

## Product Highlights

### HIGH SPEED

Gigabit Ethernet ports,  
total wireless connection  
rate up to 600Mbps

### 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



## DIR-825

### Wireless N600 Dual Band Gigabit Router with 3G/LTE 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.

#### Wireless Interface

Using the DIR-825 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, and 802.11n (at the wireless connection rate up to 600Mbps<sup>1</sup>).

#### 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.

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.

#### Airgain Built-in Antennas

The router is equipped with Airgain built-in omnidirectional antennas. In spite of their compact size, such antennas can compete and even exceed performance of traditional whip antennas. Airgain antennas provide high gain (4dBi for 2.4GHz band and 6dBi for 5GHz band) and circular pattern in both horizontal and vertical plane; due to this, Airgain antennas show excellent performance in any direction, increase wireless network range and minimize occurrence of blind spots.

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

**Security**

The wireless router DIR-825 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 DIR-825 via the user-friendly web-based interface (the interface is available in several languages).

Also DIR-825 supports configuration and management via D-Link Click'n'Connect 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.

Hardware	
<b>Processor</b>	<ul style="list-style-type: none"> <li>RTL8197D (660MHz)</li> </ul>
<b>RAM</b>	<ul style="list-style-type: none"> <li>64MB, DDR2</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>10/100/1000BASE-T WAN port</li> <li>4 10/100/1000BASE-T LAN ports</li> <li>USB 2.0 port</li> </ul>
<b>LEDs</b>	<ul style="list-style-type: none"> <li>POWER</li> <li>WPS</li> <li>INTERNET</li> <li>2.4GHz</li> <li>5GHz</li> <li>4 LAN LEDs</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 button to set up secure wireless connection and enable/disable wireless network</li> </ul>
<b>Antenna</b>	<ul style="list-style-type: none"> <li>Two internal dual band antennas (4dBi gain for 2.4GHz and 6dBi gain for 5GHz)</li> </ul>
<b>MIMO</b>	<ul style="list-style-type: none"> <li>2 x 2</li> </ul>
<b>Power connector</b>	<ul style="list-style-type: none"> <li>Power input connector (DC)</li> </ul>

Software	
<b>WAN connection types</b>	<ul style="list-style-type: none"> <li>LTE</li> <li>3G</li> <li>PPPoE</li> <li>IPv6 PPPoE</li> <li>PPPoE Dual Stack</li> <li>Static IP / Dynamic IP</li> <li>Static IPv6 / Dynamic IPv6</li> <li>PPPoE + Static IP</li> <li>PPPoE + Dynamic IP</li> <li>PPTP/L2TP</li> <li>PPTP/L2TP + Static IP</li> <li>PPTP/L2TP + Dynamic IP</li> </ul>

Software	
<b>Network functions</b>	<ul style="list-style-type: none"> <li>· Support of IEEE 802.1X for Internet connection</li> <li>· DHCP server/relay</li> <li>· DHCPv6 server (Stateful/Stateless), IPv6 prefix delegation</li> <li>· DNS relay</li> <li>· Support of DNSv6 AAAA records</li> <li>· Dynamic DNS</li> <li>· Static IP routing</li> <li>· Static IPv6 routing</li> <li>· IGMP Proxy</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> <li>· Autonegotiation of speed, duplex mode, and flow control/Manual speed and duplex mode setup for each Ethernet port</li> <li>· Setup of maximum TX rate for each port of the router</li> <li>· Built-in UDPXY application</li> <li>· Built-in XUPNPD application</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>USB interface functions</b>	<ul style="list-style-type: none"> <li>· USB modem</li> <li>· Auto connection to available type of supported network (4G/3G/2G)</li> <li>· Auto configuration of connection upon plugging in USB modem</li> <li>· Enabling/disabling PIN code check, changing PIN code<sup>2</sup></li> <li>· USB storage</li> <li>· File browser</li> <li>· Print server</li> <li>· Access to storage via accounts</li> <li>· Built-in Samba server</li> <li>· Built-in FTP server</li> <li>· Built-in DLNA server</li> <li>· 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>· Multilingual web-based interface for configuration and management</li> <li>· Support of Click'n'Connect 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/connected USB storage</li> <li>· Automatic synchronization of system time with NTP server and manual time/date setup</li> <li>· Ping function</li> <li>· Traceroute utility</li> <li>· TR-069 client</li> </ul>
Wireless Module Parameters	
<b>Standards</b>	<ul style="list-style-type: none"> <li>· IEEE 802.11a/n</li> <li>· IEEE 802.11b/g/n</li> </ul>
<b>Frequency range</b>	<ul style="list-style-type: none"> <li>· 2400 ~ 2483.5MHz</li> <li>· 5150 ~ 5350MHz</li> <li>· 5650 ~ 5725MHz</li> </ul>

<sup>2</sup> For GSM USB modems and some models of LTE USB modems.

<b>Wireless Module Parameters</b>	
<b>Wireless connection security</b>	<ul style="list-style-type: none"> <li>· WEP</li> <li>· WPA/WPA2 (Personal/Enterprise)</li> <li>· MAC filter</li> <li>· WPS (PBC/PIN)</li> </ul>
<b>Advanced functions</b>	<ul style="list-style-type: none"> <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>· Smart adjustment of Wi-Fi clients</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 802.11a: 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 (from MCS0 to MCS15)</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>· 802.11a (typical at room temperature 25 °C) 12.5dBm (+/-1.5dB)</li> <li>· 802.11b (typical at room temperature 25 °C) 16dBm (+/-1.5dB)</li> <li>· 802.11g (typical at room temperature 25 °C) 14.5dBm (+/-1.5dB)</li> <li>· 802.11n (typical at room temperature 25 °C) HT20 14dBm (+/-1.5dB) MCS6/7 (2.4GHz) 11.5dBm (+/-1.5dB) MCS6/7 (5GHz) HT40 14dBm (+/-1.5dB) MCS6/7 (2.4GHz) 11.5dBm (+/-1.5dB) MCS6/7 (5GHz)</li> </ul>
<b>Receiver sensitivity</b>	<ul style="list-style-type: none"> <li>· 802.11a (typical at PER = 10% (1000-byte PDUs) at room temperature 25 °C) -65dBm at 54Mbps</li> <li>· 802.11b (typical at PER = 8% (1000-byte PDUs) at room temperature 25 °C) -82dBm at 1Mbps -78dBm at 5.5Mbps -76dBm at 11Mbps</li> <li>· 802.11g (typical at PER = 10% (1000-byte PDUs) at room temperature 25 °C) -82dBm at 6Mbps -81dBm at 9Mbps -79dBm at 12Mbps -77dBm at 18Mbps -74dBm at 24Mbps -70dBm at 36Mbps -66dBm at 48Mbps -65dBm at 54Mbps</li> <li>· 802.11n (typical at PER = 10% (1000-byte PDUs)) HT20 -82dBm at MCS0/8 -79dBm at MCS1/9 -77dBm at MCS2/10 -74dBm at MCS3/11 -70dBm at MCS4/12 -66dBm at MCS5/13 -65dBm at MCS6/14 -64dBm at MCS7/15 HT40 -79dBm at MCS0/8 -76dBm at MCS1/9 -74dBm at MCS2/10 -71dBm at MCS3/11 -67dBm at MCS4/12 -63dBm at MCS5/13 -62dBm at MCS6/14 -61dBm at MCS7/15</li> </ul>

<b>Wireless Module Parameters</b>	
<b>Modulation schemes</b>	<ul style="list-style-type: none"><li>· 802.11a: BPSK, QPSK, 16QAM, 64QAM with OFDM</li><li>· 802.11b: DQPSK, DBPSK, DSSS, CCK</li><li>· 802.11g: BPSK, QPSK, 16QAM, 64QAM with OFDM</li><li>· 802.11n: BPSK, QPSK, 16QAM, 64QAM with OFDM</li></ul>
<b>Physical Parameters</b>	
<b>Dimensions (L x W x H)</b>	<ul style="list-style-type: none"><li>· 194 x 59 x 120 mm (7.7 x 2.3 x 4.7 in)</li></ul>
<b>Weight</b>	<ul style="list-style-type: none"><li>· 300 g (0.66 lb)</li></ul>
<b>Operating Environment</b>	
<b>Power</b>	<ul style="list-style-type: none"><li>· Output: 12V DC, 1.2A</li></ul>
<b>Temperature</b>	<ul style="list-style-type: none"><li>· Operating: from 0 to 40 °C</li><li>· Storage: from -20 to 65 °C</li></ul>
<b>Humidity</b>	<ul style="list-style-type: none"><li>· Operating: from 10% to 90% (non-condensing)</li><li>· Storage: from 5% to 95% (non-condensing)</li></ul>
<b>Delivery Package</b>	
<ul style="list-style-type: none"><li>· Router DIR-825</li><li>· Power adapter DC 12V/1.2A</li><li>· Ethernet cable</li><li>· "Quick Installation Guide" (brochure)</li></ul>	

<b>Supported USB modems<sup>3</sup></b>	
<b>GSM</b>	<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-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 E352 (Megafon)</li> <li>· Prolink PHS600</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>
<b>LTE</b>	<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>· MTS 824F</li> <li>· MTS 827F</li> <li>· Quanta 1K6E (Beeline 1K6E)</li> <li>· Yota LU-150</li> <li>· Yota WLTUBA-107</li> <li>· ZTE MF823</li> <li>· ZTE MF827</li> </ul>
<b>Smartphones in USB tethering mode</b>	<ul style="list-style-type: none"> <li>· Some models of Android smartphones</li> </ul>

*Specifications are subject to change without notice.  
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<sup>3</sup> The manufacturer does not guarantee proper operation of the router with every modification of the firmware of USB modems.