



## **DWR-956**

**Wireless AC1200 4G LTE Router  
with Gigabit Ethernet Ports  
and 1 FXS Port**

## BEFORE YOU BEGIN

### *Delivery Package*

- Router DWR-956
- Power adapter DC 12V/2A
- Ethernet cable
- Two detachable LTE/3G antennas
- RJ-11 telephone 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 [www.dlink.ru](http://www.dlink.ru)).



**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>		<b>dlinkrouter.local.</b>
<b>IP address of device</b>		<b>192.168.0.1</b>
<b>Username (login)</b>		<b>admin</b>
<b>Password</b>		<b>admin</b>
<b>Name of wireless network (SSID)</b>	<b>2.4GHz</b>	<b>DWR-956</b>
	<b>5GHz</b>	<b>DWR-956-5G</b>
<b>Network key (PSK password)</b>		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 or iPhone 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, or ac Wi-Fi adapter to create a wireless network.
- Analog phone.
- An active SIM card (when it is necessary to connect to the Internet via mobile operators' networks)<sup>1</sup>.

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<sup>1</sup> Contact your operator to get information on the service coverage and fees.

## 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. ***To connect via built-in LTE modem:*** insert a SIM card into the slot on the right side panel of the router with the gold contacts facing towards the front of the device and gently push until it clicks.

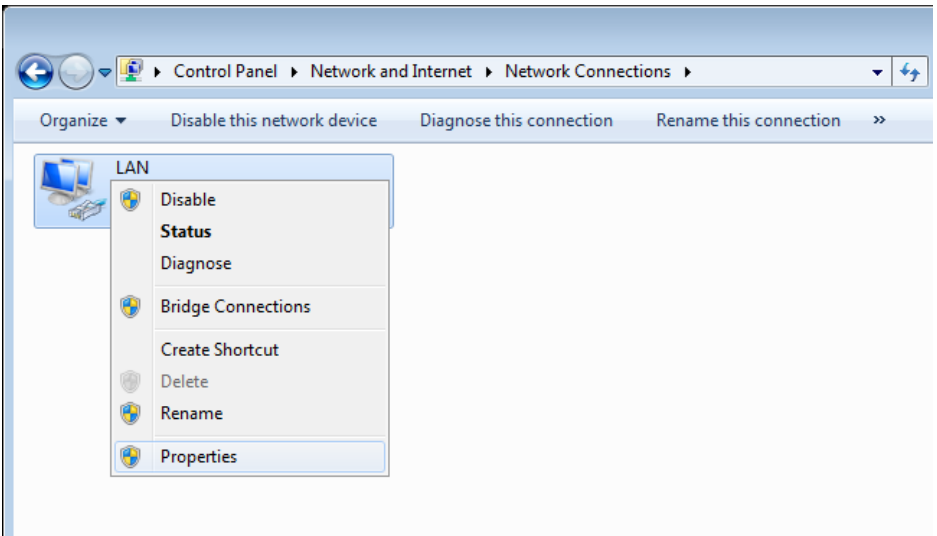


If you need to connect a SIM card or change it to another one when the router is powered on, power off the router, insert or change the SIM card, and power on the router.

3. Connect the phone cable between the **PHONE** port of the router and the phone.
  4. 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.
  5. Turn on the router by pressing the **ON/OFF** button on its right side panel.
- Then make sure that your PC is configured to obtain an IP address automatically (as DHCP client).

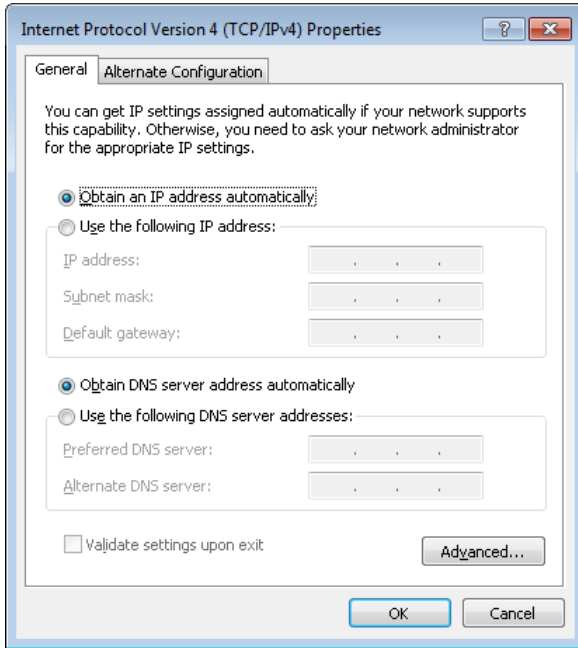
## Obtaining IP Address Automatically (OS Windows 7)

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.



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.

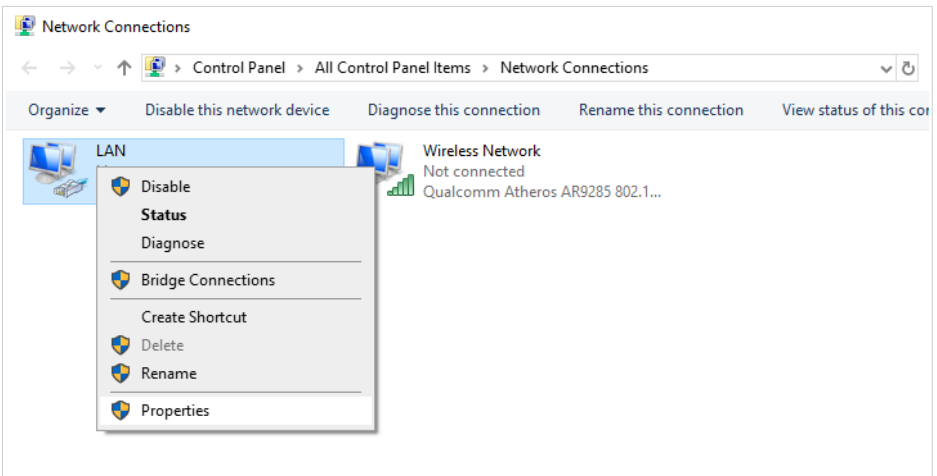
6. Make sure that the **Obtain an IP address automatically** and **Obtain DNS server address automatically** choices of the radio buttons are selected. Click the **OK** button.



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

## Obtaining IP Address Automatically (OS Windows 10)

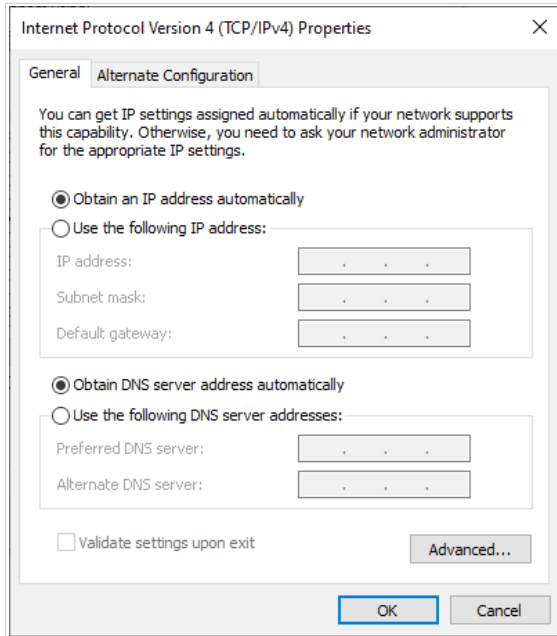
1. Click the **Start** button and proceed to the **Settings** window.
2. Select the **Network & Internet** section.
3. In the **Change your network settings** section, select the **Change adapter options** line.
4. In the opened window, right-click the relevant **Local Area Connection** icon and select 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. ***To connect via built-in LTE modem:*** insert a SIM card into the slot on the right side panel of the router with the gold contacts facing towards the front of the device and gently push until it clicks.



If you need to connect a SIM card or change it to another one when the router is powered on, power off the router, insert or change the SIM card, and power on the router.

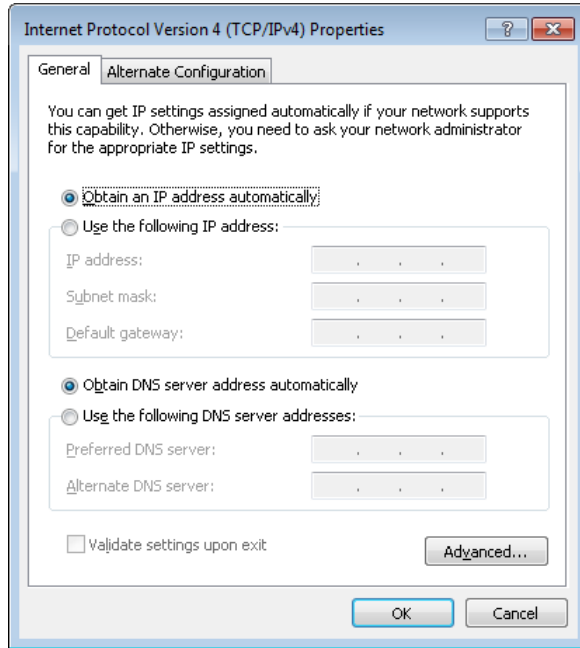
2. Connect the phone cable between the **PHONE** port of the router and the phone.
3. Connect the power cord to the power connector port on the back panel of the router, then plug the power adapter into an electrical outlet or power strip.
4. Turn on the router by pressing the **ON/OFF** button on its right side panel.
5. 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).

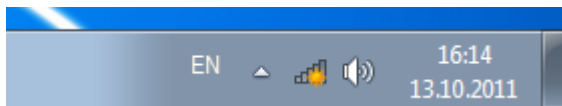
## ***Obtaining IP Address Automatically and Connecting to Wireless Network (OS Windows 7)***

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.

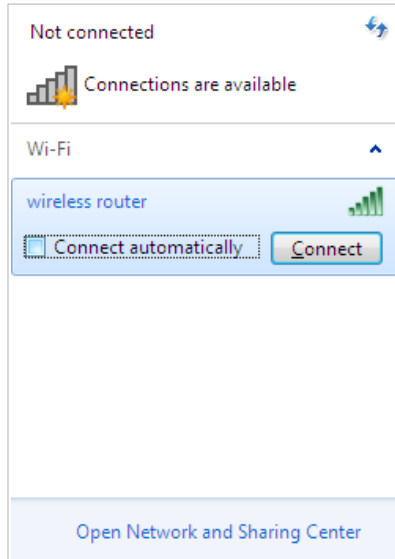
6. Make sure that the **Obtain an IP address automatically** and **Obtain DNS server address automatically** choices of the radio buttons are selected. Click the **OK** button.



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.



- In the opened window, in the list of available wireless networks, select the wireless network **DWR-956** (for operating in the 2.4GHz band) or **DWR-956-5G** (for operating in the 5GHz band) and click the **Connect** button.



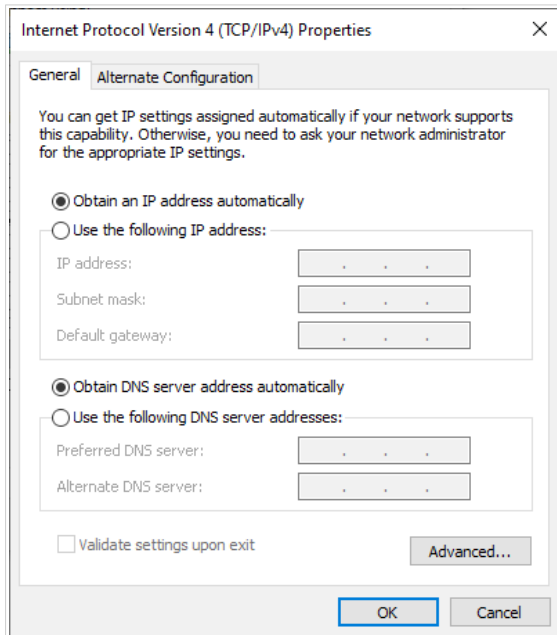
- In the opened window, enter the network key (see WPS PIN on the barcode label on the bottom panel of the device) in the **Security key** field and click the **OK** button.
- Wait for about 20-30 seconds. After the connection is established, the network icon will be displayed as the signal level scale.



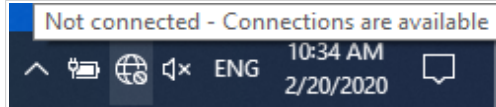
If you perform initial configuration of the router via Wi-Fi connection, note that immediately after changing the wireless default settings of the router you will need to reconfigure the wireless connection using the newly specified settings.

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

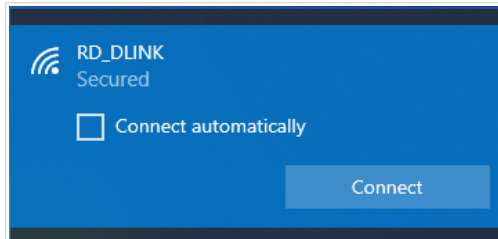
1. Click the **Start** button and proceed to the **Settings** window.
2. Select the **Network & Internet** section.
3. In the **Change your network settings** section, select the **Change adapter options** line.
4. In the opened window, right-click the relevant **Wireless Network Connection** icon. Make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



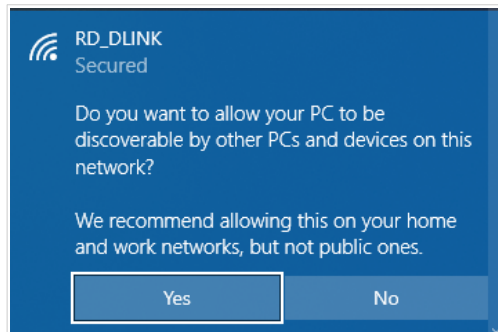
- Click the **Close** button in the connection properties window.
- To open the list of available wireless networks, select the icon of the wireless network connection and click the **Connect To** button or left-click the network icon in the notification area located on the right side of the taskbar.



- In the opened window, in the list of available wireless networks, select the wireless network **DWR-956** (for operating in the 2.4GHz band) or **DWR-956-5G** (for operating in the 5GHz band) and click the **Connect** button.



- 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.
- 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.



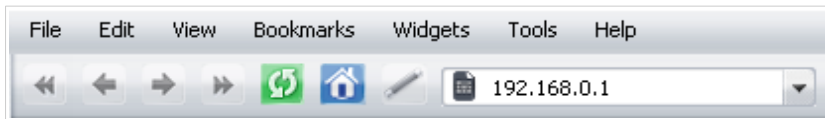
If you perform initial configuration of the router via Wi-Fi connection, note that immediately after changing the wireless default settings of the router you will need to reconfigure the wireless connection using the newly specified settings.



# CONFIGURING ROUTER

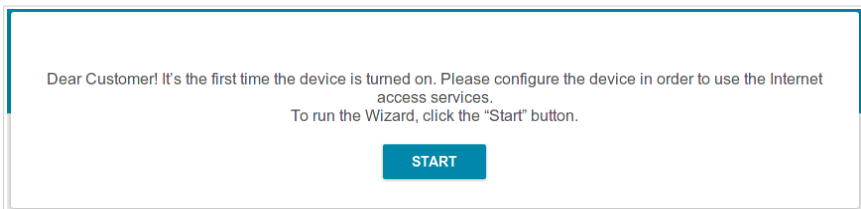
## Connecting to Web-based Interface

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**).

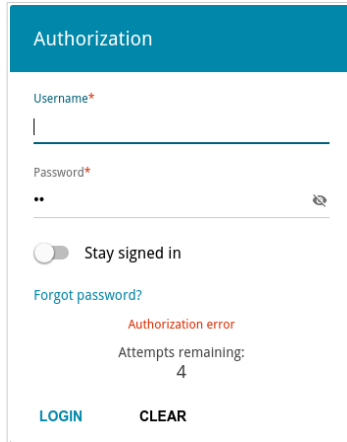


**!** If the error “*The page cannot be displayed*” (or “*Unable to display the page*”/“*Could not connect to remote server*”) occurs upon connecting to the web-based interface of the router, make sure that you have properly connected the router to your computer.

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 21).



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.



Authorization

Username\*

admin

Password\*

•••••

Stay signed in

[Forgot password?](#)

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.

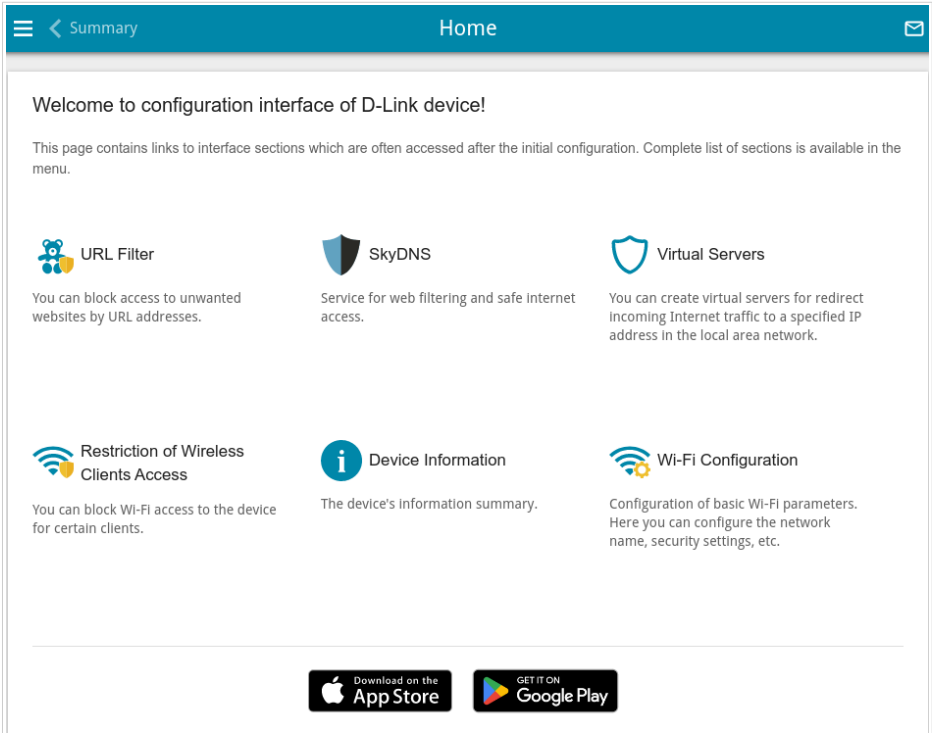
If you enter a wrong password several times, the web-based interface will be blocked for a while. Please wait for one minute and reenter the password you specified.

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

The screenshot shows the 'Summary' page of the DWR-956 router. The page is divided into several sections:

- Device Information:**
  - Model: DWR-956
  - Hardware version: B1
  - Firmware version: 4.0.1
  - Build time: Mon Sep 26 2022 3:59:43 PM MSK
  - UI version: 1.35.0.4331785-embedded
  - Vendor: D-Link Russia
  - Serial number: 1234567890123
  - Support: support@dlink.ru
  - Summary: Root filesystem image for DWR\_956RTL
  - Uptime: 20 min.
  - Device mode: Router
  - Enable LEDs:
- WAN IPv4:**
  - Connection type: Dynamic IPv4
  - Status: Connected ●
  - MAC address: 00:E0:4C:58:57:19
  - IP address: 192.168.161.229
- LAN:**
  - LAN IPv4: 192.168.0.1
  - Wireless connections: -
  - Wired connections: 1
- LAN Ports:**
  - LAN1: Off
  - LAN2: Off
  - LAN3: Off
  - LAN4: 1000M-Full
- Wi-Fi 2.4 GHz:**
  - Status: On ●
  - Broadcasting: On ●
  - Additional networks: 0
  - Network name (SSID): DWR-956-5719
  - Security: WPA2-PSK 🔒
- Wi-Fi 5 GHz:**
  - Status: On ●
  - Broadcasting: On ●
  - Additional networks: 0
  - Network name (SSID): DWR-956-5G-5719
  - Security: WPA2-PSK 🔒
- LTE Modem:**
  - BROADMOBI BM806C
- VoIP:**
  - DHCP option 120 status
  - DHCP option 120: Enabled
  - ⓘ Option value is not received

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

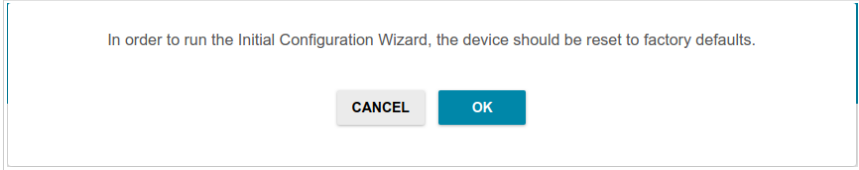


The web-based interface of the router is multilingual. You can select the needed language upon the initial configuration of the web-based interface of the router or in the **System / Configuration** section of the menu.

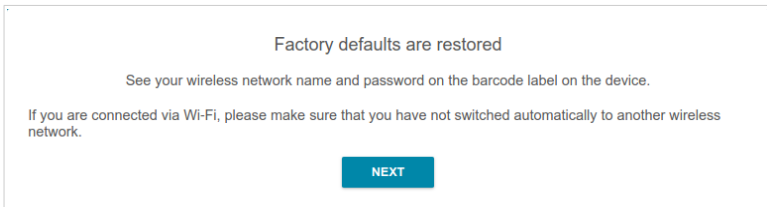
Other settings of the router are available in the menu in the left part of the page. Go to the relevant section and select the needed page or run the wizard in the **Initial Configuration** section.

## Initial Configuration Wizard

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

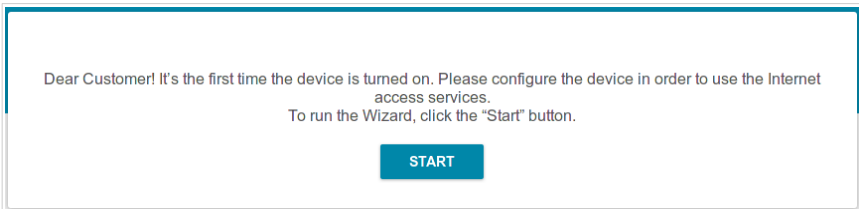


Click the **OK** button and wait until the factory default settings are restored.

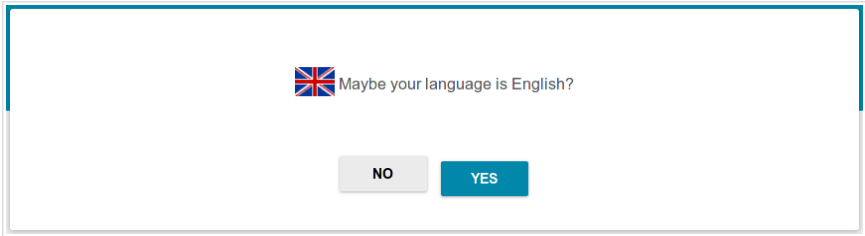


If you perform initial configuration of the router via Wi-Fi connection, please make sure that you are connected to the wireless network of DWR-956 (see the WLAN name (SSID) in the *Default Settings* section, page 3) and click the **NEXT** button. Then click the **START** button.

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.



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 private Ethernet line, on the **Device mode** page, from the **Connection method** list, select the **Ethernet** value. Then from the **Work mode** list, select the **Router** value. In this mode you can configure one of the router's LAN port as the WAN port, 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  
**Ethernet** ▼

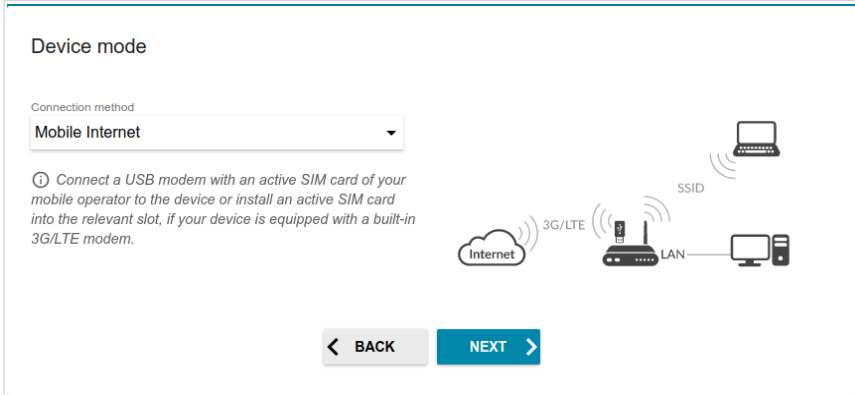
① Select this method of connection if you have concluded an agreement for provision of the Internet service via Ethernet. WAN port will be used as the Internet port.

Work mode  
**Router** ▼



← BACK    NEXT →

In order to connect your device to the network of a 3G or LTE operator, on the **Device mode** page, from the **Connection method** list, select the **Mobile Internet** value. In this mode you can configure a 3G/LTE 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.



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 **Ethernet** 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.

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 web-based interface of the device.

## Creating LTE WAN Connection

This configuration step is available for the **Mobile Internet** mode.

1. If the PIN code check is enabled for the SIM card inserted into the built-in modem, enter the PIN code in the **PIN** field and click the **APPLY** button.

### Modem Settings

Vendor: **BroadMobi**  
Model: **BM806C**  
Modem: **Modem 1**

---

Modem  
**BroadMobi BM806C** ▼

Please enter the PIN code of the SIM card  
Modem: Modem 1  
Attempts left: 3

PIN\*

**APPLY**

**< BACK**      **NEXT >**

2. Please wait while the router automatically creates a WAN connection for your mobile operator.

### Modem Settings

Vendor: **BroadMobi**  
Model: **BM806C**  
Modem: **Modem 1**

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Modem  
**BroadMobi BM806C** ▼

The connection has been created automatically.  
Click "Next" to continue configuration

[← BACK](#) [NEXT →](#)

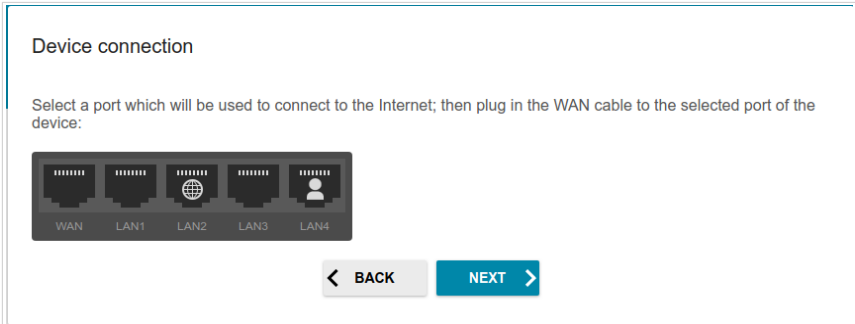
3. Click the **NEXT** button.

If the router failed to create a WAN connection automatically, click the **CONFIGURE MANUALLY** button. On the **Modem Settings** page, configure all needed settings and click the **NEXT** button.

## Configuring LAN Port as WAN Port

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

1. On the **Device connection** page, select a free LAN port which will be used as the WAN port.



2. Click the **NEXT** button.

## 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 DWR-956 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 DWR-956, 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.

### LAN

Automatic obtainment of IPv4 address

⚠ Automatic obtainment of IPv4 address sufficiently protects against use of the same addresses in one LAN. In order to avoid IPv4 address conflicts, static IPv4 addresses of LAN devices should not coincide with addresses from the address range 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**

ⓘ 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, dlinkap12ab.local/)


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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.


**Wi-Fi Client**

Frequency band  
2.4 GHz

Network name (SSID)\*  
RD\_DLINK

BSSID  
74:DA:DA:0A:8F:C9

Network authentication  
WPA2-PSK

Password PSK\* 

ⓘ Password should be between 8 and 63 ASCII characters

Encryption type\*  
AES

**WIRELESS NETWORKS**

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⚠ Attention! Upon connection to networks with WEP or TKIP encryption, basic settings of Wi-Fi networks will be changed: the standards 802.11b and g will be used in the 2.4GHz band and the standard 802.11a will be used in the 5GHz band.

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

Without authorization

Username\*

---

Password\* 👁

---

**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\* 👁

---

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 (👁) 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.

Without authorization

Username\*

---

Password\* 👁

---

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**.

Without authorization

Username\*

---

Password\* 👁

---

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 

 In some ISP's networks, it is required 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.

VLAN ID\*

---

4. Click the **NEXT** button.

## Configuring Wireless Network

This configuration step is available for the **Mobile Internet, 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

ⓘ Disabling broadcast does not influence the ability to connect to another Wi-Fi network as a client.

Network name\*

my wi-fi

ⓘ The number of characters should not exceed 32

Open network

Password\*

..... 🔒

ⓘ Password should be between 8 and 63 ASCII characters

**USE** Use the same parameters as on the root access point.

**RESTORE** You can restore network name and security that was set before applying factory settings.

- 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 **Mobile Internet**, **Router**, and **WISP Repeater** modes only).

Enable guest network

① 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\*

my wi-fi\_Guest

① The number of characters should not exceed 32

Open network

Max associated clients\*

0

Enable shaping

- In the **Network name** field, specify your own name for the guest wireless network or leave the value suggested by the router.
- 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.
- If you want to limit the bandwidth of the guest wireless network, select the **Enable shaping** checkbox and fill in the **Shaping** field.
- Click the **NEXT** button.
- 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

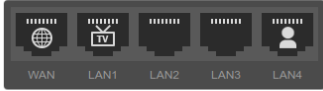


Diagram showing the router's ports: WAN, LAN1, LAN2, LAN3, and LAN4. LAN1 is highlighted with a TV icon above it, indicating it is selected for IPTV service.

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.

VoIP

Is an IP phone connected to the device?

*① If your ISP provides VoIP service, you can connect an IP phone directly to the router without additional equipment*

Use VLAN ID

WAN LAN1 LAN2 LAN3 LAN4

[← BACK](#) [NEXT →](#)

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.<sup>2</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 **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>2</sup> 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.

### Local IP Address

IP address\*

192.168.0.1

---

Mask\*


255.255.255.0

---

Hostname


dlinkrouter.local

---


 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, dlinkrouter.local.)

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.

### Local IPv6 Address

For example: fd00::1/64 

---

 Enter IPv6 address, slash (/), and a decimal value equal to the size in bits of the prefix.


**ADD**

---

Hostname

dlinkrouter.local

---

 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, dlinkrouter.local.)

- 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).

### Dynamic IP Addresses

Mode of IPv4 address assignment  
DHCP

---

Start IP\*  
192.168.0.100

---

End IP\*  
192.168.0.199

---

**SELECT ADDRESS RANGE**

Lease time (in minutes)\*  
1440

---

DNS relay

① Assigns the LAN IP address of the device as the DNS server for connected 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 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.

The screenshot shows the 'Dynamic IP Addresses' configuration page. At the top, there is a dropdown menu for 'Mode of IPv6 address assignment' with 'Stateful' selected. Below this are two input fields: 'Start IP\*' with the value '::2' and 'End IP\*' with the value '::64'. A section titled 'SELECT ADDRESS RANGE' follows, containing a 'Lease time (in minutes)\*' field with the value '1440'. Below the lease time field is a note: 'Lease time will be chosen by ISP based on the delegated prefix life time.' There are two toggle switches: 'The default route for LAN clients' (which is currently off) and 'DNS relay' (which is currently on). A final note at the bottom states: 'Assigns the LAN IP address of the device as the DNS server for connected clients.'

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

## Configuring VoIP via SIP

1. Connect the phone to the **PHONE** port of the router using an RJ-11 cable.
2. Go to the **VoIP / Home** page.
3. In the **Profile List** section, select the **Voice profile** line.

Profile List + 			
<input type="checkbox"/>	Name	DHCP option 120	Status
<input type="checkbox"/>	Voice profile	Enabled	Enabled

4. In the opened window, move the **Enable** switch to the right.

Profile
×

Enable

Enable DHCP option 120

Name\*  
Voice profile

SAVE

5. If your provider does not require automatic obtainment of the SIP proxy server address, move the **Enable DHCP option 120** switch to the left.
6. Click the **SAVE** button and then click the **APPLY** button.
7. Go to your profile basic settings page (**VoIP / Voice profile / Basic Settings** for the default profile).
8. In the **SIP Proxy** section, in the **Address** field, specify an IP or URL address of the VoIP registration server provided by your ISP.

SIP Proxy

Address\*

---

Port\*

5060

---

9. If your provider requires users to specify a SIP domain, in the **SIP Domain** section, fill in the **SIP domain name** field and, if needed, move the **Use domain to register** switch to the right (contact your ISP to clarify if the setting is required).



**SIP Domain**

Use domain to register

SIP domain name

10. Click the **APPLY** button.

11. In the **List of SIP Lines** section, click the **ADD** button (  ).

List of SIP Lines  

SIP ID / Number	Username	Ports	Status

12. On the opened page, in the **General** section, move the **Enable** switch to the right.

**General**

Enable

Port

SIP ID / Number\*

Username

Password

PIN code to dial

Enable Display name

Display name

13. From the **Port** drop-down list, select the **phone 1** value (the value corresponds to the **PHONE** port).
14. In the **SIP ID / Number** field, specify the phone number provided by your ISP for making calls.
15. Enter the username in the **Username** field (as a rule, the username and the phone number are the same) and fill in the **Password** field (contact your ISP to clarify if the setting is required).
16. If needed, fill in other fields on the **VoIP / Voice profile / Basic Settings** page in accordance with data provided by the ISP.
17. Click the **APPLY** button.

After completing configuration, you can check the registration status of the line on the **Summary** page.

## SPECIFICATIONS\*

Hardware	
<b>Processor</b>	<ul style="list-style-type: none"> <li>RTL8685PB (1GHz)</li> </ul>
<b>RAM</b>	<ul style="list-style-type: none"> <li>128MB, DDR2, built in processor</li> </ul>
<b>Flash</b>	<ul style="list-style-type: none"> <li>16MB, SPI</li> </ul>
<b>Built-in modem</b>	<ul style="list-style-type: none"> <li>BroadMobi BM806U-E1</li> </ul>
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>Slot for SIM card (mini-SIM)</li> <li>10/100/1000BASE-T WAN port</li> <li>4 10/100/1000BASE-T LAN ports</li> <li>FXS port</li> </ul>
<b>LEDs</b>	<ul style="list-style-type: none"> <li>POWER</li> <li>INTERNET</li> <li>5GHz</li> <li>2.4GHz</li> <li>4G</li> <li>2G/3G</li> <li>LAN</li> <li>WAN</li> <li>VOICE</li> <li>SMS</li> <li>SIGNAL STRENGTH</li> </ul>
<b>Buttons</b>	<ul style="list-style-type: none"> <li>ON/OFF button to power on/power off</li> <li>RESET button to restore factory default settings</li> <li>WPS button to set up wireless connection</li> <li>WLAN button to enable/disable wireless network</li> </ul>
<b>Antenna</b>	<ul style="list-style-type: none"> <li>Two detachable LTE/3G antennas (3dBi gain)</li> <li>Two internal Wi-Fi antennas for 2.4GHz band (3dBi gain)</li> <li>Two internal Wi-Fi antennas for 5GHz band (3dBi 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>

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

<b>Software</b>	
<b>WAN connection types</b>	<ul style="list-style-type: none"> <li>· Mobile Internet</li> <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</li> <li>· PPPoE + Dynamic IP</li> <li>· PPTP/L2TP + Static IP</li> <li>· PPTP/L2TP + Dynamic IP</li> </ul>
<b>Network functions</b>	<ul style="list-style-type: none"> <li>· DHCP server/relay</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>· RIP</li> <li>· Support of UPnP</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>· LAN/WAN conversion</li> <li>· Autonegotiation of speed, duplex mode, and flow control / Manual speed and duplex mode setup for each Ethernet port</li> <li>· Built-in UDPXY application</li> <li>· Equal load distribution while using several WAN connections (traffic balancing)</li> </ul>
<b>Firewall functions</b>	<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>· Virtual servers</li> <li>· Built-in SkyDNS web content filtering service</li> </ul>



Software	
<b>VPN</b>	<ul style="list-style-type: none"> <li>· IPsec/PPTP/L2TP/PPPoE pass-through</li> <li>· PPTP/L2TP servers</li> <li>· PPTP/L2TP tunnels</li> <li>· L2TP over IPsec</li> <li>· GRE/EoGRE/EoIP tunnels</li> <li>· IPsec tunnels               <ul style="list-style-type: none"> <li>Transport/Tunnel mode</li> <li>IKEv1/IKEv2 support</li> <li>DES encryption</li> <li>NAT Traversal</li> <li>Support of DPD (Keep-alive for VPN tunnels)</li> </ul> </li> </ul>
<b>Management and monitoring</b>	<ul style="list-style-type: none"> <li>· Local and remote access to settings through SSH/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>· Schedules for rules and settings of firewall, automatic reboot, limitation of wireless client maximum bandwidth, and enabling/disabling wireless network and Wi-Fi filter</li> <li>· Automatic upload of configuration file from ISP's server (Auto Provision)</li> <li>· Configuration of action for hardware buttons</li> </ul>

LTE Module Parameters	
<b>LTE connection rate<sup>3</sup></b>	<ul style="list-style-type: none"> <li>· Downlink: up to 150Mbps</li> <li>· Uplink: up to 50Mbps</li> </ul>

<sup>3</sup> Data rates are theoretical. Data transfer rate depends on network capacity and signal strength.

LTE Module Parameters	
<b>Supported frequencies<sup>4</sup></b>	<ul style="list-style-type: none"> <li>• Power Class 3</li> <li>• LTE Band: TX / RX B1: 1920~1980MHz / 2110~2170MHz B2: 1850~1910MHz / 1930~1990MHz B3: 1710~1785MHz / 1805~1880MHz B5: 824~849MHz / 869~894MHz B7: 2500~2570MHz / 2620~2690MHz B8: 880~915MHz / 925~960MHz B20: 832~862MHz / 791~821MHz B38: 2570~2620MHz / 2570~2620MHz B40: 2300~2400MHz / 2300~2400MHz</li> <li>• UMTS B1/2/3/5/8 (2100/1900/1800/850/900MHz)</li> <li>• GSM/GPRS 850/900/1800/1900MHz</li> </ul>
<b>Functions</b>	<ul style="list-style-type: none"> <li>• Auto connection to available type of supported network (4G/3G/2G)</li> <li>• Auto configuration of connection upon plugging in SIM card</li> <li>• Enabling/disabling PIN code check, changing PIN code</li> <li>• Sending/receiving/reading/removing SMS messages</li> <li>• Support of USSD requests (<i>For DWR-956 with the built-in modem FW version M1.4.4_E1.0.3_A1.1.8. See the data on the modem FW version in the web-based interface of the router, on the "LTE Modem" page.</i>)</li> </ul>

Wireless Module Parameters	
<b>Standards</b>	<ul style="list-style-type: none"> <li>• IEEE 802.11n/ac</li> <li>• IEEE 802.11b/g/n</li> <li>• IEEE 802.11k/v</li> <li>• IEEE 802.11w</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> <li>• 5150 ~ 5350MHz</li> <li>• 5650 ~ 5850MHz</li> </ul>
<b>Wireless connection security</b>	<ul style="list-style-type: none"> <li>• WEP</li> <li>• WPA/WPA2 (Personal/Enterprise)</li> <li>• WPA3 (Personal)</li> <li>• MAC filter</li> <li>• WPS (PBC/PIN)</li> </ul>

<sup>4</sup> Supported frequency bands are dependent on regional variants.

<b>Wireless Module Parameters</b>	
<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>• Smart adjustment of Wi-Fi clients</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>• Support of 2.4GHz/5GHz TX Beamforming</li> <li>• Autonegotiation of channel bandwidth in accordance with environment conditions (20/40 Coexistence)</li> <li>• Support of STBC</li> </ul>
<b>Wireless connection rate</b>	<ul style="list-style-type: none"> <li>• IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, and 54Mbps</li> <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 (2.4GHz/5GHz): from 6.5 to 300Mbps (from MCS0 to MCS15)</li> <li>• IEEE 802.11ac (5GHz): from 6.5 to 867Mbps (from MCS0 to MCS9)</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 15dBm (+/-1.5dB)</li> <li>• 802.11g 12dBm (+/-1.5dB)</li> <li>• 802.11n HT20 12dBm (+/-1.5dB) HT40 12dBm (+/-1.5dB)</li> <li>• 802.11ac 14dBm</li> </ul>
<b>Receiver sensitivity</b>	<ul style="list-style-type: none"> <li>• 802.11b -76dBm at 11Mbps</li> <li>• 802.11g -65dBm at 54Mbps</li> <li>• 802.11n HT20 -64dBm at MCS7/15 HT40 -61dBm at MCS7/15</li> <li>• 802.11ac VHT20 -56dBm at MCS8 VHT40 -53dBm at MCS9 VHT80 -51dBm at MCS9</li> </ul>

## Wireless Module Parameters

<b>Modulation schemes</b>	<ul style="list-style-type: none"> <li>• 802.11b: DSSS/BPSK/QPSK/CCK</li> <li>• 802.11g: OFDM/DSSS/BPSK/QPSK/CCK</li> <li>• 802.11n: BPSK/QPSK/16 QAM/64 QAM/DBPSK/DQPSK/CCK</li> <li>• 802.11ac: BPSK/QPSK/16 QAM/64 QAM/256 QAM</li> </ul>
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## Phone

<b>General SIP Features</b>	<ul style="list-style-type: none"> <li>• Support of several SIP profiles</li> <li>• Individual account per port</li> <li>• Invite with Challenge</li> <li>• Register by IP address or domain name of SIP server</li> <li>• Backup proxy support</li> <li>• Support of DHCP option 120</li> <li>• RFC3986 SIP URI format support</li> <li>• Outbound proxy support</li> <li>• STUN client</li> <li>• NAT public IP address</li> <li>• NAT keep-alive</li> <li>• Session timer (re-invite/update)</li> <li>• Call types: voice/modem/fax</li> <li>• User programmable Dial Plan</li> <li>• Manual peer table (for P2P calls)</li> <li>• Handling numbers in E.164 format</li> </ul>
<b>Call Features</b>	<ul style="list-style-type: none"> <li>• Direct IP-to-IP call without SIP proxy (P2P)</li> <li>• Call hold/retrieve</li> <li>• Call awaiting</li> <li>• Forwarding (unconditional, busy, no answer)</li> <li>• Do Not Disturb</li> <li>• Blocking hidden number calls</li> <li>• CLIR</li> <li>• Speed/abbreviated dialing</li> <li>• PIN code before dialing</li> <li>• Hotline</li> <li>• Vertical service codes</li> <li>• Intercom (internal calls without SIP server)</li> <li>• Filtering SIP packets by IP address/domain name (white/black list)</li> <li>• Alarm clock</li> <li>• Logging calls<sup>5</sup></li> </ul>

<sup>5</sup> The function will be implemented in the next firmware version.

Phone	
<b>Voice Features</b>	<ul style="list-style-type: none"> <li>· Codecs: G.711 a/μ-law, G.729A, G.726, G.722, G.723.1</li> <li>· DTMF detection and generation</li> <li>· In-band DTMF, out-of-band DTMF (RFC2833, SIP-INFO)</li> <li>· Comfort Noise Generation (CNG)</li> <li>· Voice Activity Detection (VAD)</li> <li>· Dynamic Jitter Buffer</li> <li>· Echo Cancellation (LEC/NLP)</li> <li>· Call progress tone generation (FXS)</li> <li>· DTMF/PULSE dial support</li> <li>· Caller ID detection and generation</li> <li>· T.30 FAX bypass to G.711, T.38 Real Time FAX Relay, V.152</li> <li>· Adjustable Flash Time</li> <li>· Advanced call transfer, three-party calls</li> <li>· Volume control (speaker/microphone)</li> </ul>

Physical Parameters	
<b>Dimensions (L x W x H)</b>	· 170 x 80 x 180 mm (6.7 x 3.2 x 7.1 in)
<b>Weight</b>	· 400 g (0.88 lb)

Operating Environment	
<b>Power</b>	· Output: 12V DC, 2A
<b>Temperature</b>	<ul style="list-style-type: none"> <li>· Operating: from 0 to 40 °C</li> <li>· Storage: from -10 to 70 °C</li> </ul>
<b>Humidity</b>	<ul style="list-style-type: none"> <li>· Operating: from 10% to 90% (non-condensing)</li> <li>· Storage: from 0% to 95% (non-condensing)</li> </ul>

## 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**

<http://www.dlink.com>