D-Link®

DWR-921

4G LTE Router

BEFORE YOU BEGIN

Delivery Package

- Router DWR-921
- Power adapter DC 12V/1A
- Ethernet cable (CAT 5)
- Two detachable LTE/3G antennas
- "*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).

> **!** **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

Domain name of device	`dlinkrouter.local.`
IP address of device	`192.168.0.1`
Username (login)	`admin`
Password	`admin`
Name of wireless network (SSID)	`DWR-921`
Network key (PSK)	see WPS PIN on the barcode label on the bottom panel of the device

! Router DWR-921 with default settings cannot connect to the Internet. To get started, please set your own password for access to the web-based interface and change the WLAN name (SSID); then, if needed, configure other settings recommended by your ISP.

System Requirements and Equipment

- A computer with any operating system that supports a web browser.
- A web browser to access the web-based interface of the router:
  - Apple Safari 8 and later
  - Google Chrome 48 and later
  - Microsoft Internet Explorer 10 and later
  - Microsoft Edge 20.10240 and later
  - Mozilla Firefox 44 and later
  - Opera 35 and later.
- A NIC (Ethernet or Wi-Fi adapter) to connect to the router.
- An 802.11b, g, or n Wi-Fi adapter to create a wireless network.
- An active SIM card (when it is necessary to connect to the Internet via mobile operators' networks)[1].

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1 Contact your operator to get information on the service coverage and fees.

CONNECTING TO PC

PC with Ethernet Adapter

1. Insert a SIM card into the slot on the back panel of the router with the gold contacts facing downwards 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 an Ethernet cable between any of LAN ports located on the back panel of the router and the Ethernet port of your PC.

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 **POWER ON/OFF** button on its back panel.

Make sure that your Ethernet adapter is configured to obtain an IP address automatically (as DHCP client).
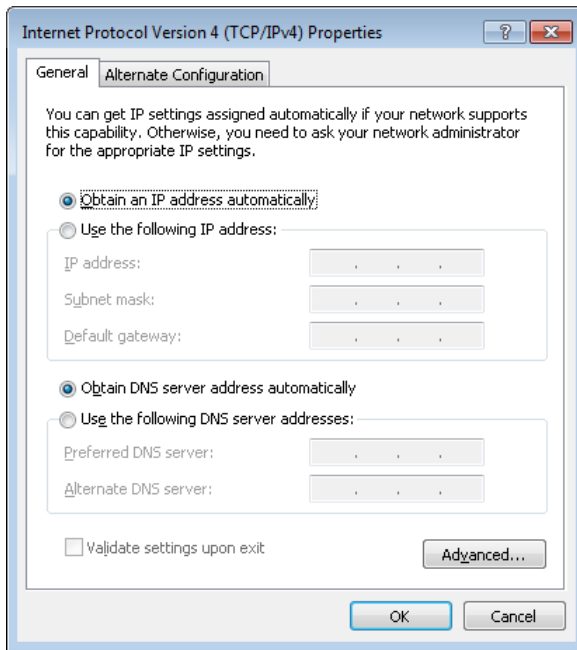
Obtaining IP Address Automatically in OS Windows 7

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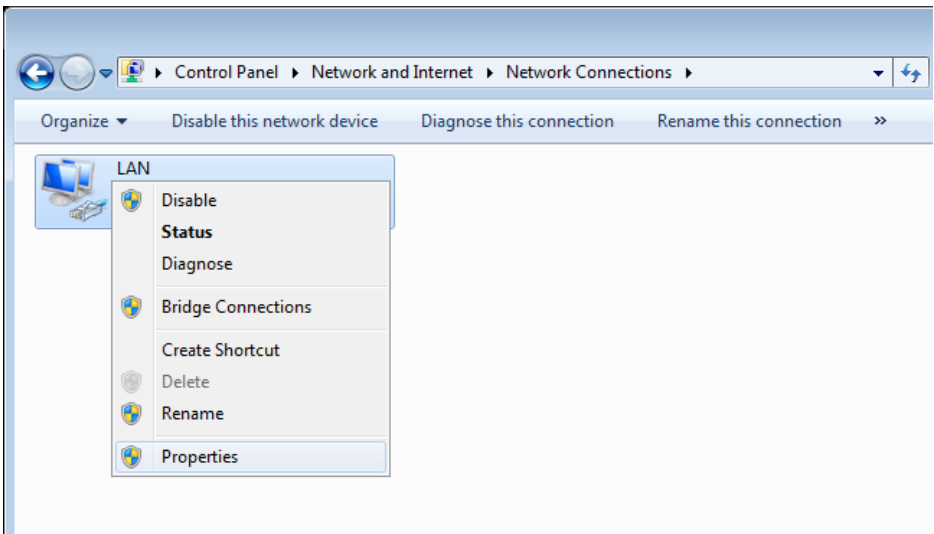
5. In the **Local Area Connection Properties** window, on the **Networking** tab, select the **Internet Protocol Version 4 (TCP/IPv4)** line. Click the **Properties** button.

6. Select the **Obtain an IP address automatically** and **Obtain DNS server address automatically** radio buttons. Click the **OK** button.

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

Now your computer is configured to obtain an IP address automatically.

PC with Wi-Fi Adapter

1. Insert a SIM card into the slot on the back panel of the router with the gold contacts facing downwards 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 power cord to the power connector port on the back panel of the router, then plug the power adapter into an electrical outlet or power strip.

3. Turn on the router by pressing the **POWER ON/OFF** button on its back panel.

4. Make sure that your Wi-Fi adapter 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.

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

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 **Obtain an IP address automatically** and **Obtain DNS server address automatically** radio buttons. Click the **OK** button.
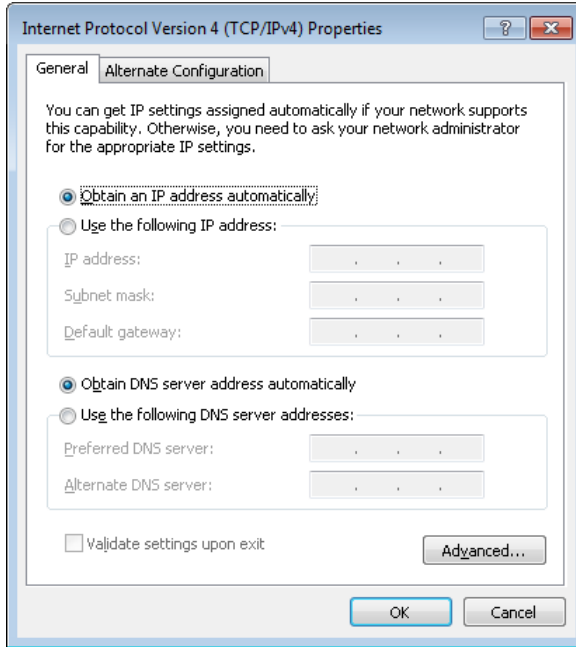
7. Click the **OK** button in the connection properties window.

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.
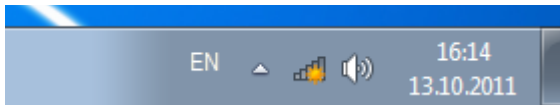
9. In the opened window, in the list of available wireless networks, select the wireless network **DWR-921** and click the **Connect** button.
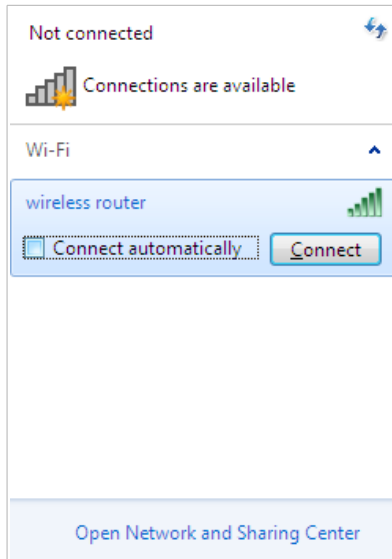
10. In the opened window, enter the network key (see WPS PIN on the barcode label on the bottom panel of the device) in the **Security key** field and click the **OK** button.

11. Wait for about 20-30 seconds. After the connection is established, the network icon will be displayed as the signal level scale.

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

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**).
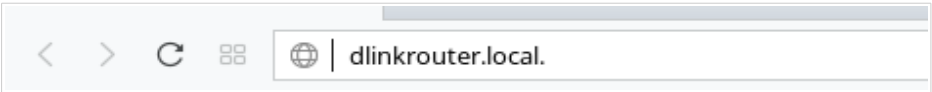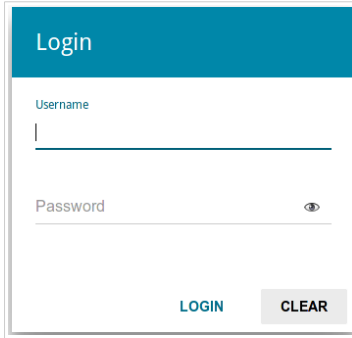

! If the error "*The page cannot be displayed*" (or "*Unable to display the page*"/"*Could not connect to remote server*") occurs upon connecting to the web-based interface of the router, make sure that you have properly connected the router to your computer.

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 16).
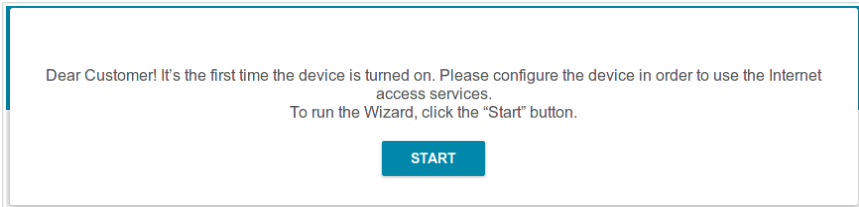
If you configured the device previously, after access to the web-based interface the login page opens. Enter the username (`admin`) in the **Username** field and the password you specified in the **Password** field, then click the **LOGIN** button.
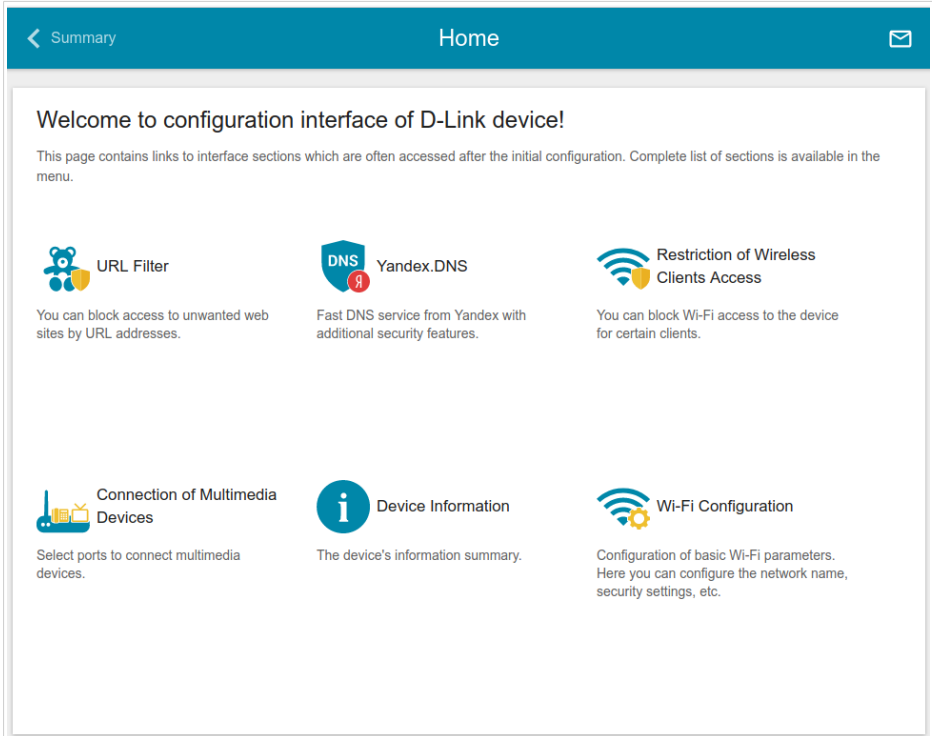
The **Summary** page displays general information on the router and its software.

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.

> In order to run the initial setup wizard, the device should be reset to factory defaults.
>
> CANCEL   OK
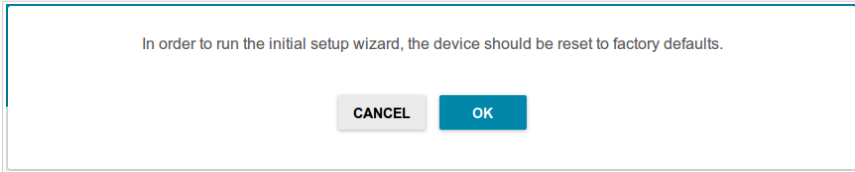
Click the **OK** button and wait until the factory default settings are restored.

> Factory defaults are restored
>
> If you are connected via Wi-Fi, please make sure that you have not switched automatically to another wireless network.
> See your wireless network name and password on the barcode label on the device.
>
> NEXT ›
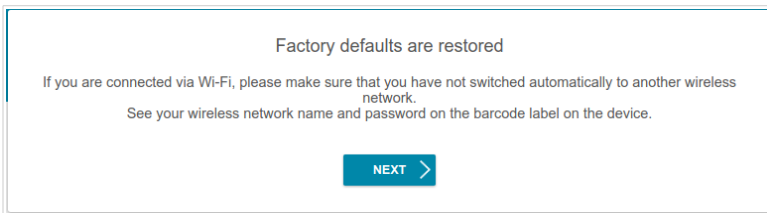
If you perform initial configuration of the router via Wi-Fi connection, please make sure that you are connected to the wireless network of DWR-921 (see the WLAN name (SSID) in the *Default Settings* section, page 3) and click the **NEXT** button. Then click the **START** button.

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

> Dear Customer! It's the first time the device is turned on. Please configure the device in order to use the Internet access services.
> To run the Wizard, click the "Start" button.
>
> START
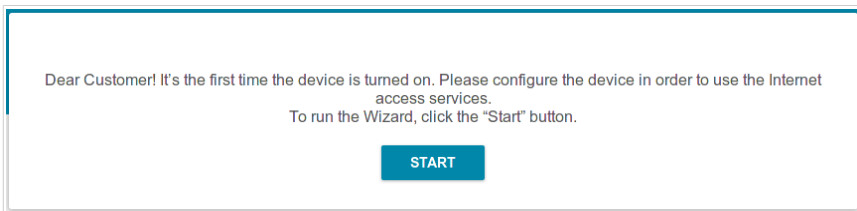
1. Click **YES** in order to leave the current language of the web-based interface or click **NO** to select another language.
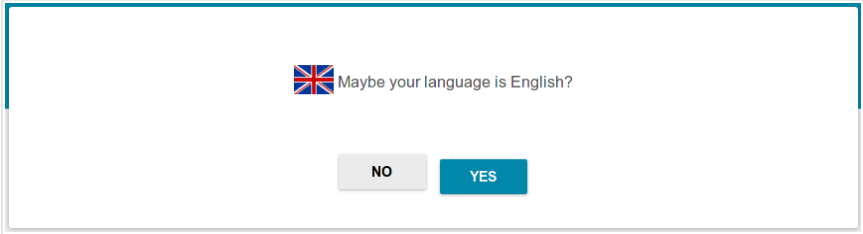
2. On the next page, click the **CONTINUE** button.

Selecting Operation Mode

In order to connect your device to a wired ISP, on the **Device mode** page, from the **Connection method** list, select the **Wired connection** value. Then from the **Work mode** list select the **Router** value. In this mode you can configure a WAN connection, set your own settings for the wireless network, configure LAN ports to connect an STB or VoIP phone, and set your own password for access to the web-based interface of the device.
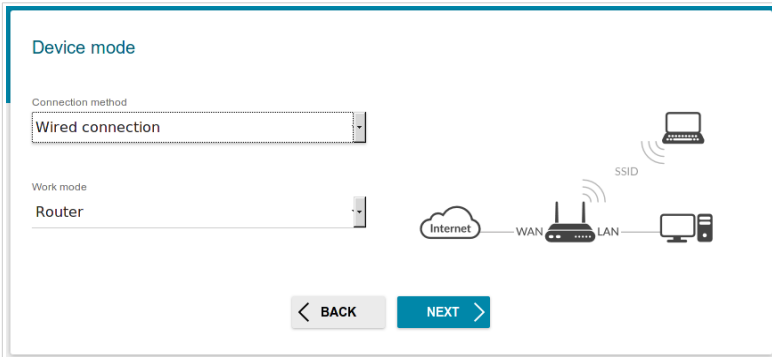
In order to connect your device to the network of a 3G or LTE operator, on the **Device mode** page, from the **Connection method** list, select the **3G/LTE modem** value. In this mode you can configure a 3G/LTE WAN connection, set your own settings for the wireless network, and set your own password for access to the web-based interface of the device.
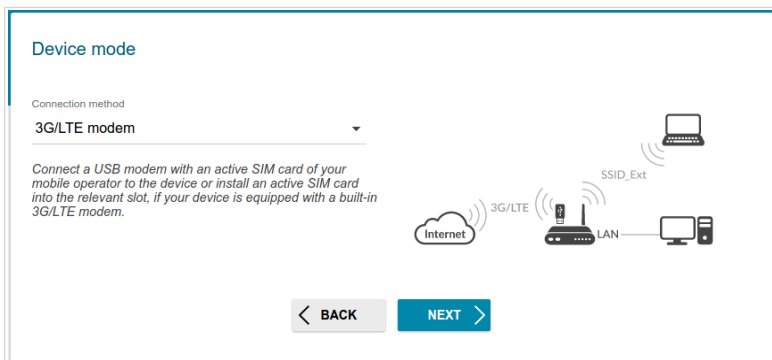
In order to connect your device to a wireless ISP (WISP), on the **Device mode** page, from the **Connection method** list, select the **Wi-Fi** value. Then from the **Work mode** list select the **WISP Repeater** value. In this mode you can connect your device to another access point, configure a WAN connection, set your own settings for the wireless network, configure LAN ports to connect an STB or VoIP phone, and set your own password for access to the web-based interface of the device.

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

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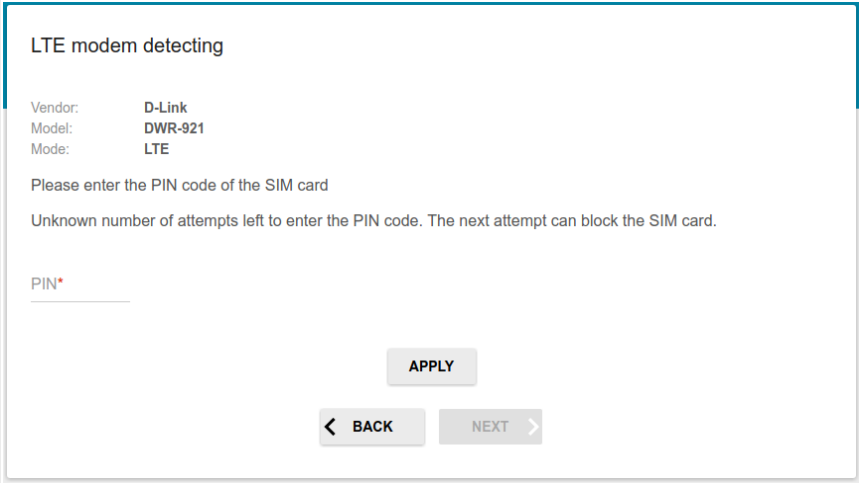
In order to let wired PCs connected to your device access the network of a wireless router, on the **Device mode** page, from the **Connection method** list, select the **Wi-Fi** value. Then from the **Work mode** list select the **Client** value. In this mode you can change the LAN IP address, connect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

When the operation mode is selected, click the **NEXT** button.

Creating LTE WAN Connection

This configuration step is available for the **3G/LTE modem** 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.

LTE modem detecting

Vendor: **D-Link**
Model: **DWR-921**
Mode: **LTE**

Please enter the PIN code of the SIM card
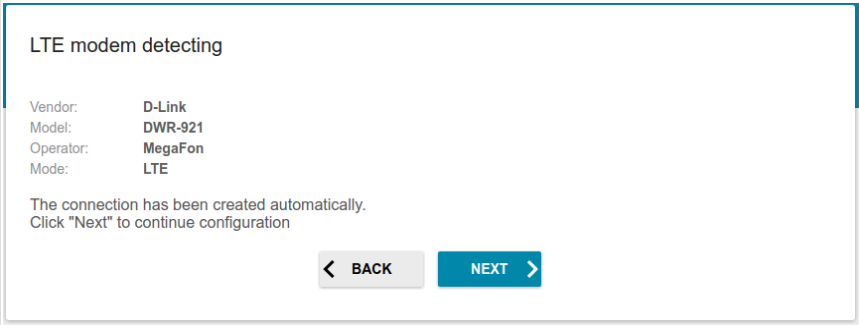
Unknown number of attempts left to enter the PIN code. The next attempt can block the SIM card.

PIN*

APPLY

< BACK   NEXT >

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

LTE modem detecting

Vendor: **D-Link**
Model: **DWR-921**
Operator: **MegaFon**
Mode: **LTE**

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 **Internet connection type** page, configure all needed settings and 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-921 automatically obtain the LAN IPv4 address.

> **!** If the router obtains the LAN IPv4 address automatically, then after finishing the Wizard you can access the web-based interface using the domain name (by default, `dlinkrouter.local`) with a dot at the end.

If you want to manually assign the LAN IPv4 address for DWR-921, do not select the **Automatic obtainment of IPv4 address** checkbox and fill in the **IP address** and **Netmask** 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.

2. 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, in the **Wireless Networks** section, select the network to which you want to connect. 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** button.

2. If a password is needed to connect to the selected network, fill in the relevant field.

If you connect to a hidden network, from the **Connecting to network** list select the **Connect to hidden network** value. Enter the network name to 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, from the **Connection type** list, select the connection type used by your ISP and fill in the fields displayed on the page.

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

IP address*
Netmask*
Gateway IP address*
DNS IP address*

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

IP address*
Prefix*
Gateway 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**, **Netmask**, **Gateway IP address**, and **DNS IP address**.

☐ Without authorization
Username*
Password* 👁

IP address*
Netmask*
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**, **Netmask**, **Gateway IP address**, and **DNS IP address**.

```
┌──────────────────────────────────────────────────────┐
│   ☑  Without authorization                             │
│                                                        │
│   Username                                             │
│   ──────────────────────────────────────────────────  │
│                                                        │
│   Password                                         🔒  │
│   ──────────────────────────────────────────────────  │
│                                                        │
│   VPN server address*                                  │
│   ──────────────────────────────────────────────────  │
│                                                        │
│   IP address*                                          │
│   ──────────────────────────────────────────────────  │
│                                                        │
│   Netmask*                                             │
│   ──────────────────────────────────────────────────  │
│                                                        │
│   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 **3G/LTE modem**, **Router**, **Access point**, **WISP Repeater**, and **Repeater** modes.

1. On the **Wireless Network 2.4 GHz** page, in the **Network name** field, specify your own name for the wireless network or leave the value suggested by the router.

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

3. You can restore the parameters of the wireless network specified before resetting to factory defaults. To do this, click the **RESTORE** button.

4. If you want to create an additional wireless network[2] isolated from your LAN, select the **Enable guest network** checkbox (available for the **3G/LTE modem**, **Router**, and **WISP Repeater** modes only).

☑ Enable guest network

ⓘ *Guest Wi-Fi network allows connection to your device and getting access to the Internet.*

⚠ *Attention! In the current FW version traffic of your LAN will not be isolated from users of the guest network. Please use this option only if you trust your guest users.*

Network name*

☑ Open network
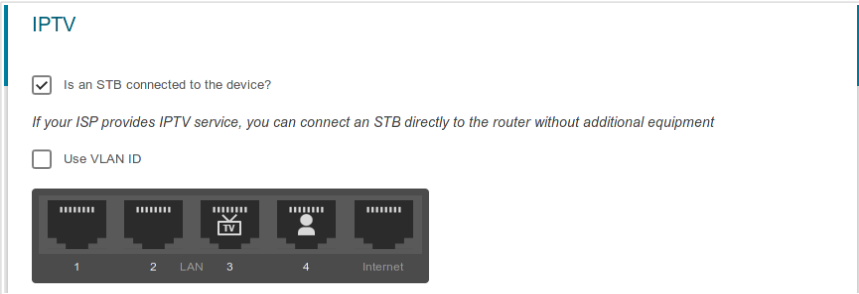
Max associated clients*

0

5. In the **Network name** field, specify your own name for the guest wireless network or leave the value suggested by the router.

6. 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.

7. Click the **NEXT** button.

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2   This function will be implemented in further versions of the firmware.

Configuring LAN Ports for IPTV/VoIP

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

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

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 **In an IP phone connected to the device** checkbox.

6. Select a free LAN port for connecting your IP phone.

7. If the VoIP service is provided via a VLAN channel, select the **Use VLAN ID** checkbox and fill in the **VLAN ID** field.

8. Click the **NEXT** button.

Changing Web-based Interface Password

On this page you should change the default administrator password. You may set any password except `admin`. Use digits, Latin letters (uppercase and/or lowercase), and other characters available in the US keyboard layout.[3]

```
Changing web-based interface password

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

Password                                      👁

ⓘ Password should be between 1 and 31 ASCII characters

                                     ‹ BACK        NEXT ›
```

!   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.

---

3   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 **Subnet mask** fields in the **Local IP Address** section.

    Local IP Address
    IP address*
    192.168.0.1

    Subnet mask*
    255.255.255.0

    Device domain name
    dlinkrouter.local

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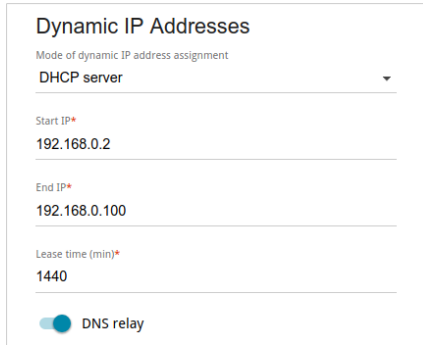
    Local IPv6 Address
    Mode of local IPv6 address assignment
    Prefix delegation

    IPv6 address
    fd01::1

    Prefix
    64

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

<div align="center">

Dynamic IP Addresses
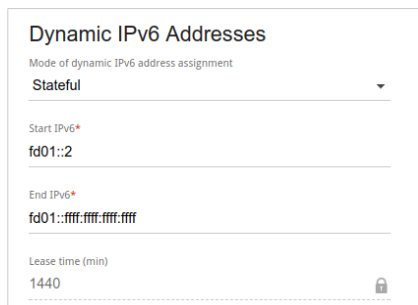
Mode of dynamic IP address assignment
DHCP server   ▾

Start IP*
192.168.0.2

End IP*
192.168.0.100

Lease time (min)*
1440

🔵 DNS relay

</div>

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

<div align="center">

Dynamic IPv6 Addresses

Mode of dynamic IPv6 address assignment
Stateful   ▾

Start IPv6*
fd01::2

End IPv6*
fd01::ffff:ffff:ffff:ffff

Lease time (min)
1440   🔒

</div>

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

SPECIFICATIONS*

Hardware		
Processor	·	MT7620N (600MHz)
Flash	·	16MB, SPI
Interfaces	· · ·	Slot for SIM card (mini-SIM) 10/100BASE-TX WAN port 4 10/100BASE-TX LAN ports
LEDs	· · · · · · ·	SIGNAL STRENGTH SMS LAN POWER 2G/3G 4G WLAN
Buttons	· · ·	POWER ON/OFF button to power on/power off WPS button to set up wireless connection RESET button to restore factory default settings
Antenna	· ·	Two detachable LTE/3G antennas (3dBi gain) Two internal Wi-Fi antennas (3dBi gain)
MIMO	·	2 x 2
Power connector	·	Power input connector (DC)

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* The device features are subject to change without notice. For the latest versions of the firmware and relevant documentation, visit www.dlink.ru.

Software	
WAN connection types	· LTE · PPPoE · IPv6 PPPoE · PPPoE Dual Stack · Static IPv4 / Dynamic IPv4 · Static IPv6 / Dynamic IPv6 · PPPoE + Static IP (PPPoE Dual Access) · PPPoE + Dynamic IP (PPPoE Dual Access) · PPTP/L2TP + Static IP · PPTP/L2TP + Dynamic IP
Network functions	· Support of IEEE 802.1X for Internet connection · DHCP server/relay · Stateful/Stateless mode for IPv6 address assignment, IPv6 prefix delegation · Automatic obtainment of LAN IP address (for access point/repeater/client modes) · DNS relay · Dynamic DNS · Static IP routing · Static IPv6 routing · IGMP Proxy · RIP · Support of UPnP IGD · Support of VLAN · WAN ping respond · Support of SIP ALG · Support of RTSP · WAN failover · LAN/WAN conversion · Autonegotiation of speed, duplex mode, and flow control/Manual speed and duplex mode setup for each Ethernet port
Firewall functions	· Network Address Translation (NAT) · Stateful Packet Inspection (SPI) · IP filter · IPv6 filter · MAC filter · URL filter · DMZ · Prevention of ARP and DDoS attacks · Virtual servers · Built-in Yandex.DNS web content filtering service
VPN	· IPsec/PPTP/L2TP/PPPoE pass-through · IPsec tunnels

Software	
Management	· Local and remote access to settings through TELNET/WEB (HTTP/HTTPS) · Bilingual web-based interface for configuration and management (Russian/English) · Notification on connection problems and auto redirect to settings · Firmware update via web-based interface · Automatic notification on new firmware version · Saving/restoring configuration to/from file · Support of logging to remote host · Automatic synchronization of system time with NTP server and manual time/date setup · Ping utility · Traceroute utility · TR-069 client · SNMP agent

LTE Module Parameters	
LTE connection rate[4]	· Downlink: up to 150Mbps · Uplink: up to 50Mbps
Functions	· Auto connection to available type of supported network (4G/3G/2G) · Auto configuration of connection upon plugging in SIM card · Enabling/disabling PIN code check, changing PIN code · Sending/receiving/reading/removing SMS messages[5]

4   Data rates are theoretical. Data transfer rate depends on network capacity and signal strength.
5   This function will be implemented in further versions of the firmware.

Wireless Module Parameters	
Standards	· IEEE 802.11b/g/n
Frequency range	· 2400 ~ 2483.5MHz
Wireless connection security	· WEP · WPA/WPA2 (Personal/Enterprise) · MAC filter · WPS (PBC/PIN)
Advanced functions	· Support of client mode · WMM (Wi-Fi QoS) · Information on connected Wi-Fi clients · Advanced settings · Guest Wi-Fi[6] / support of MBSSID
Wireless connection rate	· IEEE 802.11b: 1, 2, 5.5, and 11Mbps · IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, and 54Mbps · IEEE 802.11n: from 6.5 to 300Mbps (from MCS0 to MCS15)
Transmitter output power *The maximum value of the transmitter output power depends upon the radio frequency regulations applied in your country*	· 15dBm
Receiver sensitivity	· 802.11b -86dBm at 11Mbps · 802.11g -81dBm at 54Mbps · 802.11n HT20 -71dBm at MCS15 HT40 -67dBm at MCS15
Modulation schemes	· 802.11b: DSSS, BPSK, QPSK, CCK · 802.11g: OFDM · 802.11n: OFDM

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6   This function will be implemented in further versions of the firmware.

Physical Parameters	
Dimensions (L x W x H)	· 190 x 112 x 22 mm (7.5 x 4.4 x 0.9 in)
Weight	· 295 g (0.7 lb)

Operating Environment	
Power	· Output: 12V DC, 1A
Temperature	· Operating: from 0 to 40 °C · Storage: from -10 to 70 °C
Humidity	· Operating: from 10% to 90% (non-condensing) · Storage: from 0% to 95% (non-condensing)

SAFETY RULES AND CONDITIONS

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

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

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

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

The service life of the device is 2 years.

TECHNICAL SUPPORT

You can find software updates and user documentation on our website.

D-Link provides its customers with free support within the product's warranty period.

Customers can contact the technical support group by phone or by e-mail/Internet.

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

http://www.dlink.com/corporate/worldwideoffices/