

## Product Highlights

### Wi-Fi 6 (802.11ax)

Less network congestion and faster speed – total wireless connection rate up to 1500Mbps<sup>1</sup>

### SECURITY

Multiple firewall functions, several security standards for wireless connection

### IPV6 SUPPORT

All needed functions for up-to-date networking



## DIR-X1510

### AX1500 Wi-Fi 6 EasyMesh Gigabit Router

#### Wireless Interface

Support of Wi-Fi 6 (802.11ax) standard provides faster speeds, greater capacity, and less network congestion for high-performance device-dense environments. It ensures connection of more devices and prevents weakening wireless connectivity by wall obstruction and interference from other appliances.

Using the DIR-X1510 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, 802.11ac, and 802.11ax (at the wireless connection rate up to 1500Mbps<sup>1</sup>).

#### 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.

<sup>1</sup> Up to 300Mbps for 2.4GHz and up to 1201Mbps for 5GHz.

### **Advanced Capabilities of Wireless Network**

The Band Steering technology simplifies connection to the network and optimizes further operation for the wireless clients. You can configure the wireless network with one name for both bands, so the clients automatically choose the preferred band when they are connecting or when the network conditions change.

The EasyMesh function is D-Link implementation of mesh networks designed to quickly connect several<sup>2</sup> devices into one transport network, for example, when it's required to provide high-quality Wi-Fi coverage without dead zones in living units of complicated planning or it's needed to create a large temporary Wi-Fi network for an outdoor event.

Multi-user MIMO technology allows to distribute the router's resources to let multiple wireless clients use the Wi-Fi network efficiently, keeping high rates for HD media streaming, lag-free gaming, and fast transfer of large files.

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

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 DIR-X1510 includes a built-in firewall. The advanced security functions minimize threats of hacker attacks and 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.

The router supports multiple types of secure VPN connection tunnels: IPsec (IKEv1/IKEv2), L2TP over IPsec, PPTP/L2TP, OpenVPN, and WireGuard tunnels.

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.

The new ad blocking function effectively blocks advertisements which appear during web surfing.

### **Easy configuration and update**

You can configure the settings of the wireless router DIR-X1510 via the user-friendly web-based interface (the interface is available in two languages – in Russian and in English).

The configuration wizard allows you to quickly switch DIR-X1510 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 DIR-X1510 supports configuration and management via mobile application for Android 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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<sup>2</sup> Up to 6 devices.

Hardware	
Processor	<ul style="list-style-type: none"> <li>RTL8197H (1GHz)</li> </ul>
RAM	<ul style="list-style-type: none"> <li>64MB, DDR2, built in processor</li> </ul>
Flash	<ul style="list-style-type: none"> <li>128MB, SPI NAND</li> </ul>
Interfaces	<ul style="list-style-type: none"> <li>10/100/1000BASE-T WAN port</li> <li>4 10/100/1000BASE-T LAN ports</li> </ul>
LEDs	<ul style="list-style-type: none"> <li>Power</li> <li>Internet</li> <li>WLAN 2.4G</li> <li>WLAN 5G</li> </ul>
Buttons	<ul style="list-style-type: none"> <li>WPS button to connect mesh network devices, set up wireless connection, and enable/disable wireless network</li> <li>RESET button to restore factory default settings</li> </ul>
Antenna	<ul style="list-style-type: none"> <li>Four external non-detachable antennas (5dBi gain)</li> </ul>
MIMO	<ul style="list-style-type: none"> <li>2 x 2, MU-MIMO</li> </ul>
Power connector	<ul style="list-style-type: none"> <li>Power input connector (DC)</li> </ul>
Mounting	<ul style="list-style-type: none"> <li>Desktop</li> <li>Wall</li> </ul>

Software	
WAN connection types	<ul style="list-style-type: none"> <li>PPPoE</li> <li>IPv6 PPPoE</li> <li>PPPoE Dual Stack</li> <li>Static IPv4 / Dynamic IPv4</li> <li>Static IPv6 / Dynamic IPv6</li> <li>PPPoE + Static IP (PPPoE Dual Access)</li> <li>PPPoE + Dynamic IP (PPPoE Dual Access)</li> <li>PPTP/L2TP + Static IP</li> <li>PPTP/L2TP + Dynamic IP</li> </ul>
Network functions	<ul style="list-style-type: none"> <li>DHCP server/relay</li> <li>Advanced configuration of built-in DHCP server</li> <li>Stateful/Stateless mode for IPv6 address assignment, IPv6 prefix delegation</li> <li>Automatic obtainment of LAN IP address (for access point/repeater/client modes)</li> <li>DNS relay</li> <li>Dynamic DNS</li> <li>Static IPv4/IPv6 routing</li> <li>IGMP/MLD Proxy</li> <li>RIP</li> <li>Support of UPnP</li> <li>Support of VLAN</li> <li>WAN ping respond</li> <li>Support of SIP ALG</li> <li>Support of RTSP</li> <li>WAN failover</li> <li>Autonegotiation of speed, duplex mode, and flow control / Manual speed and duplex mode setup for each Ethernet port</li> <li>Built-in UDPXY application</li> <li>Wake-on-LAN support</li> </ul>
Firewall functions	<ul style="list-style-type: none"> <li>Network Address Translation (NAT)</li> <li>Stateful Packet Inspection (SPI)</li> <li>IPv4/IPv6 filter</li> <li>MAC filter</li> <li>URL filter</li> <li>Ad blocking function</li> <li>DMZ</li> <li>Virtual servers</li> <li>Built-in SkyDNS web content filtering service</li> </ul>

Software	
<b>VPN</b>	<ul style="list-style-type: none"> <li>• IPsec/PPTP/L2TP/PPPoE pass-through</li> <li>• PPTP/L2TP tunnels</li> <li>• OpenVPN server/tunnels with PKI option (certificates/keys)</li> <li>• L2TP over IPsec client</li> <li>• WireGuard tunnels</li> <li>• IPsec tunnels               <ul style="list-style-type: none"> <li>• Transport/Tunnel mode</li> <li>• IKEv1/IKEv2 support</li> <li>• DES/3DES/AES/BLOWFISH/CAMELLIA/SERPENT/TWOFISH encryption</li> <li>• NAT Traversal</li> <li>• Support of DPD (Keep-alive for VPN tunnels)</li> </ul> </li> </ul>
<b>Management and monitoring</b>	<ul style="list-style-type: none"> <li>• Local and remote access to settings through SSH/TELNET/WEB (HTTP/HTTPS)</li> <li>• Bilingual web-based interface for configuration and management (Russian/English)</li> <li>• Support of D-Link Assistant application for Android smartphones</li> <li>• Notification on connection problems and auto redirect to settings</li> <li>• Firmware update via web-based interface</li> <li>• Automatic notification on new firmware version</li> <li>• Saving/restoring configuration to/from file</li> <li>• Support of logging to remote host</li> <li>• Automatic synchronization of system time with NTP server and manual time/date setup</li> <li>• Ping utility</li> <li>• Traceroute utility</li> <li>• TR-069 client</li> <li>• Schedules for rules and settings of firewall, automatic reboot, and enabling/disabling wireless network and Wi-Fi filter</li> <li>• Automatic upload of configuration file from ISP's server (Auto Provision)</li> <li>• Configuration of action for hardware buttons</li> </ul>

Wireless Module Parameters	
<b>Standards</b>	<ul style="list-style-type: none"> <li>• IEEE 802.11ax</li> <li>• IEEE 802.11ac Wave 2</li> <li>• IEEE 802.11a/b/g/n</li> <li>• IEEE 802.11k/v</li> <li>• IEEE 802.11w</li> </ul>
<b>Frequency range</b> <i>The frequency range depends upon the radio frequency regulations applied in your country</i>	<ul style="list-style-type: none"> <li>• 2400 ~ 2483.5MHz</li> <li>• 5150 ~ 5350MHz</li> <li>• 5650 ~ 5850MHz</li> </ul>
<b>Wireless connection security</b>	<ul style="list-style-type: none"> <li>• WEP</li> <li>• WPA/WPA2 (Personal/Enterprise)</li> <li>• WPA3 (Personal)</li> <li>• MAC filter</li> <li>• WPS (PBC/PIN)</li> </ul>
<b>Advanced functions</b>	<ul style="list-style-type: none"> <li>• EasyMesh function</li> <li>• Support of client mode</li> <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> <li>• Support of 5GHz TX Beamforming</li> <li>• Autonegotiation of channel bandwidth in accordance with environment conditions (20/40 Coexistence)</li> <li>• Support of OFDMA technology</li> <li>• Support of TWT technology</li> <li>• Support of Band Steering</li> <li>• Support of Airtime Fairness</li> </ul>
<b>Wireless connection rate</b>	<ul style="list-style-type: none"> <li>• IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, and 54Mbps</li> <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 (2.4GHz/5GHz): from 6.5 to 300Mbps (MCS0–MCS15)</li> <li>• IEEE 802.11ac (5GHz): from 6.5 to 867Mbps</li> <li>• IEEE 802.11ax (5GHz): from 6.5 to 1201Mbps</li> </ul>

Wireless Module Parameters			
<p><b>Transmitter output power</b></p> <p><i>The maximum value of the transmitter output power depends upon the radio frequency regulations applied in your country</i></p>	<ul style="list-style-type: none"> <li>· Less than 20dBm (100mW)</li> </ul>		
<p><b>Receiver sensitivity</b></p>	<ul style="list-style-type: none"> <li>· 802.11a (typical at PER &lt; 10% (1000-byte PDUs) at room temperature 25 °C)               <ul style="list-style-type: none"> <li>-93dBm at 6Mbps</li> <li>-92dBm at 9Mbps</li> <li>-91dBm at 12Mbps</li> <li>-88dBm at 18Mbps</li> <li>-85dBm at 24Mbps</li> <li>-82dBm at 36Mbps</li> <li>-78dBm at 48Mbps</li> <li>-76dBm at 54Mbps</li> </ul> </li> <li>· 802.11b (typical at PER = 8% (1000-byte PDUs) at room temperature 25 °C)               <ul style="list-style-type: none"> <li>-95dBm at 1Mbps</li> <li>-92dBm at 2Mbps</li> <li>-91dBm at 5.5Mbps</li> <li>-86dBm at 11Mb</li> </ul> </li> <li>· 802.11g (typical at PER &lt; 10% (1000-byte PDUs) at room temperature 25 °C)               <ul style="list-style-type: none"> <li>-91dBm at 6Mbps</li> <li>-90dBm at 9Mbps</li> <li>-89dBm at 12Mbps</li> <li>-87dBm at 18Mbps</li> <li>-84dBm at 24Mbps</li> <li>-80dBm at 36Mbps</li> <li>-76dBm at 48Mbps</li> <li>-75dBm at 54Mbps</li> </ul> </li> <li>· 802.11n (typical at PER = 10% (1000-byte PDUs) at room temperature 25 °C)               <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> <li>2.4GHz, HT20</li> <li>-96dBm at MCS0/8</li> <li>-93dBm at MCS1/9</li> <li>-90dBm at MCS2/10</li> <li>-87dBm at MCS3/11</li> <li>-84dBm at MCS4/12</li> <li>-79dBm at MCS5/13</li> <li>-78dBm at MCS6/14</li> <li>-77dBm at MCS7/15</li> <li>2.4GHz, HT40</li> <li>-93dBm at MCS0/8</li> <li>-90dBm at MCS1/9</li> <li>-87dBm at MCS2/10</li> <li>-84dBm at MCS3/11</li> <li>-81dBm at MCS4/12</li> <li>-77dBm at MCS5/13</li> <li>-75dBm at MCS6/14</li> <li>-74dBm at MCS7/15</li> </ul> </td> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> <li>5GHz, HT20</li> <li>-91dBm at MCS0/8</li> <li>-89dBm at MCS1/9</li> <li>-86dBm at MCS2/10</li> <li>-83dBm at MCS3/11</li> <li>-78dBm at MCS4/12</li> <li>-75dBm at MCS5/13</li> <li>-74dBm at MCS6/14</li> <li>-73dBm at MCS7/15</li> <li>5GHz, HT40</li> <li>-89dBm at MCS0/8</li> <li>-86dBm at MCS1/9</li> <li>-84dBm at MCS2/10</li> <li>-80dBm at MCS3/11</li> <li>-77dBm at MCS4/12</li> <li>-72dBm at MCS5/13</li> <li>-71dBm at MCS6/14</li> <li>-70dBm at MCS7/15</li> </ul> </td> </tr> </table> </li> </ul>	<ul style="list-style-type: none"> <li>2.4GHz, HT20</li> <li>-96dBm at MCS0/8</li> <li>-93dBm at MCS1/9</li> <li>-90dBm at MCS2/10</li> <li>-87dBm at MCS3/11</li> <li>-84dBm at MCS4/12</li> <li>-79dBm at MCS5/13</li> <li>-78dBm at MCS6/14</li> <li>-77dBm at MCS7/15</li> <li>2.4GHz, HT40</li> <li>-93dBm at MCS0/8</li> <li>-90dBm at MCS1/9</li> <li>-87dBm at MCS2/10</li> <li>-84dBm at MCS3/11</li> <li>-81dBm at MCS4/12</li> <li>-77dBm at MCS5/13</li> <li>-75dBm at MCS6/14</li> <li>-74dBm at MCS7/15</li> </ul>	<ul style="list-style-type: none"> <li>5GHz, HT20</li> <li>-91dBm at MCS0/8</li> <li>-89dBm at MCS1/9</li> <li>-86dBm at MCS2/10</li> <li>-83dBm at MCS3/11</li> <li>-78dBm at MCS4/12</li> <li>-75dBm at MCS5/13</li> <li>-74dBm at MCS6/14</li> <li>-73dBm at MCS7/15</li> <li>5GHz, HT40</li> <li>-89dBm at MCS0/8</li> <li>-86dBm at MCS1/9</li> <li>-84dBm at MCS2/10</li> <li>-80dBm at MCS3/11</li> <li>-77dBm at MCS4/12</li> <li>-72dBm at MCS5/13</li> <li>-71dBm at MCS6/14</li> <li>-70dBm at MCS7/15</li> </ul>
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-72dBm at MCS8	-70dBm at MCS8	-67dBm at MCS8																																																																							
-71dBm at MCS9	-68dBm at MCS9	-66dBm at MCS9																																																																							
-67dBm at MCS10	-65dBm at MCS10	-63dBm at MCS10																																																																							
-65dBm at MCS11	-62dBm at MCS11	-61dBm at MCS11																																																																							

**Physical Parameters**

<b>Dimensions (L x W x H)</b>	· 167 x 134 x 50 mm (6.6 x 5.3 x 2 in)
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**Operating Environment**

<b>Power</b>	· Output: 12V DC, 1A
<b>Temperature</b>	· Operating: from 0 to 40 °C · Storage: from -20 to 65 °C
<b>Humidity</b>	· Operating: from 10% to 90% (non-condensing) · Storage: from 5% to 95% (non-condensing)

**Delivery Package**

<ul style="list-style-type: none"> <li>· Router DIR-X1510</li> <li>· Power adapter DC 12V/1A</li> <li>· Ethernet cable</li> <li>· "Quick Installation Guide" (brochure)</li> </ul>
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