

## Product Highlights

### HIGH-SPEED CONNECTION

**ADSL2+ / ADSL2 / ADSL,  
Fast Ethernet,  
wireless connection rate  
up to 150Mbps**

### USB PORT

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

### IPV6 SUPPORT

**All needed functions  
for up-to-date networking**



## DSL-2650U

### Wireless ADSL2+ Router with 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.

#### ADSL Port and 4-port Switch, Ethernet WAN Support

The router is equipped with an ADSL port to connect to an ADSL 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-2650U 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). The router can operate as a base station for connecting wireless devices of the standards 802.11b, 802.11g, and 802.11n.

#### Secure Wireless Connection

The router supports multiple functions for the wireless interface: several security standards (WEP, WPA/WPA2), 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.

#### Advanced Capabilities of Wireless Network

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-2650U 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.

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

**Easy configuration and update**

You can configure the settings of the wireless router DSL-2650U via the user-friendly web-based interface (the interface is available in two languages – in Russian and in English).

The fast and easy configuration wizard allows you to specify all needed parameters in several simple steps.

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

<b>Hardware</b>	
<b>Processor</b>	<ul style="list-style-type: none"> <li>RTL8676</li> </ul>
<b>RAM</b>	<ul style="list-style-type: none"> <li>32MB, SDRAM</li> </ul>
<b>Flash</b>	<ul style="list-style-type: none"> <li>8MB, SPI</li> </ul>
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>RJ-11 ADSL port</li> <li>4 10/100BASE-TX LAN ports</li> <li>USB 2.0 port</li> </ul>
<b>LEDs</b>	<ul style="list-style-type: none"> <li>POWER</li> <li>DSL</li> <li>INTERNET</li> <li>WLAN</li> <li>4 LAN LEDs</li> <li>WPS</li> <li>USB</li> </ul>
<b>Buttons</b>	<ul style="list-style-type: none"> <li>ON/OFF button to power on/power off</li> <li>RESET button to restore factory default settings</li> <li>WPS/WLAN button to set up wireless connection and enable/disable wireless network</li> </ul>
<b>Antenna</b>	<ul style="list-style-type: none"> <li>Internal omnidirectional antenna (2dBi gain)</li> </ul>
<b>Power connector</b>	<ul style="list-style-type: none"> <li>Power input connector (DC)</li> </ul>

<b>DSL Parameters</b>	
<b>ADSL Standards</b>	<ul style="list-style-type: none"> <li>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)</li> <li>ADSL2: ITU-T G.992.3 (G.dmt.bis) Annex A/L/M, ITU-T G.992.4 (G.lite.bis) Annex A</li> <li>ADSL2+: ITU-T G.992.5 Annex A/L/M</li> </ul>
<b>ATM/PPP Protocols</b>	<ul style="list-style-type: none"> <li>Bridged and routed Ethernet encapsulation</li> <li>VC-based or LLC-based multiplexing</li> <li>ATM Forum UNI3.1/4.0 PVC (up to 8 PVCs)</li> <li>ATM Adaptation Layer Type 5 (AAL5)</li> <li>ITU-T I.610 OAM F4/F5 loopback</li> <li>ATM QoS</li> <li>PPP over ATM (RFC 2364)</li> <li>PPP over Ethernet (PPPoE)</li> <li>Keep-alive for PPP connections</li> </ul>

<b>Software</b>	
<b>WAN connection types</b>	<ul style="list-style-type: none"> <li>· LTE</li> <li>· 3G</li> <li>· PPPoA</li> <li>· PPPoE</li> <li>· IPv6 PPPoE</li> <li>· PPPoE Dual Stack</li> <li>· IPoA</li> <li>· Static IPv4 / Dynamic IPv4</li> <li>· Static IPv6 / Dynamic IPv6</li> <li>· Bridge</li> </ul>
<b>Network functions</b>	<ul style="list-style-type: none"> <li>· DHCP server/relay</li> <li>· Stateful/Stateless mode for IPv6 address assignment, IPv6 prefix delegation</li> <li>· DNS relay</li> <li>· Dynamic DNS</li> <li>· Static IP routing</li> <li>· Static IPv6 routing</li> <li>· IGMP Proxy</li> <li>· IGMP snooping</li> <li>· RIP</li> <li>· Support of UPnP IGD</li> <li>· Support of VLAN</li> <li>· WAN ping respond</li> <li>· Support of SIP ALG</li> <li>· Support of RTSP</li> <li>· WAN reservation</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>· IP filter</li> <li>· IPv6 filter</li> <li>· MAC filter</li> <li>· URL filter</li> <li>· DMZ</li> <li>· Prevention of ARP and DDoS attacks</li> <li>· Virtual servers</li> <li>· Built-in Yandex.DNS web content filtering service</li> </ul>
<b>VPN</b>	<ul style="list-style-type: none"> <li>· IPsec/PPTP/L2TP/PPPoE pass-through</li> </ul>
<b>QoS</b>	<ul style="list-style-type: none"> <li>· Interface grouping</li> <li>· VLAN priority (802.1p)</li> </ul>
<b>USB interface functions</b>	<ul style="list-style-type: none"> <li>· USB modem Auto connection to available type of supported network (4G/3G/2G) Enabling/disabling PIN code check, changing PIN code<sup>1</sup></li> <li>· 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</li> </ul>
<b>Management</b>	<ul style="list-style-type: none"> <li>· Local and remote access to settings through TELNET/WEB (HTTP/HTTPS)</li> <li>· Bilingual web-based interface for configuration and management (Russian/English)</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/connected USB storage</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> </ul>

<sup>1</sup> For some models of USB modems.

Wireless Module Parameters	
<b>Standards</b>	<ul style="list-style-type: none"> <li>IEEE 802.11b/g/n</li> </ul>
<b>Frequency range</b>	<ul style="list-style-type: none"> <li>2400 ~ 2483.5MHz</li> </ul>
<b>Wireless connection security</b>	<ul style="list-style-type: none"> <li>WEP</li> <li>WPA/WPA2 (Personal)</li> <li>MAC filter</li> <li>WPS (PBC/PIN)</li> </ul>
<b>Advanced functions</b>	<ul style="list-style-type: none"> <li>WMM (Wi-Fi QoS)</li> <li>Information on connected Wi-Fi clients</li> <li>Advanced settings</li> <li>Guest Wi-Fi / support of MBSSID</li> <li>Limitation of wireless network rate</li> <li>Periodic scan of channels, automatic switch to least loaded channel</li> </ul>
<b>Wireless connection rate</b>	<ul style="list-style-type: none"> <li>IEEE 802.11b: 1, 2, 5.5, and 11Mbps</li> <li>IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, and 54Mbps</li> <li>IEEE 802.11n: from 6.5 to 150Mbps (from MCS0 to MCS7)</li> </ul>
<b>Transmitter output power</b>  <i>The maximum value of the transmitter output power depends upon the radio frequency regulations applied in your country</i>	<ul style="list-style-type: none"> <li>802.11b 16.5 ~ 18.5dBm</li> <li>802.11g 13.5 ~ 16.5dBm</li> <li>802.11n 13.5 ~ 16.5dBm</li> </ul>
<b>Modulation schemes</b>	<ul style="list-style-type: none"> <li>802.11b: CCK (11, 5.5Mbps), DQPSK (2Mbps), DBPSK (1Mbps), DSSS</li> <li>802.11g: PSK/CCK, DBPSK, DQPSK, OFDM, BPSK, QPSK, 16QAM, 64QAM</li> <li>802.11n: PSK/CCK, DBPSK, DQPSK, OFDM, etc.</li> </ul>

Physical Parameters	
<b>Dimensions (L x W x H)</b>	<ul style="list-style-type: none"> <li>160 x 59 x 120 mm (6.3 x 2.3 x 4.7 in)</li> </ul>
<b>Weight</b>	<ul style="list-style-type: none"> <li>210 g (0.46 lb)</li> </ul>

Operating Environment	
<b>Power</b>	<ul style="list-style-type: none"> <li>Output: 12V DC, 1A</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>Operating: from 0 to 40 °C</li> <li>Storage: from -20 to 70 °C</li> </ul>
<b>Humidity</b>	<ul style="list-style-type: none"> <li>From 5% to 95% (non-condensing)</li> </ul>

Delivery Package	
<ul style="list-style-type: none"> <li>Router DSL-2650U</li> <li>Power adapter DC 12V/1A</li> <li>RJ-11 telephone cable</li> <li>Ethernet cable (CAT 5E)</li> <li>Splitter</li> <li>"Quick Installation Guide" (brochure)</li> </ul>	

**Supported USB modems<sup>2</sup>**

<p><b>GSM</b></p>	<ul style="list-style-type: none"> <li>· Alcatel X500</li> <li>· D-Link DWM-152C1</li> <li>· D-Link DWM-156A6</li> <li>· D-Link DWM-156A7</li> <li>· D-Link DWM 156A8</li> <li>· D-Link DWM-156C1</li> <li>· D-Link DWM-157B1</li> <li>· D-Link DWM-157B1 (Velcom)</li> <li>· D-Link DWM-158D1</li> <li>· D-Link DWR-710</li> <li>· Huawei E150</li> <li>· Huawei E1550</li> <li>· Huawei E156G</li> <li>· Huawei E160G</li> <li>· Huawei E169G</li> <li>· Huawei E171</li> <li>· Huawei E173 (Megafon)</li> <li>· Huawei E220</li> <li>· Huawei E3131 (MTS 420S)</li> <li>· Huawei E352 (Megafon)</li> <li>· Prolink PHS600</li> <li>· Prolink PHS901</li> <li>· ZTE MF112</li> <li>· ZTE MF192</li> <li>· ZTE MF626</li> <li>· ZTE MF627</li> <li>· ZTE MF652</li> <li>· ZTE MF667</li> <li>· ZTE MF668</li> <li>· ZTE MF752</li> </ul>
<p><b>LTE</b></p>	<ul style="list-style-type: none"> <li>· Huawei E3131</li> <li>· Huawei E3272</li> <li>· Huawei E3351</li> <li>· Huawei E3372</li> <li>· Huawei E367</li> <li>· Huawei E392</li> <li>· Megafon M100-1</li> <li>· Megafon M100-2</li> <li>· Megafon M100-3</li> <li>· Megafon M100-4</li> <li>· Megafon M150-1</li> <li>· Megafon M150-2</li> <li>· Quanta 1K6E (Beeline 1K6E)</li> <li>· MTS 824F</li> <li>· MTS 827F</li> <li>· Yota LU-150</li> <li>· Yota WLTUBA-107</li> <li>· ZTE MF823</li> <li>· ZTE MF827</li> </ul>
<p><b>Smartphones in USB tethering mode</b></p>	<ul style="list-style-type: none"> <li>· Some models of Android smartphones</li> </ul>

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<sup>2</sup> The manufacturer does not guarantee proper operation of the router with every modification of the firmware of USB modems.