Product Highlights

HIGH-SPEED CONNECTION
VDSL2/VDSL/ADSL2+/ADSL, total wireless connection rate up to 1200Mbps[1]

IPV6 SUPPORT
All needed functions for up-to-date networking

SECURITY
Multiple firewall functions, several security standards for wireless connection

USB PORT
Support of USB modem for Internet connection via 4G/3G/2G network, USB storage, and printer

DSL-245GR

Wireless AC1200 Dual Band VDSL2 Router with ADSL2+/3G/LTE/Ethernet WAN Support and USB Port

USB Port

The router is equipped with a USB port for connecting a USB modem, which can be used to establish connection to the Internet. In addition, to the USB port of the router you can connect a USB storage device, which will be used as a network drive, or a printer.

In order to use the multifunction USB port effectively, the router supports simultaneous operation of several USB devices. For example, you can access multimedia content of the connected HDD storage and at the same time share a USB printer.[2]

DSL Port and 4-port Switch, Ethernet WAN Support

The router is equipped with a DSL port to connect to a high-speed VDSL line. The built-in 4-port switch enables you to connect Ethernet-enabled computers, game consoles, and other devices to your network. In addition, any Ethernet port of the device can be used to connect to a private Ethernet line.

Wireless Interface

Using the DSL-245GR device, you are able to quickly create a high-speed wireless network at home or in your office, which lets computers and mobile devices access the Internet virtually anywhere (within the operational range of your wireless network). Simultaneous activity of 2.4GHz band and 5GHz band allows performing a wide range of tasks. The router can operate as a base station for connecting wireless devices of the standards 802.11a, 802.11b, 802.11g, 802.11n, and 802.11ac (at the wireless connection rate up to 1167Mbps[1]).

Secure Wireless Connection

The router supports multiple functions for the wireless interface: several security standards (WEP, WPA/WPA2/WPA3), MAC address filtering, WPS, WMM.

In addition, the device is equipped with a button for switching the Wi-Fi network off/on. If needed, for example, when you leave home, you can easily switch the router's WLAN by pressing the button, and devices connected to the LAN ports of the router will stay online.

1 Up to 300Mbps for 2.4GHz and up to 867Mbps for 5GHz.
2 When using a USB hub with external power supply.

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Advanced Capabilities of Wireless Network

Transmit Beamforming technology allows to flexibly change the antennas' radiation pattern and to redistribute the signal directly to wireless devices connected to the router.

Smart adjustment of Wi-Fi clients is useful for networks based on several D-Link access points or routers – when the smart adjustment function is configured on each of them, a client always connects to the access point (router) with the highest signal level.

Support of guest Wi-Fi network allows you to create a separate wireless network with individual security settings and maximum rate limitation. Devices connected to the guest network will be able to access the Internet, but will be isolated from the devices and resources of the router's LAN.

Security

The wireless router DSL-245GR includes a built-in firewall. The advanced security functions minimize threats of hacker attacks, prevent unwanted intrusions to your network, and block access to unwanted websites for users of your LAN.

The SSH protocol support provides more secure remote configuration and management of the router due to encryption of all transmitted traffic, including passwords.

In addition, the router supports IPsec and allows to create secure VPN tunnels. Support of the IKEv2 protocol allows to provide simplified message exchange and use asymmetric authentication engine upon configuration of an IPsec tunnel.

Built-in Yandex.DNS service protects against malicious and fraudulent web sites and helps to block access to adult content on children's devices.

The router also supports the SkyDNS web content filtering service, which provides more settings and opportunities for safer Internet experience for home users of all ages and for professional activities of corporate users.

Now the schedules are also implemented; they can be applied to the rules and settings of the firewall and used to reboot the router at the specified time or every specified time period and to enable/disable the wireless network and the Wi-Fi filter.

Easy configuration and update

You can configure the settings of the wireless router DSL-245GR via the user-friendly web-based interface (the interface is available in several languages).

The configuration wizard allows you to quickly switch DSL-245GR to one of the following modes: router (for connection to a wired or wireless ISP), access point, repeater, or client, and then configure all needed setting for operation in the selected mode in several simple steps.

Also DSL-245GR supports configuration and management via mobile application for Android and iPhone smartphones.

You can simply update the firmware: the router itself finds approved firmware on D-Link update server and notifies when ready to install it.

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Hardware	
Processor	· RTL8685PB (1GHz)
RAM	· 128MB, DDR2, built in processor
Flash	· 16MB, SPI
Interfaces	· 1 RJ-11 DSL port · 4 10/100/1000BASE-T LAN ports · USB 2.0 port
LEDs	· Power · DSL · Internet · 4 LAN LEDs · 2.4G WLAN · 5G WLAN · WPS · USB
Buttons	· ON/OFF button to power on/power off · RESET button to restore factory default settings · WPS button to set up wireless connection · WIFI button to enable/disable wireless network
Antenna	· Two external non-detachable antennas for 2.4GHz band (5dBi gain) · Two external non-detachable antennas for 5GHz band (5dBi gain)
MIMO	· 2 x 2
Power connector	· Power input connector (DC)

DSL Parameters	
VDSL/ADSL Standards	· VDSL2: ITU G.993.2, support of 8a, 8b, 8c, 8d, 12a, 12b, 17a, 30a, 35b profiles · ADSL: Multi-mode, ANSI T1.413 Issue 2, ITU-T G.992.1 (G.dmt) Annex A, ITU-T G.992.2 (G.lite) Annex A, ITU-T G.994.1 (G.hs) · ADSL2: ITU-T G.992.3 (G.dmt.bis) Annex A/L/M, ITU-T G.992.4 (G.lite.bis) Annex A · ADSL2+: ITU-T G.992.5 Annex A/L/M · ITU-T G.993.5 (G.vector) · ITU-T G.998.4 (G.inp)
ATM/PPP Protocols	· Bridged and routed Ethernet encapsulation · VC-based or LLC-based multiplexing · ATM Forum UNI3.1/4.0 PVC (up to 8 PVCs) · ATM Adaptation Layer Type 5 (AAL5) · ITU-T I.610 OAM F4/F5 loopback · ATM QoS · PPP over ATM (RFC 2364) · PPP over Ethernet (PPPoE) · Keep-alive for PPP connections

Software	
WAN connection types	· Mobile Internet (via supported USB modem) · PPPoE / IPv6 PPPoE / PPPoE Dual Stack / PPPoA · Static IPv4 / Dynamic IPv4 / IPoA · Static IPv6 / Dynamic IPv6 · PPTP/L2TP + Static IP · PPTP/L2TP + Dynamic IP · Bridge

Software	
Network functions	· DHCP server/relay · Advanced configuration of built-in DHCP server · Stateful/Stateless mode for IPv6 address assignment, IPv6 prefix delegation · Automatic obtainment of LAN IP address (for access point/repeater/client modes) · DNS relay · Dynamic DNS · Static IPv4/IPv6 routing · IGMP Proxy · IGMP snooping · 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 · Built-in UDPXY application · Equal load distribution while using several WAN connections (traffic balancing) · Port mirroring
Firewall functions	· Network Address Translation (NAT) · Stateful Packet Inspection (SPI) · IPv4/IPv6 filter · MAC filter · URL filter · DMZ · Virtual servers · Built-in Yandex.DNS web content filtering service · Built-in SkyDNS web content filtering service
VPN	· IPsec/PPTP/L2TP/PPPoE pass-through · PPTP/L2TP servers · PPTP/L2TP tunnels · L2TP over IPsec · GRE/EoGRE tunnels · IPsec tunnels Transport/Tunnel mode IKEv1/IKEv2 support DES encryption NAT Traversal Support of DPD (Keep-alive for VPN tunnels)
QoS	· Interface grouping · VLAN priority (802.1p)
USB interface functions	· USB modem Auto connection to available type of supported network (4G/3G/2G) Auto configuration of connection upon plugging in USB modem Enabling/disabling PIN code check, changing PIN code[3] Sending/receiving/reading/removing SMS messages[3] Support of USSD requests[3] · USB storage File browser Print server Access to storage via accounts Built-in Samba/FTP/DLNA server Built-in Transmission torrent client; uploading/downloading files from/to USB storage

3 For some models of USB modems.

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Software	
Management and monitoring	· Local and remote access to settings through SSH/TELNET/WEB (HTTP/HTTPS) · Multilingual web-based interface for configuration and management · Support of D-Link Assistant application for Android and iPhone 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/connected USB storage · Automatic synchronization of system time with NTP server and manual time/date setup · Ping utility · Traceroute utility · TR-069 client · SNMP agent · Schedules for rules and settings of firewall, automatic reboot, and enabling/disabling wireless network and Wi-Fi filter · Automatic upload of configuration file from ISP's server (Auto Provision)

Wireless Module Parameters	
Standards	· IEEE 802.11ac Wave 2 · IEEE 802.11a/b/g/n · IEEE 802.11k/v · IEEE 802.11w
Frequency range *The frequency range depends upon the radio frequency regulations applied in your country*	· 2400 ~ 2483.5MHz · 5150 ~ 5350MHz · 5650 ~ 5850MHz
Wireless connection security	· WEP · WPA/WPA2 (Personal/Enterprise) · WPA3 (Personal) · MAC filter · WPS (PBC/PIN)
Advanced functions	· Support of client mode · WMM (Wi-Fi QoS) · Information on connected Wi-Fi clients · Advanced settings · Smart adjustment of Wi-Fi clients · Guest Wi-Fi / support of MBSSID · Rate limitation for wireless network/separate MAC addresses · Periodic scan of channels, automatic switch to least loaded channel · Support of 2.4GHz/5GHz TX Beamforming · Autonegotiation of channel bandwidth in accordance with environment conditions (20/40 Coexistence) · Support of STBC
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 MCS9)

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 15dBm at 6, 54Mbps · 802.11b 15dBm at 1, 11Mbps · 802.11g 15dBm at 6, 54Mbps · 802.11n HT20/HT40 15dBm at MCS0, 7 · 802.11ac VHT20 15dBm at MCS0, 8 VHT40 15dBm at MCS0, 9 VHT80 15dBm at MCS0, 9
Receiver sensitivity	· 802.11a -86dBm at 6Mbps -65dBm at 54Mbps · 802.11b -90dBm at 1Mbps -76dBm at 11Mbps · 802.11g -86dBm at 6Mbps -68dBm at 54Mbps · 802.11n 2.4GHz HT20 -85dBm at MCS0 -67dBm at MCS7 HT40 -82dBm at MCS0 -64dBm at MCS7 5GHz HT20 -85dBm at MCS0 -65dBm at MCS7 HT40 -82dBm at MCS0 -61dBm at MCS7 · 802.11ac VHT20 -82dBm at MCS0 -59dBm at MCS8 VHT40 -79dBm at MCS0 -54dBm at MCS9 VHT80 -76dBm at MCS0 -51dBm at MCS9
Modulation schemes	· 802.11a: BPSK, QPSK, 16 QAM, 64 QAM with OFDM · 802.11b: DQPSK, DBPSK, DSSS, and CCK · 802.11g: BPSK, QPSK, 16 QAM, 64 QAM with OFDM · 802.11n: BPSK, QPSK, 16 QAM, 64 QAM with OFDM · 802.11ac: BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM with OFDM

Physical Parameters	
Dimensions (L x W x H)	· 217 x 148 x 47 mm (8.5 x 5.8 x 1.9 in)
Weight	· 345 g (0.8 lb)

Operating Environment	
Power	· Output: 12V DC, 1.5A
Temperature	· Operating: from 5 to 40 °C · Storage: from -20 to 70 °C
Humidity	· Operating: from 10% to 90% (non-condensing) · Storage: from 5% to 95% (non-condensing)

Delivery Package

- Router DSL-245GR
- Power adapter DC 12V/1.5A
- RJ-11 telephone cable
- Ethernet cable
- Splitter
- “Quick Installation Guide” (brochure)

Supported USB modems[4]	
GSM	· Alcatel X500 · D-Link DWM-152C1 · D-Link DWM-156A6 · D-Link DWM-156A7 · D-Link DWM 156A8 · D-Link DWM-156C1 · D-Link DWM-157B1 · D-Link DWM-157B1 (Velcom) · D-Link DWM-158D1 · D-Link DWR-710 · Huawei E150 · Huawei E1550 · Huawei E156G · Huawei E160G · Huawei E169G · Huawei E171 · Huawei E173 (Megafon) · Huawei E220 · Huawei E3131 (MTS 420S) · Huawei E352 (Megafon) · Huawei E3531 · Prolink PHS600 · Prolink PHS901 · ZTE MF112 · ZTE MF192 · ZTE MF626 · ZTE MF627 · ZTE MF652 · ZTE MF667 · ZTE MF668 · ZTE MF752

4 The manufacturer does not guarantee proper operation of the router with every modification of the firmware of USB modems.

Supported USB modems	
LTE	· Alcatel IK40V · D-Link DWM-222 · Huawei E3131 · Huawei E3272 · Huawei E3351 · Huawei E3372s · Huawei E3372h-153 · Huawei E3372h-320 · Huawei E367 · Huawei E392 · Megafon M100-1 · Megafon M100-2 · Megafon M100-3 · Megafon M100-4 · Megafon M150-1 · Megafon M150-2 · Megafon M150-3 · Quanta 1K6E (Beeline 1K6E) · MTS 824F · MTS 827F · Yota LU-150 · Yota WLTUBA-107 · ZTE MF823 · ZTE MF823D · ZTE MF827 · ZTE MF833T · ZTE MF833V
Smartphones in USB tethering mode	· Some models of Android smartphones