



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).

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 2.4GHz DWR-956

network (SSID) 5GHz DWR-956-5G

see WPS PIN on the barcode label on the bottom panel of

the device

Router DWR-956 with default settings cannot connect to the Internet. To get started, please set your own password for access to the webbased 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 802.11a, 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)¹.

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

CONNECTING TO PC

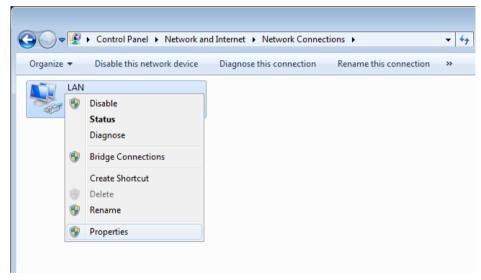
PC with Ethernet Adapter

- 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.

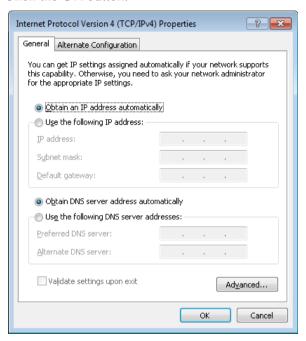
Then make sure that your PC is configured to obtain an IP address automatically (as DHCP client).

Obtaining IP Address Automatically (OS Windows 7)

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



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



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

PC with Wi-Fi Adapter

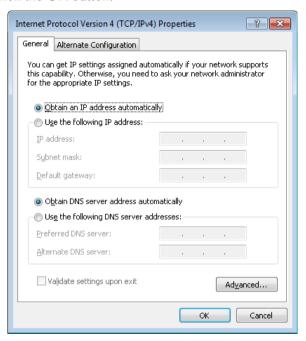
- 1. *To connect via built-in LTE modem*: insert a SIM card into the slot on the right side panel of the router with the gold contacts facing towards the front of the device and gently push until it clicks.
- If you need to connect a SIM card or change it to another one when the router is powered on, 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).

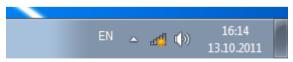
Obtaining IP Address Automatically and Connecting to Wireless Network (OS Windows 7)

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

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



- 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.



- 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**).

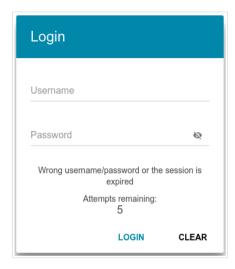


If the error "The page cannot be displayed" (or "Unable to display the page"/"Could not connect to remote server") occurs upon connecting to the web-based interface of the router, make sure that you have properly connected the router to your computer.

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).

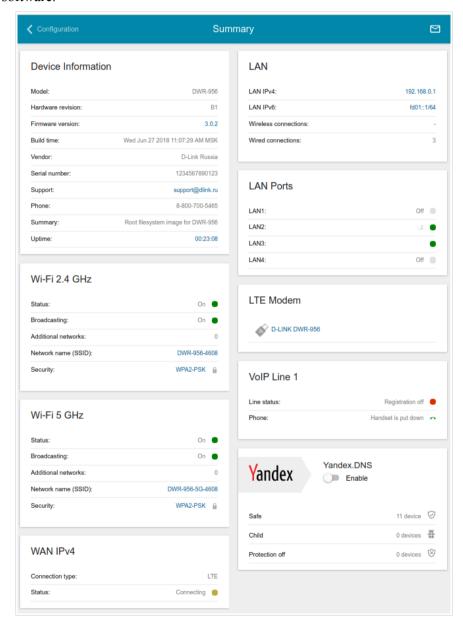


If you configured the device previously, after access to the web-based interface the login page opens. Enter the username (admin) in the **Username** field and the password you specified in the **Password** field, then click the **LOGIN** button

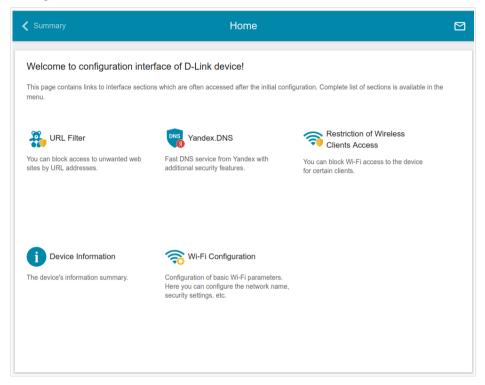


If you enter a wrong password several times, the web-based interface will be blocked for a while. Please wait for one minute and reenter the password you specified.

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



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

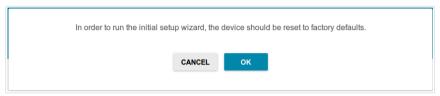


The web-based interface of the router is bilingual (English/Russian). You can select the needed language upon the initial configuration of the web-based interface of the router or in the **System / Configuration** section of the menu.

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

Initial Configuration Wizard

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

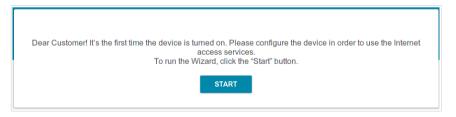


Click the **OK** button and wait until the factory default settings are restored.



If you perform initial configuration of the router via Wi-Fi connection, please make sure that you are connected to the wireless network of 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.



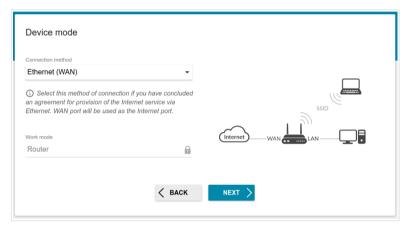
1. Click **YES** in order to leave the current language of the web-based interface or click **NO** to select another language.



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

Selecting Operation Mode

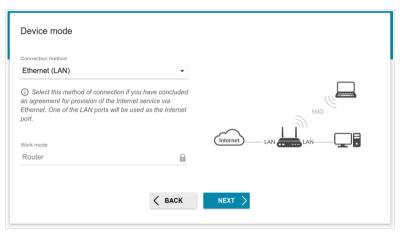
In order to connect your device to a wired ISP, on the **Device mode** page, from the **Connection method** list, select the **Ethernet (WAN)** value. In this mode you can configure a WAN connection, set your own settings for the wireless network in the 2.4GHz and 5GHz bands, configure LAN ports to connect an STB or VoIP phone, and set your own password for access to the web-based interface of the device.



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 an 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 private Ethernet line, on the **Device mode** page, from the **Connection method** list, select the **Ethernet (LAN)** 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.

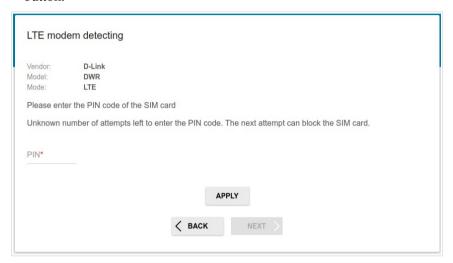


When the operation mode is selected, click the **NEXT** button.

Creating LTE WAN Connection

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

 If the PIN code check is enabled for the SIM card inserted into the builtin modem, enter the PIN code in the PIN field and click the APPLY button



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



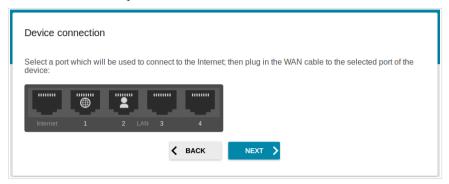
3 Click the **NEXT** button

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.

Configuring LAN Port as WAN Port

This configuration step is available for the **Ethernet (LAN)** 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.

Configuring Wired WAN Connection

This configuration step is available for the **Ethernet (WAN)** and **Ethernet (LAN)** 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.

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*	Ø
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*	iQ.
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	a
VPN server address*	
IP address*	
Netmask*	
Gateway IP address*	
DNS IP address*	

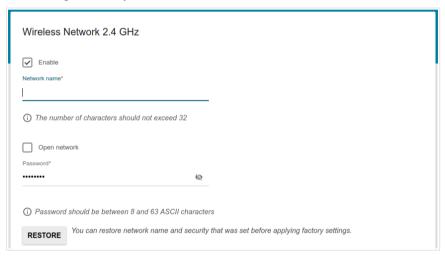
- 2. If your ISP uses MAC address binding, select the **Clone MAC address of your device** checkbox.
- 3. If the Internet access is provided via a VLAN channel, select the **Use VLAN** checkbox and fill in the **VLAN ID** field.

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*

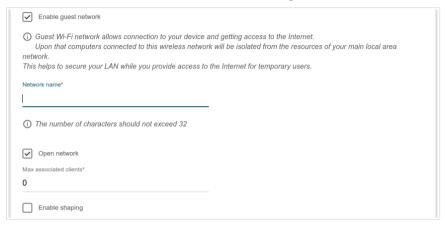
4. Click the **NEXT** button.

Configuring Wireless Network

- 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. 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 isolated from your LAN in the 2.4GHz band, select the **Enable guest network** checkbox.



- 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. If you want to limit the bandwidth of the guest wireless network, select the **Enable shaping** checkbox and fill in the **Shaping** field.
- 8 Click the **NEXT** button
- 9. On the **Wireless Network 5 GHz** page, specify needed settings for the wireless network in the 5GHz band and click the **NEXT** button

Configuring LAN Ports for IPTV/VoIP

This configuration step is available for the **Ethernet (WAN)** and **Ethernet (LAN)** modes.

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



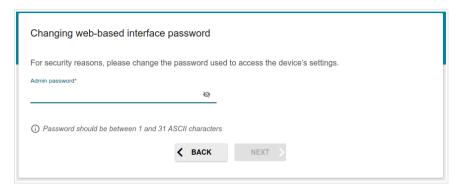
- 2. Select a free LAN port for connecting your set-top box.
- 3. If the IPTV service is provided via a VLAN channel, select the **Use VLAN ID** checkbox and fill in the **VLAN ID** field
- 4. Click the **NEXT** button.
- 5. On the VoIP page, select the Is an IP phone connected to the device checkbox.



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

Changing Web-based Interface Password

On this page you should change the default administrator password. You may set any password except **admin**. Use digits, Latin letters (uppercase and/or lowercase), and other characters available in the US keyboard layout.²



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.

^{2 0-9,} A-Z, a-z, space, !"#\$%&'()*+,-./:;<=>?@[\]^ `{|}~.

Configuring Local Area Network

- 1. Go to the Connections Setup / LAN page.
- 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.



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



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).



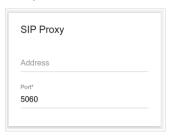
5. **IPv6 address assignment**. By default, the devices of the LAN automatically assign IPv6 addresses to themselves (the **Stateless** value is selected from the **Mode of dynamic IPv6 address assignment** drop-down list in the **Dynamic IPv6 Addresses** section on the **IPv6** tab). If the devices 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.



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

Configuring VoIP via SIP

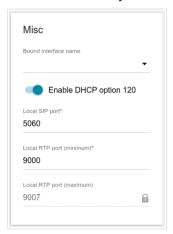
- 1. Go to the **VolP / Basic Settings** page.
- 2. In the SIP Proxy section, fill in the Address field.



3. If your provider uses 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).



4. In the **Misc** section, from the **Bound interface name** drop-down list, select the interface which will be used by VoIP.



- 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. In the **Line 1** section, move the **Registration** switch to the right, fill in the **SIP ID / Number** field, 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



- 7. If needed, fill in other fields on the page in accordance with data provided by the ISP.
- 8. Click the **APPLY** button ().

SPECIFICATIONS*

Hardware	
Processor	· RTL8685PB (1GHz)
RAM	· 128MB, DDR2, built in processor
Flash	· 16MB, SPI
Interfaces	 Slot for SIM card (mini-SIM) 10/100/1000BASE-T WAN port 4 10/100/1000BASE-T LAN ports FXS port
LEDs	POWER INTERNET SGHz LAGHz SG/3G LAN WAN VOICE SMS SIGNAL STRENGTH
Buttons	 ON/OFF button to power on/power off RESET button to restore factory default settings WPS button to set up wireless connection WLAN button to enable/disable wireless network
Antenna	Two detachable LTE/3G antennas (3dBi gain) Two internal Wi-Fi antennas for 2.4GHz band (3dBi gain) Two internal Wi-Fi antennas for 5GHz band (3dBi gain)
МІМО	· 2 x 2
Power connector	· Power input connector (DC)

^{*} 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 IP / Dynamic IP Static IPv6 / Dynamic IPv6 PPPoE + Static IP PPPoE + Dynamic IP PPTP/L2TP + Static IP PPTP/L2TP + Dynamic IP Bridge 	
Network functions	 Support of IEEE 802.1X for Internet connection DHCP server/relay Stateful/Stateless mode for IPv6 address assignment, IPv6 prefix delegation 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 	
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	
QoS	Interface grouping VLAN priority (802.1p)	

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

LTE Module Parameters		
LTE connection rate ³	Downlink: up to 150Mbps Uplink: up to 50Mbps	
Supported frequencies ⁴	 Power Class 3 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 UMTS B1/2/3/5/8 (2100/1900/1800/850/900MHz) GSM/GPRS 850/900/1800/1900MHz 	

³ Data rates are theoretical. Data transfer rate depends on network capacity and signal strength.

⁴ Supported frequency bands are dependent on regional variants.

LTE Module Parameters		
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 Support of USSD requests 	

Wireless Module Parameters	
Standards	· IEEE 802.11n/ac · IEEE 802.11b/g/n
Frequency range	 2400 ~ 2483.5MHz 5150 ~ 5350MHz 5650 ~ 5725MHz
Wireless connection security	WEPWPA/WPA2 (Personal/Enterprise)MAC filterWPS (PBC/PIN)
Advanced functions	 WMM (Wi-Fi QoS) Information on connected Wi-Fi clients Advanced settings Guest Wi-Fi / support of MBSSID Limitation of wireless network rate Periodic scan of channels, automatic switch to least loaded channel Autonegotiation of channel bandwidth in accordance with environment conditions (20/40 Coexistence)
Wireless connection rate	 IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, and 54Mbps IEEE 802.11b: 1, 2, 5.5, and 11Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, and 54Mbps IEEE 802.11n (2.4GHz/5GHz): from 6.5 to 300Mbps (from MCS0 to MCS15) IEEE 802.11ac (5GHz): from 6.5 to 867Mbps (from MCS0 to MSC9)

Wireless Module Parameters		
Transmitter output power The maximum value of the transmitter output power depends upon the radio frequency regulations applied in your country	802.11b 15dBm (+/-1.5dB) 802.11g 12dBm (+/-1.5dB) 802.11n HT20 12dBm (+/-1.5dB) HT40 12dBm (+/-1.5dB) 802.11ac 14dBm	
Receiver sensitivity	802.11b -76dBm at 11Mbps 802.11g -65dBm at 54Mbps 802.11n HT20 -64dBm at MCS15 HT40 -61dBm at MCS15 802.11ac HT20 -56dBm at MCS8 HT40 -53dBm at MCS9 HT80 -51dBm at MCS9	
Modulation schemes	802.11b: DSSS/BPSK/QPSK/CCK 802.11g: OFDM/DSSS/BPSK/QPSK/CCK 802.11n: BPSK/QPSK/16 QAM/64 QAM/DBPSK/DQPSK/ CCK 802.11ac: BPSK/QPSK/16 QAM/64 QAM/256 QAM	

Phone	
General SIP Features	 Invite with Challenge Register by IP address or domain name of SIP server Backup proxy support Support of DHCP option 120 RFC3986 SIP URI format support Outbound proxy support STUN client NAT keep-alive Call types: voice/modem/fax User programmable Dial Plan

Phone	
Call Features	 Direct IP-to-IP call without SIP proxy (P2P) Call hold/retrieve Call awaiting Forwarding (unconditional, busy, no answer) Do Not Disturb Blocking hidden number calls CLIR Speed/abbreviated dialing PIN code before dialing Hotline Vertical service codes Intercom (internal calls without SIP server) Filtering SIP packets by IP address/domain name Alarm clock Logging calls Sending text messages to VoIP gateways/IP phones
Voice Features	 Codecs: G.711 a/μ-law, G.729A, G.726, G.722, G.723.1, GSMFR, ILBC, SPEEX DTMF detection and generation In-band DTMF, out-of-band DTMF (RFC2833, SIP-INFO) Comfort Noise Generation (CNG) Voice Activity Detection (VAD) Echo Cancellation (LEC/NLP) Dynamic Jitter Buffer Call progress tone generation (FXS) DTMF/PULSE dial support Caller ID detection and generation T.30 FAX bypass to G.711, T.38 Real Time FAX Relay, V.152 Adjustable Flash Time Advanced call transfer Volume control (speaker/microphone)

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

Operating Environment		
Power	· Output: 12V DC, 2A	
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/