



### **DAP-600P**

**Wireless AC2600 Wave 2 MU-MIMO Dual Band PoE  
Access Point / Router**

## BEFORE YOU BEGIN

### *Delivery Package*

- Access point DAP-600P
- Wall mounting bracket with mounting kit
- “*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*

IP address of device		192.168.0.50
Username (login)		admin
Password		admin
Name of wireless network (SSID)	2.4GHz	DAP-600P
	5GHz	DAP-600P-5G
Network key (PSK password)		see WPS PIN on the barcode label on the bottom panel of the device

## ***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 access point.
- An 802.11a, b, g, n, or ac 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 adapter (12V DC, 1.5A, not included in the delivery package) to the power connector port on the back panel of the access point, then plug the power adapter into an electrical outlet or power strip.
2. Make sure that the Wi-Fi connection on your mobile device is on. To switch it on, go to the mobile device settings.
3. In the list of available wireless networks on your mobile device, select the wireless network **DAP-600P** (for operating in the 2.4GHz band) or **DAP-600P-5G** (for operating in the 5GHz band).
4. 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 DAP-600P.
5. In the settings of the wireless network **DAP-600P** (for operating in the 2.4GHz band) or **DAP-600P-5G** (for operating in the 5GHz band) on your mobile device, in the **IP Settings** field, select the **Static** value (for Android) or the **Manual** value (for iOS).<sup>1</sup>
6. Enter the value **192.168.0.51** in the **IP address** field. For iOS devices, also specify the subnet mask **255.255.255.0**. Confirm the changed settings.

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<sup>1</sup> Field names may vary in different versions of operating systems on mobile devices.

7. Launch D-Link Assistant application on your mobile device. The application is available for Android and iPhone smartphones in AppStore and Google Play.

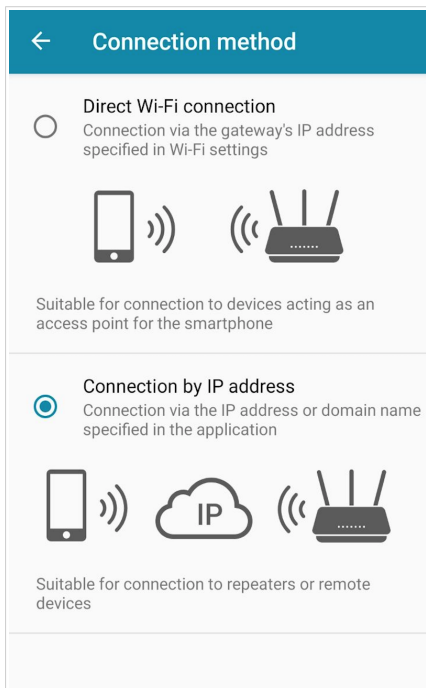


*D-Link Assistant for  
Android*

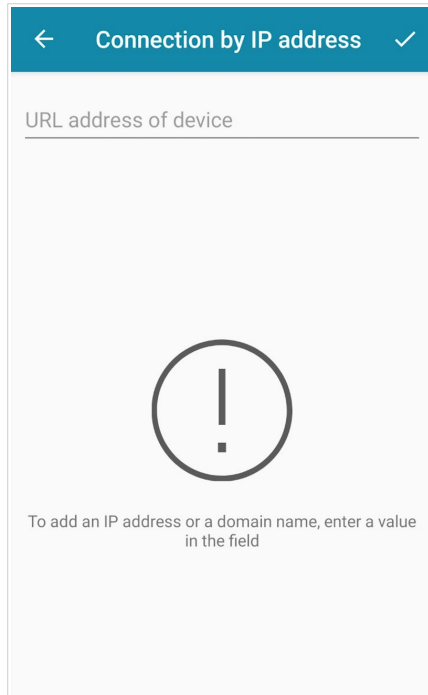


*D-Link Assistant for iOS*

8. In the application menu, in the **Connection method** section select the **Connection by IP address** value.



9. On the application main page click the **CHANGE ADDRESS** button.
10. On the opened page, enter the IP address of the access point (by default, the following IP address is specified: **192.168.0.50**) in the device URL address field and click the button to confirm.



11. Make sure that the application correctly identified the access point to which you connect, and click the **Open** button to configure all needed parameters of DAP-600P.

You can go through the Initial Configuration Wizard or finish the Wizard earlier and go the configuration menu.



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

When DAP-600P is accessed with the application the next time and after, the authorization page opens. Enter the username (**admin**) and the password you specified.



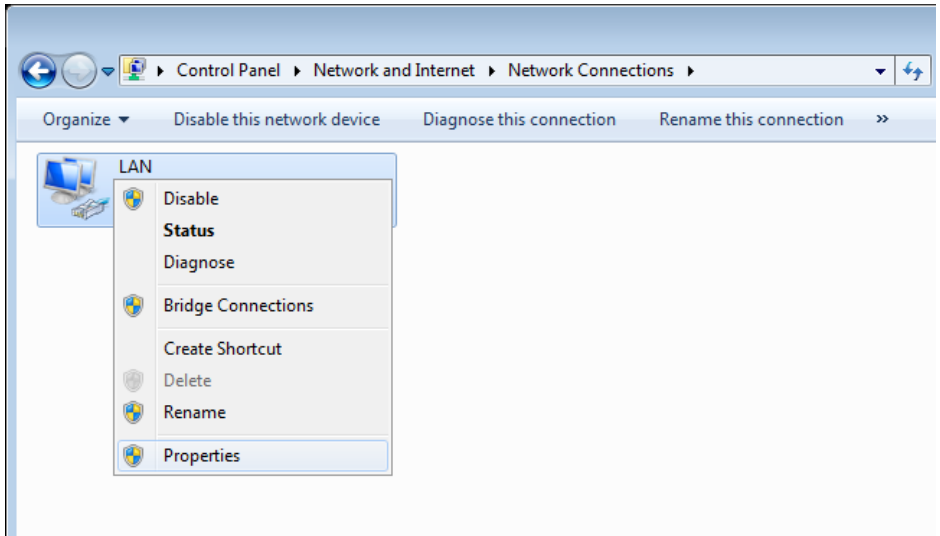
## ***PC with Ethernet Adapter***

1. Connect an Ethernet cable between the LAN port of the access point and the Ethernet port of your PC.
2. ***For a switch supporting PoE:*** connect an Ethernet cable between the PoE-enabled switch and the WAN port of the access point.
3. ***For a switch not supporting PoE or router:*** connect an Ethernet cable between the switch or router and any Ethernet port of the access point.
4. Connect the power adapter (12V DC, 1.5A, not included in the delivery package) to the power connector port on the back panel of the access point, then plug the power adapter into an electrical outlet or power strip.

Now you need to configure an IP address for the Ethernet adapter of your PC.

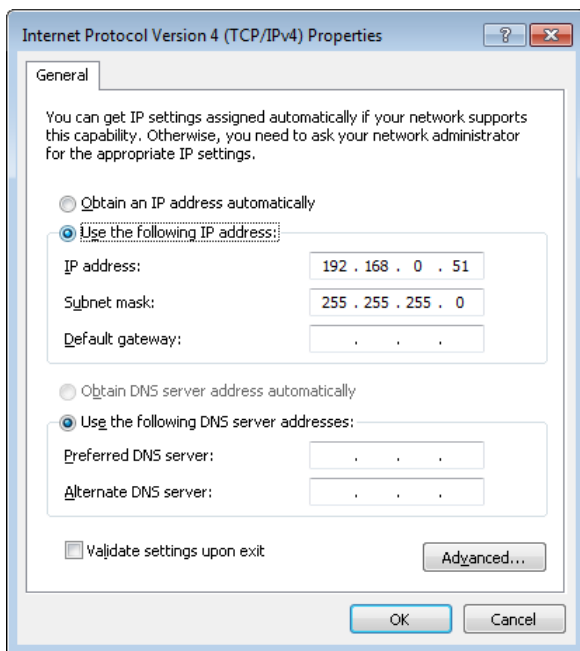
## Configuring IP Address in OS Windows 7

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. Select the **Use the following IP address** radio button and enter the value **192.168.0.51** in the **IP address** field. The **Subnet mask** field will be filled in automatically. Click the **OK** button.

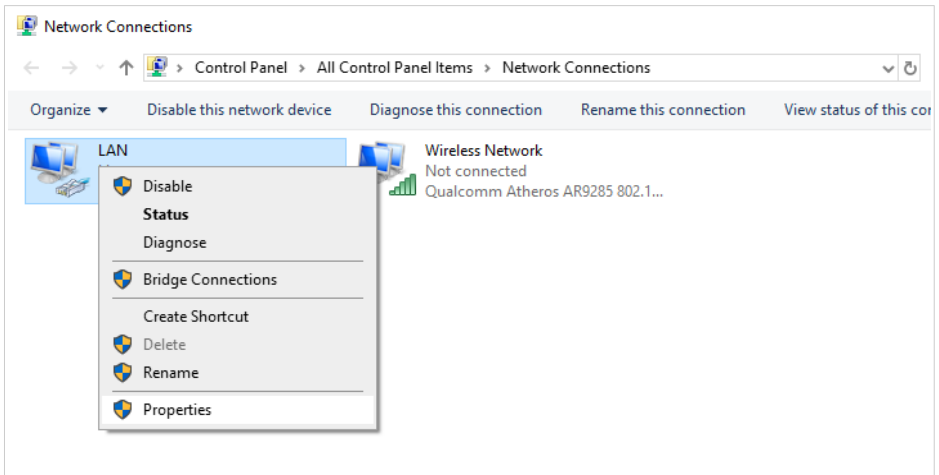


7. Click the **OK** button in the connection properties window.

Now you can connect to the web-based interface of DAP-600P for configuring all needed parameters. To gain access to an external network (to the Internet), you also need to specify the default gateway and the addresses of DNS servers.

## Configuring IP Address in 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. Select the **Use the following IP address** radio button and enter the value **192.168.0.51** in the **IP address** field. The **Subnet mask** field will be filled in automatically. Click the **OK** button.

Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

☐ Obtain an IP address automatically

☒ Use the following IP address:

IP address: 192 . 168 . 0 . 51

Subnet mask: 255 . 255 . 255 . 0

Default gateway: . . .

☐ Obtain DNS server address automatically

☒ 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.

Now you can connect to the web-based interface of DAP-600P for configuring all needed parameters. To gain access to an external network (to the Internet), you also need to specify the default gateway and the addresses of DNS servers.

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

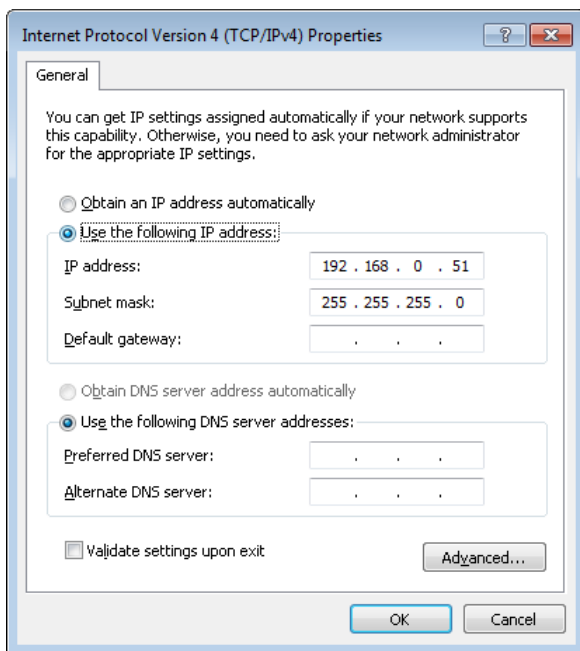
1. ***For a switch supporting PoE:*** connect an Ethernet cable between the PoE-enabled switch and the WAN port of the access point.
2. ***For a switch not supporting PoE or router:*** connect an Ethernet cable between the switch or router and any Ethernet port of the access point.
3. Connect the power adapter (12V DC, 1.5A, not included in the delivery package) to the power connector port on the back panel of the access point, then plug the power adapter into an electrical outlet or power strip.
4. 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.

Now you should configure your Wi-Fi adapter.

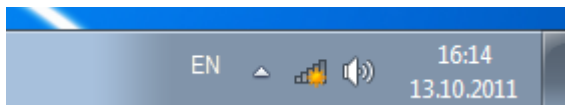
## ***Configuring Wi-Fi Adapter in OS Windows 7***

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. Select the **Use the following IP address** radio button and enter the value **192.168.0.51** in the **IP address** field. The **Subnet mask** field will be filled in automatically. Click the **OK** button.

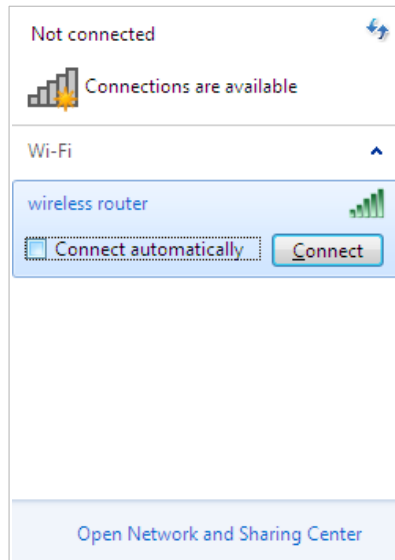


7. Click the **OK** button in the connection properties window.
8. To open the list of available wireless networks, select the icon of the wireless network connection and click the **Connect To** button or left-click the network icon in the notification area located on the right side of the taskbar.





9. In the opened window, in the list of available wireless networks, select the wireless network **DAP-600P** (for operating in the 2.4GHz band) or **DAP-600P-5G** (for operating in the 5GHz band) and click the **Connect** button.



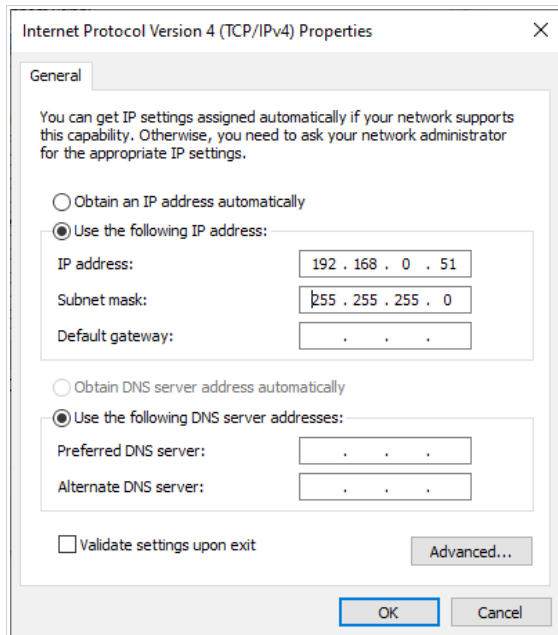
10. In the opened window, enter the network key (see WPS PIN on the barcode label on the bottom panel of the device) in the **Security key** field and click the **OK** button.
11. Wait for about 20-30 seconds. After the connection is established, the network icon will be displayed as the signal level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

Now you can connect to the web-based interface of DAP-600P for configuring all needed parameters. To gain access to an external network (to the Internet), you also need to specify the default gateway and the addresses of DNS servers.

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

## Configuring Wi-Fi Adapter in 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. Select the **Use the following IP address** radio button and enter the value **192.168.0.51** in the **IP address** field. The **Subnet mask** field will be filled in automatically. Click the **OK** button.

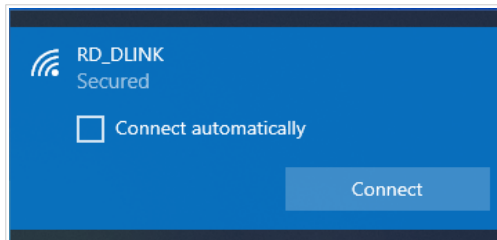


7. Click the **Close** button in the connection properties window.

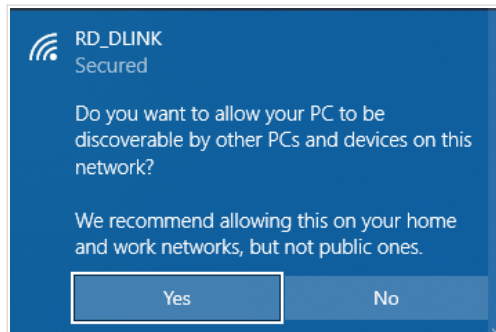
- To open the list of available wireless networks, select the icon of the wireless network connection and click the **Connect To** button or left-click the network icon in the notification area located on the right side of the taskbar.



- In the opened window, in the list of available wireless networks, select the wireless network **DAP-600P** (for operating in the 2.4GHz band) or **DAP-600P-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.

Now you can connect to the web-based interface of DAP-600P for configuring all needed parameters. To gain access to an external network (to the Internet), you also need to specify the default gateway and the addresses of DNS servers.

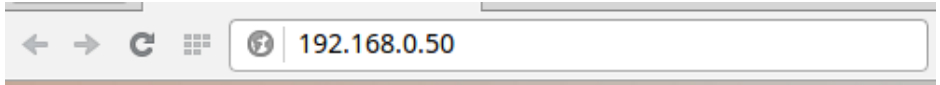


If you perform initial configuration of the access point via Wi-Fi connection, note that immediately after changing the wireless default settings of the access point you will need to reconfigure the wireless connection using the newly specified settings.

## CONFIGURING ACCESS POINT

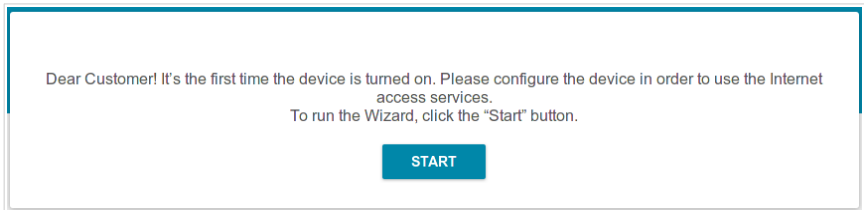
### Connecting to Web-based Interface

Start a web browser. In the address bar of the web browser, enter the IP address of the access point (by default, the following IP address is specified: **192.168.0.50**). Press the **Enter** key.

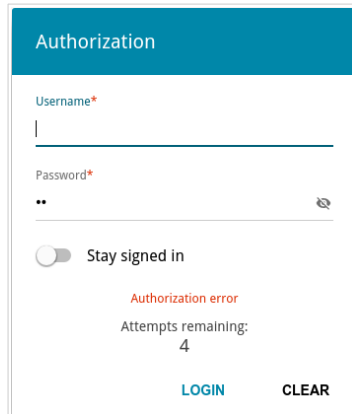


**!** If the error “*The page cannot be displayed*” (or “*Unable to display the page*”/“*Could not connect to remote server*”) occurs upon connecting to the web-based interface of the access point, make sure that you have properly connected the access point to your computer.

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 24).



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

The image shows a web-based login interface titled "Authorization". It features two input fields: "Username\*" and "Password\*", both with red asterisks indicating required fields. The "Username" field contains the text "admin". Below the password field is a toggle switch labeled "Stay signed in", which is currently turned off. A red error message "Authorization error" is displayed, followed by "Attempts remaining: 4". At the bottom, there are two buttons: "LOGIN" in blue and "CLEAR" in black.

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 access point and its software.

Summary

Device Information

Model:

DAP-600P

Hardware revision:

A1

Firmware version:

4.0.1

Build time:

Mon Sep 16 2019 4:43:49 PM MSK

UI version:

1.5.0.19f3001-embedded

Vendor:

D-Link Russia

Serial number:

1234567890ABC

Support:

[support@dlink.ru](mailto:support@dlink.ru)

Summary:

Root filesystem image for  
DAP\_600P\_MT7621AT

Uptime:

00:08:04

Device mode:

[Access Point](#)

Wi-Fi 5 GHz

Status:

On

Broadcasting:

On

Additional networks:

0

Network name (SSID):

DAP-600P-5G-BD26

Security:

WPA2-PSK

Wi-Fi 2.4 GHz

Status:

On

Broadcasting:

On

Additional networks:

0

Network name (SSID):

DAP-600P-BD26

Security:

WPA2-PSK

LAN

LAN IPv4:

192.168.0.50

LAN IPv6:

fd00::1/64

MAC address:

e4:6f:13:ac:bd:26

Wireless connections:

-

Wired connections:

10

LAN Ports

LAN1:

1000M-Full

LAN2:

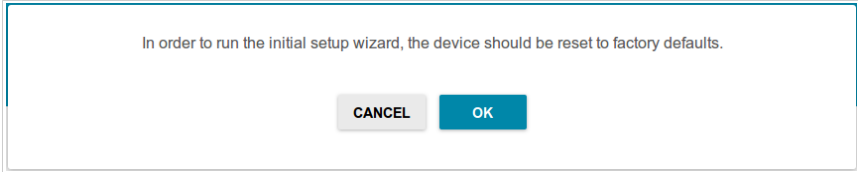
1000M-Full

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

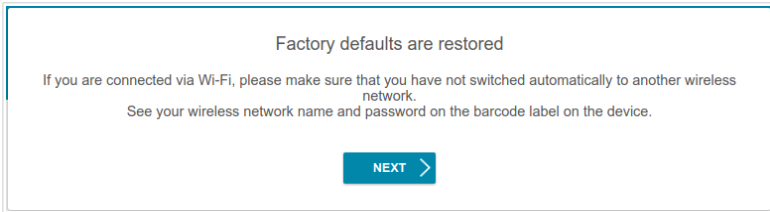
Other settings of the access point are available in the menu in the left part of the page. Go to the relevant section and select the needed page or run the wizard in the **Initial Configuration** section.

# Initial Configuration Wizard

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

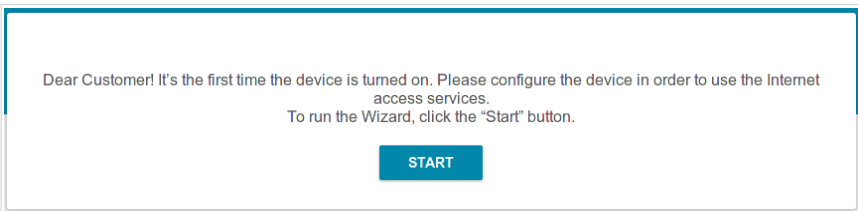


Click the **OK** button and wait until the factory default settings are restored.



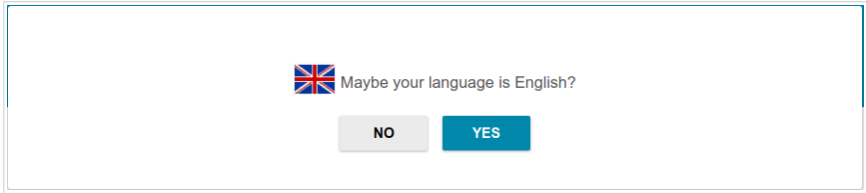
If you perform initial configuration of the access point via Wi-Fi connection, please make sure that you are connected to the wireless network of DAP-600P (see the WLAN name (SSID) in the *Default Settings* section, page 3) and click the **NEXT** button. Then click the **START** button.

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 the other language.



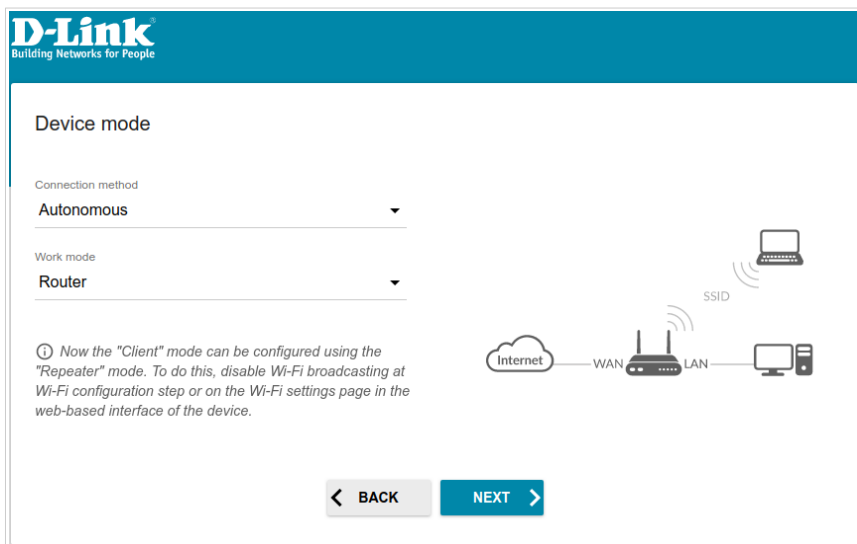
2. On the next page, click the **CONTINUE** button.

## Selecting Operation Mode

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

### Router

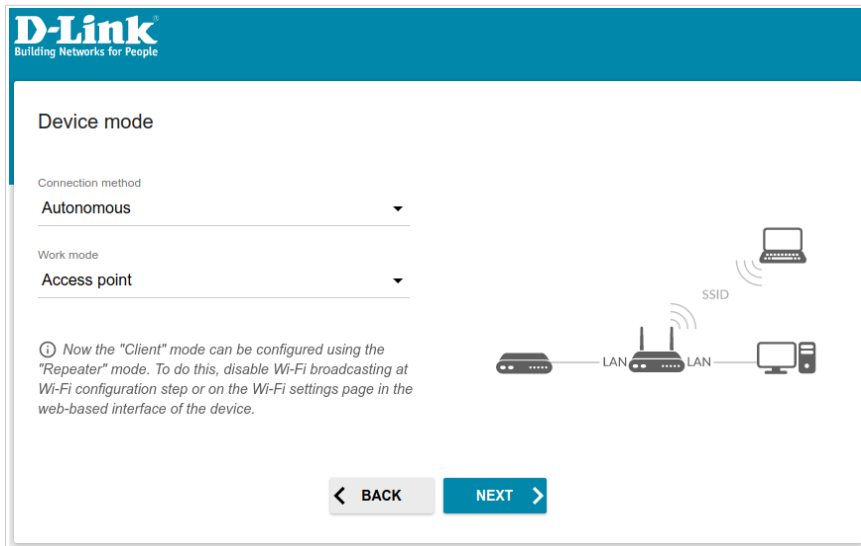
In order to connect your device to a wired ISP, on the **Device mode** page, from the **Connection method** list, select the **Autonomous** value. Then from the **Work mode** list, select the **Router** value. In this mode you can configure a WAN connection, set your own settings for the wireless network in the 2.4GHz and 5GHz bands, 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 **Autonomous** 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 **Autonomous** 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 **Autonomous** 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.

## Mesh Network Main Device (Master)

In order to configure DAP-600P as a main device of your Mesh network, from the **Connection method** list, select the **Super Mesh** value. Then from the **Device Role** list, select the **Master** value. From the **Frequency band** list, select the band where your Mesh network operates.

**!** The Super Mesh function cannot operate in both bands simultaneously. Select one of the bands (2.4GHz or 5GHz) for all devices of the configured network.

In order to connect your main device to a wired ISP, 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, and set your own password for access to the web-based interface of the device.

### Device mode

Connection method

Super Mesh

Device Role

Master

Work mode

Router

Frequency band

2.4 GHz

The Super Mesh function is designed to connect devices in one network. The connection can be wired or wireless.

The device acting as Master in the Super Mesh network is equivalent to a router in a usual network. One network can contain only one device acting as Master. If you already have such a device in your network, configure the present device to act as Slave.

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NEXT >

In order to connect your main device to a wireless ISP (WISP), 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.

## Mesh Network Subordinate Device (Slave)

In order to configure DAP-600P as a subordinate device of your Mesh network, from the **Connection method** list, select the **Super Mesh** value. Then from the **Device Role** list, select the **Slave** value. From the **Frequency band** list, select the band where your main device (in the Master role) operates.

Then a device in the Slave role is configured in the access point mode. 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.

### Device mode

Connection method  
**Super Mesh**

Device Role  
**Slave**

Frequency band  
**2.4 GHz**

ⓘ Select the band of the Wi-Fi network in which operates the device acting as Master.

The Super Mesh function is designed to connect devices in one network. The connection can be wired or wireless.

When the settings are applied, connect the AP (the device acting as Slave) to the LAN port of the router (the device acting as Master) via cable for 5-6 minutes. Make sure that the LED corresponding to the wireless network has lit up and is solid.

If needed, disconnect the AP from the router and move it to its worksite.

1

2

< BACK

NEXT >

## Changing LAN IPv4 Address

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

1. Select the **Automatic obtainment of IPv4 address** to let DAP-600P automatically obtain the LAN IPv4 address.


If you want to manually assign the LAN IPv4 address for DAP-600P, 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.



If the LAN IPv4 address of DAP-600P was changed, it may be necessary to change your PC's NIC settings.

### 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\*

192.168.0.50

Subnet mask\*

255.255.255.0


Gateway IP address


DNS IP address\*


8.8.8.8

Hostname\*

dlinkapa377.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./)

 BACK


NEXT 


2. Click the **NEXT** button.

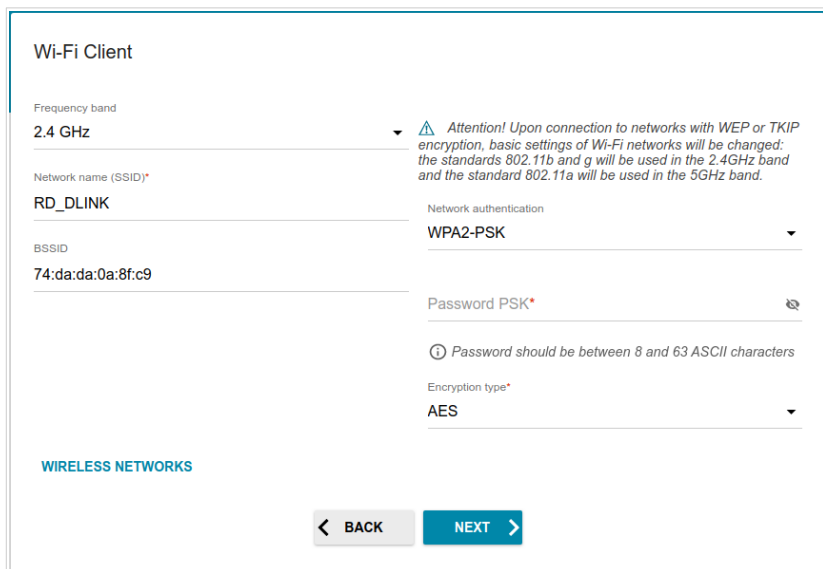
## Wi-Fi Client

This configuration step is available for the **WISP Repeater** and **Repeater** 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

BACK NEXT

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 (  ) 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\*

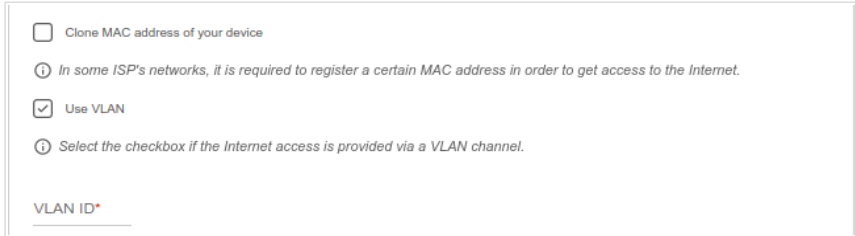
IP address\*

Subnet mask\*

Gateway IP address\*

DNS IP address\*

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



☐ Clone MAC address of your device

*ⓘ 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 **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 access point.
2. In the **Password** field, specify your own password for access to the wireless network or leave the value suggested by the access point (WPS PIN of the device, see the barcode label).
3. If the access point 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

USEUse the same parameters as on the root access point.

RESTOREYou can restore network 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 guest network

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

Network name\*

my wi-fi\_Guest

The number of characters should not exceed 32

☒ Open network

Max associated clients\*

0

☐ Enable shaping

6. In the **Network name** field, specify your own name for the guest wireless network or leave the value suggested by the access point.
7. If you want to create a password for access to the guest wireless network, deselect the **Open network** checkbox and fill in the **Password** field.
8. If you want to limit the bandwidth of the guest wireless network, select the **Enable shaping** checkbox and fill in the **Shaping** field.
9. Click the **NEXT** button.
10. On the **Wireless Network 5 GHz** page, specify needed settings for the wireless network in the 5GHz band and 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 **Admin 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>

Changing web-based interface password

For security reasons, please change the password used to access the device's settings.

Admin password\*

*① Password should be between 1 and 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 access point only after restoring the factory default settings via the hardware **RESET** button. This procedure wipes out all settings that you have configured for your access point.

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.

<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 access point'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

Mode of local IP address assignment

Static

IP address\*

192.168.0.50

Mask\*

255.255.255.0

Gateway IP address

Hostname

dlinkapa377.local

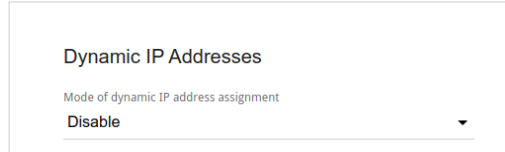
- 3. If needed, change the static IPv6 address of the access point's LAN interface. To do this, click the **IPv6** tab. In the **Local IPv6 Address** section, left-click the line of the IPv6 address. In the opened window, specify needed values in the **IPv6 address** and **Prefix** fields and click the **APPLY** button.

Local IPv6 Address

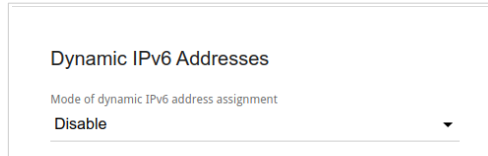
IPv6 address	Addressing Type
fd00::1/64	Static addressing



4. **IPv4 address assignment.** By default, the DHCP server of the device in the access point mode is disabled (the **Disable** value is selected from the **Mode of dynamic IP address assignment** drop-down list on the **IPv4** tab). As a rule, the DHCP server should be disabled when the device is used in the access point mode. If you need to specify other settings, change the parameters of the DHCP server.



5. **IPv6 address assignment.** By default, the DHCPv6 server of the device in the access point mode is disabled (the **Disable** value is selected from the **Mode of dynamic IPv6 address assignment** drop-down list on the **IPv6** tab). As a rule, the DHCPv6 server should be disabled when the device is used in the access point mode. If you need to specify other settings, change the parameters of the DHCPv6 server.



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

## SPECIFICATIONS\*

Hardware	
Processor	<ul style="list-style-type: none"> <li>MT7621AT (880MHz, dual core)</li> </ul>
RAM	<ul style="list-style-type: none"> <li>128MB, DDR3 SDRAM</li> </ul>
Flash	<ul style="list-style-type: none"> <li>16MB, SPI</li> </ul>
Interfaces	<ul style="list-style-type: none"> <li>10/100/1000BASE-T WAN port with PoE support</li> <li>10/100/1000BASE-T LAN port</li> </ul>
LEDs	<ul style="list-style-type: none"> <li>POWER / WLAN</li> <li>INTERNET</li> <li>LAN</li> </ul>
Buttons	<ul style="list-style-type: none"> <li>RESET button to restore factory default settings</li> </ul>
Antenna	<ul style="list-style-type: none"> <li>Four internal dual band antennas (3dBi gain)</li> </ul>
MIMO	<ul style="list-style-type: none"> <li>4 x 4, MU-MIMO</li> </ul>
Power connector	<ul style="list-style-type: none"> <li>Power input connector (12V DC, 1.5A)</li> </ul>

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

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

## Software

<b>Network functions</b>	<ul style="list-style-type: none"> <li>• DHCP server/relay</li> <li>• Advanced configuration of built-in DHCP server</li> <li>• Stateful/Stateless mode for IPv6 address assignment, IPv6 prefix delegation</li> <li>• Automatic obtainment of LAN IP address (for access point/repeater/client modes)</li> <li>• DNS relay</li> <li>• Dynamic DNS</li> <li>• Static IPv4/IPv6 routing</li> <li>• IGMP Proxy</li> <li>• 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>• 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> </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 filter</li> <li>• 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>
<b>VPN</b>	<ul style="list-style-type: none"> <li>• IPsec/PPTP/L2TP/PPPoE pass-through</li> <li>• PPTP/L2TP 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>

## Software

<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>• Bilingual web-based interface for configuration and management (Russian/English)</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>• SNMP agent (SNMPv2/v3)</li> <li>• Schedules for filters rules, automatic reboot, and enabling/disabling wireless network</li> <li>• Automatic upload of configuration file from ISP's server (Auto Provision)</li> </ul>
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## Wireless Module Parameters

<b>Standards</b>	<ul style="list-style-type: none"> <li>• IEEE 802.11ac Wave 2</li> <li>• IEEE 802.11a/b/g/n</li> </ul>
<b>Frequency range</b>  <i>The frequency range depends upon the radio frequency regulations applied in your country</i>	<ul style="list-style-type: none"> <li>• 2400 ~ 2483.5MHz</li> <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>• MAC filter</li> <li>• WPS (PBC/PIN)</li> </ul>

Wireless Module Parameters

Advanced functions

- Super Mesh function
- “Client” function (access point mode)  
Wireless network client  
Wireless network repeater
- “Client” function (router mode)  
WISP repeater
- WMM (Wi-Fi QoS)
- Information on connected Wi-Fi clients
- Advanced settings
- Smart adjustment of Wi-Fi clients
- Guest Wi-Fi / support of MBSSID
- Limitation of wireless network rate
- Periodic scan of channels, automatic switch to least loaded channel
- Support of 802.11ac (5GHz) and 802.11n (2.4GHz) TX Beamforming
- Wider bandwidth (up to 160MHz)
- Autonegotiation of channel bandwidth in accordance with environment conditions (20/40 Coexistence)
- Support of STBC

Wireless connection rate<sup>3</sup>

- 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): 6.5–600Mbps (MCS0–MCS30) to 800Mbps (QAM256)
- IEEE 802.11n (5GHz): from 6.5 to 600Mbps (from MCS0 to MCS30)
- IEEE 802.11ac (5GHz): from 6.5 to 1732Mbps (from MCS0 to MSC9)

<sup>3</sup> Maximum wireless signal rate is derived from IEEE standard 802.11ac and 802.11n specifications. In order to get the rate of 800Mbps in the 2.4GHz band, a Wi-Fi client should support MIMO 4x4 and QAM256 modulation scheme. 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

*The maximum value of the transmitter output power depends upon the radio frequency regulations applied in your country*

- 802.11a (typical at room temperature 25 °C)  
17dBm at 6, 54Mbps
- 802.11b (typical at room temperature 25 °C)  
17dBm at 1, 11Mbps
- 802.11g (typical at room temperature 25 °C)  
17dBm at 6, 54Mbps
- 802.11n (typical at room temperature 25 °C)  
17dBm at MCS0~6/8~14  
16dBm at MCS7/15
- 802.11ac (typical at room temperature 25 °C)  
17dBm at MCS0~6  
16dBm at MCS7  
15dBm at MCS8~9

### Receiver sensitivity

- 802.11a (typical at PER < 10% (1000-byte PDUs) at room temperature 25 °C)  
-82dBm at 6Mbps  
-81dBm at 9Mbps  
-79dBm at 12Mbps  
-77dBm at 18Mbps  
-74dBm at 24Mbps  
-70dBm at 36Mbps  
-66dBm at 48Mbps  
-65dBm at 54Mbps
- 802.11b (typical at PER = 8% (1000-byte PDUs) at room temperature 25 °C)  
-90dBm at 1Mbps  
-90dBm at 2Mbps  
-88dBm at 5.5Mbps  
-86dBm at 11Mbps
- 802.11g (typical at PER < 10% (1000-byte PDUs) at room temperature 25 °C)  
-82dBm at 6Mbps  
-81dBm at 9Mbps  
-79dBm at 12Mbps  
-77dBm at 18Mbps  
-74dBm at 24Mbps  
-70dBm at 36Mbps  
-66dBm at 48Mbps  
-65dBm at 54Mbps
- 802.11n (typical at PER = 10% (1000-byte PDUs) at room temperature 25 °C)  
HT20  
-82dBm at MCS0/8

Wireless Module Parameters

- 79dBm at MCS1/9
- 77dBm at MCS2/10
- 74dBm at MCS3/11
- 70dBm at MCS4/12
- 66dBm at MCS5/13
- 65dBm at MCS6/14
- 64dBm at MCS7/15
- HT40
- 79dBm at MCS0/8
- 76dBm at MCS1/9
- 74dBm at MCS2/10
- 71dBm at MCS3/11
- 67dBm at MCS4/12
- 63dBm at MCS5/13
- 62dBm at MCS6/14
- 61dBm at MCS7/15
- 802.11ac (typical at PER = 10% (1000-byte PDUs) at room temperature 25 °C)
- HT20
- 82dBm at MCS0
- 79dBm at MCS1
- 77dBm at MCS2
- 74dBm at MCS3
- 70dBm at MCS4
- 66dBm at MCS5
- 65dBm at MCS6
- 64dBm at MCS7
- 56dBm at MCS8
- HT40
- 79dBm at MCS0
- 76dBm at MCS1
- 74dBm at MCS2
- 71dBm at MCS3
- 67dBm at MCS4
- 63dBm at MCS5
- 62dBm at MCS6
- 61dBm at MCS7
- 56dBm at MCS8
- 54dBm at MCS9
- HT80
- 76dBm at MCS0
- 73dBm at MCS1
- 71dBm at MCS2
- 68dBm at MCS3
- 64dBm at MCS4
- 60dBm at MCS5
- 59dBm at MCS6
- 58dBm at MCS7
- 53dBm at MCS8
- 51dBm at MCS9

Wireless Module Parameters

Modulation schemes	<ul style="list-style-type: none"><li>• 802.11a: BPSK, QPSK, 16QAM, 64QAM with OFDM</li><li>• 802.11b: DQPSK, DBPSK, DSSS, CCK</li><li>• 802.11g: BPSK, QPSK, 16QAM, 64QAM with OFDM</li><li>• 802.11n: BPSK, QPSK, 16QAM, 64QAM, 256QAM with OFDM</li><li>• 802.11ac: BPSK, QPSK, 16QAM, 64QAM, up to 256QAM with OFDM</li></ul>
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Physical Parameters

Dimensions (L x W x H)	<ul style="list-style-type: none"><li>• 213 x 213 x 38 mm (8 x 8 x 1.5 in)</li></ul>
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Operating Environment

Power	<ul style="list-style-type: none"><li>• External DC power adapter 12V/1.5A (not included in the delivery package)</li><li>• PoE: 802.3at (16W), 48V/0.5A</li></ul>
Temperature	<ul style="list-style-type: none"><li>• Operating: from 0 to 40 °C</li><li>• Storage: from -20 to 65 °C</li></ul>
Humidity	<ul style="list-style-type: none"><li>• Operating: from 10% to 90% (non-condensing)</li><li>• Storage: from 5% 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>