAN1 WAN
< BACK NEXT >

- 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.

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



- 6. Select a free LAN port for connecting your IP phone.
- 7. If the VoIP service is provided via a VLAN channel, select the **Use VLAN ID** checkbox and fill in the **VLAN ID** field.
- 8. 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.¹

or security reasons, please char	ge the password used to access the device's	settings.
Jser's interface password*	<i>b</i> y	
 Password should be between 1 a 	nd 31 ASCII characters	
Password confirmation*	\$	

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 **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.

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

Configuring Local Area Network

- 1. Go to the Connections Setup / LAN 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.

IP address*		
192.168.0.1		
Mask*		
255.255.255.)	
Hostname		
dlinkrouter.loo	al	
G Specify a dor	nain name ending v	vith .local. In order to

3. If needed, add a static IPv6 address of the router's LAN interface. To do this, click the **IPv6** tab. In the **Local IPv6 Address** section, click the **ADD** button. In the line displayed, enter an IPv6 address and then a slash followed by a decimal value of the prefix length.



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 IPv4 address assignment drop-down list in the Dynamic IP Addresses section).

Dyna	amic IP Addresses
Mode o	of IPv4 address assignment
DHC	P
Start IP	7*
192.1	68.0.100
End IP	•
192.1	68.0.199
SELE	CT ADDRESS RANGE
Lease t	time (in minutes)*
1440	
Ass clients.	DNS relay

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 IPv6 address assignment drop-down list in the Dynamic IP 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 IPv6 address assignment drop-down list) or an external DHCP server (select the Relay value from the Mode of 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 IPv6 address assignment drop-down list).

Mode of IPV6 ad	dress assignment
Stateful	
Start IP*	
::2	
End IP*	
::64	
Lease time (in m	nutes)*
1440	
1440 (i) Lease time w	ill be chosen by ISP based on the delegated prefix life time.
(i) Lease time w	ill be chosen by ISP based on the delegated prefix life time. lefault route for LAN clients
(i) Lease time w	efault route for LAN clients

6. After specifying the needed parameters on the **Connections Setup** *I* **LAN** page, click the **APPLY** button.

SPECIFICATIONS^{*}

Hardware	
Processor	· MT7621AT (880MHz, dual core)
RAM	· 256MB, DDR3L SDRAM
Flash	· 128MB, NAND
Interfaces	 10/100/1000BASE-T WAN port 3 10/100/1000BASE-T LAN ports
LEDs	 Power Internet WLAN 2.4G WLAN 5G
Buttons	 POWER button to power on/power off RESET button to restore factory default settings WPS button to set up wireless connection and enable/disable wireless network
Antenna	 Two external non-detachable antennas for 2.4GHz band (5dBi gain) Two external non-detachable antennas for 5GHz band (5dBi gain)
МІМО	· 2 x 2, MU-MIMO
Power connector	Power input connector (DC)

Software		
WAN connection types	 PPPoE IPv6 PPPoE PPPoE Dual Stack Static IPv4 / Dynamic IPv4 Static IPv6 / Dynamic IPv6 PPPoE + Static IP (PPPoE Dual Access) PPPoE + Dynamic IP (PPPoE Dual Access) PPTP/L2TP + Static IP PPTP/L2TP + Dynamic IP L2TP Dual Stack 6in4 6to4 6rd 	

^{*} The device features are subject to change without notice. For the latest versions of the firmware and relevant documentation, visit <u>www.dlink.ru</u>.

Software	
Network functions	 DHCP server/relay Advanced configuration of built-in DHCP server Stateful/Stateless mode for IPv6 address assignment, IPv6 prefix delegation Automatic obtainment of LAN IP address (for access point/repeater/client modes) DNS relay Dynamic DNS Static IPv4/IPv6 routing IGMP/MLD Proxy RIP Support of UPnP Support of VLAN WAN ping respond Support of SIP ALG Support of RTSP WAN failover LAN/WAN conversion Multi-WAN support Autonegotiation of speed, duplex mode, and flow control / Manual speed and duplex mode setup for each Ethernet port Built-in UDPXY application Equal load distribution while using several WAN connections (traffic balancing) Support of VRRP Port mirroring Wake-on-LAN support
Firewall functions	 Network Address Translation (NAT) Stateful Packet Inspection (SPI) IPv4/IPv6 filter MAC filter URL filter Ad blocking function DMZ Virtual servers Built-in SkyDNS web content filtering service
VPN	 IPsec/PPTP/L2TP/PPPoE pass-through PPTP/L2TP servers PPTP/L2TP tunnels L2TP over IPsec client GRE/EoGRE/EoIP/IPIP tunnels IPsec tunnels Transport/Tunnel mode IKEv1/IKEv2 support DES encryption NAT Traversal Support of DPD (Keep-alive for VPN tunnels)

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Software	
Management and monitoring	 Local and remote access to settings through SSH/TELNET/WEB (HTTP/HTTPS) Bilingual web-based interface for configuration and management (Russian/English) Support of D-Link Assistant application for Android smartphones Notification on connection problems and auto redirect to settings Firmware update via web-based interface Automatic notification on new firmware version Saving/restoring configuration to/from file Support of logging to remote host Automatic synchronization of system time with NTP server and manual time/date setup Ping utility Traceroute utility TR-069 client SNMP agent Schedules for rules and settings of firewall, automatic reboot, and enabling/disabling wireless network and Wi- Fi filter Automatic upload of configuration file from ISP's server (Auto Provision) Configuration of action for hardware buttons

Wireless Module Parameters		
Standards	 IEEE 802.11ax IEEE 802.11ac Wave 2 IEEE 802.11a/b/g/n 	
Frequency range The frequency range depends upon the radio frequency regulations applied in your country	 2400 ~ 2483.5MHz 5150 ~ 5350MHz 5650 ~ 5850MHz 	
Wireless connection security	 WEP WPA/WPA2 (Personal/Enterprise) WPA3 (Personal) MAC filter WPS (PBC/PIN) 	

Wireless Module Parame	ters
Advanced functions	 Support of client mode WMM (Wi-Fi QoS) Information on connected Wi-Fi clients Advanced settings Smart adjustment of Wi-Fi clients Guest Wi-Fi / support of MBSSID Periodic scan of channels, automatic switch to least loaded channel Support of 2.4GHz/5GHz TX Beamforming Autonegotiation of channel bandwidth in accordance with environment conditions (20/40 Coexistence) Support of STBC CoovaChilli authentication portal Support of TWT technology
Wireless connection rate ²	 IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, and 54Mbps IEEE 802.11b: 1, 2, 5.5, and 11Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, and 54Mbps IEEE 802.11n (2.4GHz/5GHz): from 6.5 to 300Mbps (MCS0–MCS15) IEEE 802.11ac (5GHz): from 6.5 to 867Mbps IEEE 802.11ax (2.4GHz): from 6.5 to 574Mbps IEEE 802.11ax (5GHz): from 6.5 to 1201Mbps

² Maximum wireless signal rate is derived from IEEE standard 802.11ax and 802.11ac specifications. In order to get the rate of 574Mbps in the 2.4GHz band, a Wi-Fi client should support 802.11ax, HE40 mode with MIMO 2x2, and 1024-QAM modulation. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental factors will adversely affect wireless signal range.

Wireless Module Parameters		
Transmitter output power	 802.11a (typical at room temperature 25 °C) 15dBm at 6, 9, 12, 18, 24, 36, 48, 54Mbps 	
The maximum value of the transmitter output power	 802.11b (typical at room temperature 25 °C) 15dBm at 1, 2, 5.5, 11Mbps 	
depends upon the radio frequency regulations applied in your country	 802.11g (typical at room temperature 25 °C) 15dBm at 6, 9, 12, 18, 24, 36, 48, 54Mbps 	
	 802.11n (typical at room temperature 25 °C) 2.4GHz, HT20 15dBm at MCS0/8~7/15 	
	2.4GHz, HT40 15dBm at MCS0/8~7/15	
	5GHz 15dBm at MCS0/8~7/15	
	 802.11ac (typical at room temperature 25 °C) VHT20 15dBm at MCS0~8 	
	VHT40/VHT80 15dBm at MCS0~9	
	802.11ax (typical at room temperature 25 °C) 2.4GHz, HE20/HE40	
	15dBm at HE0~11 5GHz, HE20/HE40/HE80 15dBm at HE0~11	
Receiver sensitivity	 802.11a (typical at PER < 10% (1000-byte PDUs) at room temperature 25 °C) -92dBm at 6Mbps -90dBm at 9Mbps 	
	-89dBm at 12Mbps -87dBm at 18Mbps -84dBm at 24Mbps 80dBm at 24Mbps	
	-80dBm at 36Mbps -76dBm at 48Mbps -74dBm at 54Mbps	
	 802.11b (typical at PER = 8% (1000-byte PDUs) at room temperature 25 °C) -96dBm at 1Mbps 	
	-94dBm at 2Mbps -91dBm at 5.5Mbps -88dBm at 11Mbps	

Wireless Module Parameters		
	 802.11g (typical at PER < 10% (1000-byte PDUs) at room temperature 25 °C) -92dBm at 6Mbps -90dBm at 9Mbps -89dBm at 12Mbps -87dBm at 18Mbps -84dBm at 24Mbps -80dBm at 36Mbps -77dBm at 48Mbps -75dBm at 54Mbps 	
	 802.11n (typical at PER = 10% (1000-byte PDUs) at room temperature 25 °C) 2.4GHz, HT20 -92dBm at MCS0/8 -89dBm at MCS1/9 -87dBm at MCS2/10 -84dBm at MCS3/11 -80dBm at MCS5/13 -75dBm at MCS6/14 -73dBm at MCS0/8 -86dBm at MCS1/9 -83dBm at MCS1/9 -80dBm at MCS1/9 -80dBm at MCS2/10 -80dBm at MCS2/10 -80dBm at MCS1/1 -78dBm at MCS6/14 -70dBm at MCS5/13 -72dBm at MCS6/14 -70dBm at MCS6/14 -70dBm at MCS0/8 -89dBm at MCS0/8 -86dBm at MCS1/9 -86dBm at MCS1/9 -92dBm at MCS0/14 -70dBm at MCS0/14 -70dBm at MCS1/9 -86dBm at MCS1/9 -86dBm at MCS1/1 -79dBm at MCS3/11 -79dBm at MCS3/11 -79dBm at MCS5/13 -74dBm at MCS5/13 	

Wireless Module Parameters		
	5GHz, HE40	
	-88dBm at HE0	
	-86dBm at HE1	
	-84dBm at HE2	
	-81dBm at HE3	
	-78dBm at HE4	
	-74dBm at HE5	
	-73dBm at HE6	
	-71dBm at HE7	
	-67dBm at HE8	
	-65dBm at HE9	
	-62dBm at HE10	
	-60dBm at HE11	
	5GHz, HE80	
	-84dBm at HE0	
	-81dBm at HE1	
	-79dBm at HE2	
	-75dBm at HE3	
	-73dBm at HE4	
	-71dBm at HE5	
	-70dBm at HE6	
	-68dBm at HE7	
	-63dBm at HE8	
	-61dBm at HE9	
	-59dBm at HE10	
	-56dBm at HE11	

Physical Parameters	
Dimensions (L x W x H)	• 174 x 139 x 60 mm (6.85 x 5.47 x 2.36 in)
Weight	• 280 g (0.62 lb)

Operating Environment		
Power	· Output: 12V DC, 1A	
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 95% (non-condensing) 	

TERMSANDCONDITIONSFORINSTALLATION, SAFE OPERATION, STORAGE,TRANSPORTATION, AND DISPOSAL

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 (reception/transmission of data in computer networks); installation should be performed in accordance with the documents available on the official website.

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. The electrical outlet must be installed near the equipment and must be easily accessible.

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 device may be stored and transported only in the original packaging at the temperature and humidity indicated in the specifications. No restrictions apply to sales. Please contact an authorized distributor to dispose of the equipment upon the end of its operation.

The service life of the device is 2 years.

The warranty period starts on the date of purchase from an authorized distributor within Russia or the CIS countries and extends for one year.

Irrespective of the date of purchase, the warranty period cannot exceed 2 years from the date of manufacture, which is determined by 6^{th} (year) and 7^{th} (month) digit in the serial number printed on the device label.

Year: F = 2015, G = 2016, H = 2017, I = 2018, J = 2019, 0 = 2020, 1 = 2021, 2 = 2022, 3 = 2023, 4 = 2024.

Month: 1 - January, 2 - February, ..., 9 - September, A - October, B - November, C - December.

If a fault is detected, please contact D-Link service center or technical support group.

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

http://www.dlink.com