

## Product Highlights

### 802.11N

High connection rate  
(up to 150Mbps)  
and superior wireless range

### 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-320

### Wireless N150 Router with 3G/CDMA/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-320 device, you are able to quickly create a wireless network at home or in your office, which lets your relatives or employees connect to your wireless network 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 (at the rate up to 150Mbps).

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.

#### 4-port Switch

The built-in 4-port switch enables you to connect Ethernet-enabled computers, game consoles, and other devices to your network.

#### Security

The wireless router DIR-320 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.

#### Easy configuration and update

You can configure the settings of the wireless router DIR-320 via the user-friendly web-based interface (the interface is available in several languages).

Now 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>Interfaces</b>	<ul style="list-style-type: none"> <li>· 10/100BASE-TX WAN 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>· WPS</li> <li>· INTERNET</li> <li>· WLAN</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>· Internal antenna (3.75dBi gain)</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 / Dynamic IP</li> <li>· PPTP/L2TP + Static IP</li> <li>· PPTP/L2TP + Dynamic IP</li> </ul>
<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>· Flow control</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>

Software	
<b>USB interface functions</b>	<ul style="list-style-type: none"> <li>· USB modem Auto configuration of connection upon plugging in USB modem<sup>1</sup> Auto connection to available type of supported network (4G/3G/2G)<sup>2</sup> Enabling/disabling PIN code check, changing PIN code<sup>3</sup></li> <li>· USB storage File browser Print server Access to storage via accounts Built-in Samba server Built-in FTP server Built-in 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>· Multilingual web-based interface for configuration and management</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 remote logging</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>

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/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>· Managing connected stations</li> <li>· Advanced settings</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 (typical at room temperature 25 °C) 17dBm (+/-1.5dB) at 1, 2, 5.5, 11Mbps</li> <li>· 802.11g (typical at room temperature 25 °C) 17dBm (+/-1.5dB) at 6, 9, 12Mbps 16dBm (+/-1.5dB) at 18, 24Mbps 15dBm (+/-1.5dB) at 36, 48, 54Mbps</li> <li>· 802.11n (typical at room temperature 25 °C) HT20/HT40 16.5dBm (+/-1.5dB) at MCS0/1/2 16dBm (+/-1.5dB) at MCS3/4 15.5dBm (+/-1.5dB) at MCS5 15dBm (+/-1.5dB) at MCS6 14dBm (+/-1.5dB) at MCS7</li> </ul>

1 For LTE and GSM USB modems.

2 For LTE and GSM USB modems.

3 For GSM USB modems only.

Wireless Module Parameters	
<b>Receiver sensitivity</b>	<ul style="list-style-type: none"> <li>· 802.11b (typical at PER = 8% (1000-byte PDUs) at room temperature 25 °C)               <ul style="list-style-type: none"> <li>-82dBm at 1Mbps</li> <li>-80dBm at 2Mbps</li> <li>-78dBm at 5.5Mbps</li> <li>-76dBm at 11Mbps</li> </ul> </li> <li>· 802.11g (typical at PER = 10% (1000-byte PDUs) at room temperature 25 °C)               <ul style="list-style-type: none"> <li>-85dBm at 6Mbps</li> <li>-84dBm at 9Mbps</li> <li>-82dBm at 12Mbps</li> <li>-80dBm at 18Mbps</li> <li>-77dBm at 24Mbps</li> <li>-73dBm at 36Mbps</li> <li>-69dBm at 48Mbps</li> <li>-68dBm at 54Mbps</li> </ul> </li> <li>· 802.11n (typical at PER = 10% (1000-byte PDUs))               <ul style="list-style-type: none"> <li>HT20                   <ul style="list-style-type: none"> <li>-82dBm at MCS0</li> <li>-79dBm at MCS1</li> <li>-77dBm at MCS2</li> <li>-74dBm at MCS3</li> <li>-70dBm at MCS4</li> <li>-66dBm at MCS5</li> <li>-65dBm at MCS6</li> <li>-64dBm at MCS7</li> </ul> </li> <li>HT40                   <ul style="list-style-type: none"> <li>-79dBm at MCS0</li> <li>-76dBm at MCS1</li> <li>-74dBm at MCS2</li> <li>-71dBm at MCS3</li> <li>-67dBm at MCS4</li> <li>-63dBm at MCS5</li> <li>-62dBm at MCS6</li> <li>-61dBm at MCS7</li> </ul> </li> </ul> </li> </ul>
<b>Modulation schemes</b>	<ul style="list-style-type: none"> <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>

Physical Parameters	
<b>Dimensions</b>	· 160 x 120 x 59 mm (6.3 x 4.7 x 2.3 in)
<b>Weight</b>	· 220 g (0.49 lb)

Operating Environment	
<b>Power</b>	· Output: 12V DC, 1A
<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>

Delivery Package	
<ul style="list-style-type: none"> <li>· Router DIR-320</li> <li>· Power adapter DC 12V/1A</li> <li>· Ethernet cable</li> <li>· "Quick Installation Guide" (brochure)</li> </ul>	

Supported USB modems <sup>4</sup>	
<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>· 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>· Huawei E367 (3G mode)</li> <li>· Huawei E392 (3G mode)</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>CDMA</b>	<ul style="list-style-type: none"> <li>· Airplus MCD-650</li> <li>· Airplus MCD-800</li> <li>· AnyDATA ADU-300A</li> <li>· AnyDATA ADU-500A</li> <li>· AnyDATA ADU-510A</li> <li>· Huawei EC306</li> <li>· ZTE AC5710</li> <li>· ZTE AC5730</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 E367</li> <li>· Huawei E392</li> <li>· Megafon M100-1</li> <li>· Megafon M100-3</li> <li>· Megafon M100-4</li> <li>· Megafon M150-1</li> <li>· MTS 824F</li> <li>· Yota LU-150</li> <li>· Yota WLTUBA-107</li> <li>· ZTE MF823</li> <li>· ZTE MF827</li> </ul>

*Specifications are subject to change without notice.  
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<sup>4</sup> The manufacturer does not guarantee proper operation of the router with every modification of the firmware of USB modems.