

Product Highlights

802.11N

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

SECURITY

Multiple firewall functions, several security standards for wireless connection

IPV6 SUPPORT

All needed functions for up-to-date networking



Wireless N150 Router

Wireless Interface

Using the DIR-300 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 (at the rate up to 150Mbps).

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.

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-300 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-300 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-300 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-300 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.

Specifications

	DIR-300S	DIR-300A
		
Hardware		
Processor	RTL8196E (400MHz)	RTL8196D (620MHz)
RAM	32MB, SDRAM	32MB, DDR SDRAM
Flash	4MB, SPI	
Interfaces	10/100BASE-TX WAN port 4 10/100BASE-TX LAN ports	
LEDs	POWER WLAN WPS INTERNET 4 LAN LEDs	POWER STATUS WLAN / WPS INTERNET 4 LAN LEDs
Buttons	ON/OFF button to power on/power off	POWER button to power on/power off
	RESET button to restore factory default settings WPS button to set up connection and enable/disable wireless network	
Antenna	External omnidirectional antenna	Internal omnidirectional antenna
	5dBi gain	2dBi gain
Power connector	Power input connector (DC)	
Software		
WAN connection types		
<i>PPPoE</i>	+	+
<i>IPv6 PPPoE</i>	+	+
<i>PPPoE Dual Stack</i>	+	+
<i>Static IPv4 / Dynamic IPv4</i>	+	+
<i>Static IPv6 / Dynamic IPv6</i>	+	+
<i>PPPoE + Static IP (PPPoE Dual Access)</i>	+	+
<i>PPPoE + Dynamic IP (PPPoE Dual Access)</i>	+	+
<i>PPTP/L2TP + Static IP</i>	+	+
<i>PPTP/L2TP + Dynamic IP</i>	+	+

DIR-300S

DIR-300A

Network functions

<i>DHCP server/relay</i>	+	+
<i>Stateful/Stateless mode for IPv6 address assignment, IPv6 prefix delegation</i>	+	+
<i>DNS relay</i>	+	+
<i>Dynamic DNS</i>	+	+
<i>Static IP routing</i>	+	+
<i>Static IPv6 routing</i>	+	+
<i>IGMP Proxy</i>	+	+
<i>RIP</i>	+	+
<i>Support of UPnP IGD</i>	+	+
<i>Support of VLAN</i>	+	+
<i>WAN ping respond</i>	+	+
<i>Support of SIP ALG</i>	+	+
<i>Support of RTSP</i>	+	+
<i>Autonegotiation of speed, duplex mode, and flow control/Manual speed and duplex mode setup for each Ethernet port</i>	+	+
<i>Setup of maximum TX rate for each port of the router</i>	+	+
<i>Built-in UDPXY application</i>	+	+

Firewall functions

<i>Network Address Translation (NAT)</i>	+	+
<i>Stateful Packet Inspection (SPI)</i>	+	+
<i>IP filter</i>	+	+
<i>IPv6 filter</i>	+	+
<i>MAC filter</i>	+	+
<i>URL filter</i>	+	+
<i>DMZ</i>	+	+
<i>Prevention of ARP and DDoS attacks</i>	+	+
<i>Virtual servers</i>	+	+
<i>Built-in Yandex.DNS web content filtering service</i>	+	+

VPN

<i>IPsec/PPTP/L2TP/PPPoE pass-through</i>	+	+
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Management

<i>Local and remote access to settings</i>	TELNET/WEB (HTTP/HTTPS)	
<i>Multilingual web-based interface for configuration and management</i>	+	+

	DIR-300S	DIR-300A
<i>Support of Click'n'Connect application for Android smartphones</i>	+	+
<i>Notification on connection problems and auto redirect to settings</i>	+	+
<i>Firmware update via web-based interface</i>	+	+
<i>Automatic notification on new firmware version</i>	+	+
<i>Saving/restoring configuration to/from file</i>	+	+
<i>Support of logging to remote host</i>	+	+
<i>Automatic synchronization of system time with NTP server and manual time/date setup</i>	+	+
<i>Ping utility</i>	+	+
<i>Traceroute utility</i>	+	+
<i>TR-069 client</i>	+	+
Wireless Module Parameters		
Standards	IEEE 802.11b/g/n	
Frequency range	2400 ~ 2483.5MHz	
Wireless connection security		
<i>WEP</i>	+	+
<i>WPA/WPA2 (Personal/Enterprise)</i>	+	+
<i>MAC filter</i>	+	+
<i>WPS (PBC/PIN)</i>	+	+
Advanced functions		
<i>Support of client mode</i>	+	+
<i>WMM (Wi-Fi QoS)</i>	+	+
<i>Information on connected Wi-Fi clients</i>	+	+
<i>Advanced settings</i>	+	+
<i>Smart adjustment of Wi-Fi clients</i>	+	+
<i>Guest Wi-Fi / support of MBSSID</i>	+	+
<i>Limitation of wireless network rate</i>	+	+
<i>Periodic scan of channels, automatic switch to least loaded channel</i>	+	+
Wireless connection rate	IEEE 802.11b: 1, 2, 5.5, and 11Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, and 54Mbps IEEE 802.11n: from 6.5 to 150Mbps (from MCS0 to MCS7)	

DIR-300S

DIR-300A

Transmitter output power

<i>802.11b</i>	15dBm at 1, 2, 5.5, 11Mbps	17dBm at 1, 2, 5.5, 11Mbps
<i>802.11g</i>	15dBm at 6, 9, 12, 18, 24, 36, 48, 54Mbps	17dBm at 6, 9, 12Mbps 16dBm at 18, 24Mbps 15dBm at 36, 48, 54Mbps
<i>802.11n</i>	HT20/HT40 15dBm at MCS0/1/2/3/4/5/6 14dBm at MCS7	HT20/HT40 16,5dBm at MCS0/1/2 16dBm at MCS3/4 15,5dBm at MCS5 15dBm at MCS6 14dBm at MCS7

Receiver sensitivity

<i>802.11b</i>	-82dBm at 1Mbps -80dBm at 2Mbps -78dBm at 5.5Mbps -76dBm at 11Mbps
<i>802.11g</i>	-85dBm at 6Mbps -84dBm at 9Mbps -82dBm at 12Mbps -80dBm at 18Mbps -77dBm at 24Mbps -73dBm at 36Mbps -69dBm at 48Mbps -68dBm at 54Mbps
<i>802.11n</i>	HT20 -82dBm at MCS0 -79dBm at MCS1 -77dBm at MCS2 -74dBm at MCS3 -70dBm at MCS4 -66dBm at MCS5 -65dBm at MCS6 -64dBm at MCS7 HT40 -79dBm at MCS0 -76dBm at MCS1 -74dBm at MCS2 -71dBm at MCS3 -67dBm at MCS4 -63dBm at MCS5 -62dBm at MCS6 -61dBm at MCS7

Modulation schemes

<i>802.11b</i>	DQPSK, DBPSK, DSSS, CCK
<i>802.11g</i>	BPSK, QPSK, 16QAM, 64QAM with OFDM
<i>802.11n</i>	BPSK, QPSK, 16QAM, 64QAM with OFDM

	DIR-300S	DIR-300A
Physical Parameters		
Dimensions (L x W x H)	175 x 123 x 31 mm (7 x 5 x 1 in)	83 x 98 x 134 mm (3.3 x 3.9 x 5.3 in)
Weight	249 g (0.5 lb)	202 g (0.45 lb)
Operating Environment		
Power	Output: 12V DC, 0.5A	
Temperature	Operating: from 0 to 40 °C Storage: from -20 to 65 °C	
Humidity	Operating: from 10% to 90% (non-condensing) Storage: from 5% to 95% (non-condensing)	
Delivery Package		
	Router Power adapter DC 12V/0.5A Ethernet cable "Quick Installation Guide" (brochure)	

Ordering Information

DIR-300S

Wireless N150 Router



DIR-300A

Wireless N150 Router

