D-Link
Building Networks for People

DIR-651

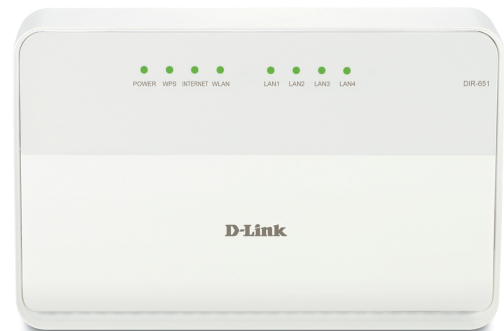## Product Highlights

802.11N
High connection rate (up to 300Mbps) and superior wireless range

GIGABIT ETHERNET
High rate for wired connection (up to 1Gbps)

IPV6 SUPPORT
All needed functions for up-to-date networking

Wireless N300 Gigabit Router

Wireless Interface

Using the DIR-651 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 300Mbps).

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-651 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-651 via the user-friendly web-based interface (the interface is available in several languages).

Also DIR-651 supports configuration and management via D-Link Click'n'Connect mobile application for Android smartphones.[1]

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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1   For DIR-651/A/B only.

Specifications

	DIR-651/A/B	DIR-651/A/A
Hardware		
Interfaces	10/100/1000BASE-T WAN port 4 10/100/1000BASE-T LAN ports	
LEDs	POWER WPS INTERNET WLAN 4 LAN LEDs	POWER INTERNET WLAN 4 LAN LEDs WPS
Buttons	ON/OFF button to power on/power off	–
	RESET button to restore factory default settings WPS button to set up secure wireless connection and enable/disable wireless network	
Antenna	Two internal omnidirectional antennas (3.75dBi gain)	Two external non-detachable omnidirectional antennas (2dBi gain)
MIMO	2 x 2	
Power connector	Power input connector (DC)	

DIR-651 Wireless N300 Gigabit Router

	DIR-651/A/B	DIR-651/A/A
Software		
WAN connection types		
PPPoE	+	+
IPv6 PPPoE	+	+
PPPoE Dual Stack	+	+
Static IP / Dynamic IP	+	+
Static IPv6 / Dynamic IPv6	+	+
PPPoE + Static IP/Dynamic IP	+	+
PPTP/L2TP + Static IP	+	+
PPTP/L2TP + Dynamic IP	+	+
Network functions		
DHCP server/relay	+	+
DHCPv6 server (Stateful/Stateless), IPv6 prefix delegation	+	+
DNS relay	+	+
Support of DNSv6 AAAA records	+	+
Dynamic DNS	+	+
Static IP routing	+	+
Static IPv6 routing	+	+
IGMP Proxy	+	+
RIP	+	+
Support of UPnP IGD	+	+
Support of VLAN	+	+
WAN ping respond	+	+
Support of SIP ALG	+	+
Support of RTSP	+	+
Autonegotiation of speed, duplex mode, and flow control/Manual speed and duplex mode setup for each Ethernet port	+	+
Setup of maximum TX rate for each port of the router	+	+
Built-in UDPXY application	+	+

	DIR-651/A/B	DIR-651/A/A
Firewall functions		
Network Address Translation (NAT)	+	+
Stateful Packet Inspection (SPI)	+	+
IP filter	+	+
IPv6 filter	+	+
MAC filter	+	+
URL filter	+	+
DMZ	+	+
Prevention of ARP and DDoS attacks	+	+
Virtual servers	+	+
Built-in Yandex.DNS web content filtering service	+	+
VPN		
IPSec/PPTP/L2TP/PPPoE pass-through	+	+
Management		
Local and remote access to settings through TELNET/WEB (HTTP/HTTPS)	+	+
Multilingual web-based interface for configuration and management	+	+
Support of Click'n'Connect application for Android smartphones	+	–
Notification on connection problems and auto redirect to settings	+	+
Firmware update via web-based interface	+	+
Automatic notification on new firmware version	+	+
Saving/restoring configuration to/from file	+	+
Support of remote logging	+	+
Automatic synchronization of system time with NTP server and manual time/date setup	+	+
Ping function	+	+
Traceroute utility	+	+
TR-069 client	+	+

	DIR-651/A/B	DIR-651/A/A
Wireless Module Parameters		
Standards	IEEE 802.11b/g/n	
Frequency range	2400 ~ 2483.5MHz	
Wireless connection security		
WEP	+	+
WPA/WPA2 (Personal/Enterprise)	+	+
MAC filter	+	+
WPS (PBC/PIN)	+	+
Advanced functions		
Support of client mode	+	+
WMM (Wi-Fi QoS)	+	+
Information on connected Wi-Fi clients	+	+
Advanced settings	+	+
Smart adjustment of Wi-Fi clients	+	+
Guest Wi-Fi / support of MBSSID	+	+
Limitation of wireless network rate	+	+
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 300Mbps (from MCS0 to MCS15)	
Transmitter output power		
802.11b	17dBm at 1, 2, 5,5, 11Mbps	16dBm at 1, 2, 5,5, 11Mbps
802.11g	14,5dBm at 6, 9, 12, 18, 24, 36, 48, 54Mbps	14dBm at 6, 9, 12, 18, 24, 36, 48, 54Mbps
802.11n	HT20 14dBm at MCS6/7 HT40 14dBm at MCS6/7	13dBm at MCS0/1/2/3/4/5/6/7
Receiver sensitivity		
802.11b	-82dBm at 1Mbps -78dBm at 5,5Mbps -76dBm at 11Mbps	-87dBm at 1, 2Mbps -85dBm at 5,5Mbps -82dBm at 11Mbps
802.11g	-82dBm at 6Mbps -81dBm at 9Mbps -79dBm at 12Mbps -77dBm at 18Mbps -74dBm at 24Mbps -70dBm at 36Mbps -66dBm at 48Mbps -65dBm at 54Mbps	

	DIR-651/A/B	DIR-651/A/A
802.11n	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	
Modulation schemes		
802.11b	DQPSK, DBPSK, DSSS, CCK	
802.11g	BPSK, QPSK, 16QAM, 64QAM with OFDM	
802.11n	BPSK, QPSK, 16QAM, 64QAM with OFDM	
Physical Parameters		
Dimensions (L x W x H)	194 x 60 x 120 mm (7.6 x 2.4 x 4.7 in)	147.5 x 113 x 31.5 mm (5.81 x 4.5 x 2.3 in)
Weight	300 g (0.66 lb)	218 g (0.48 lb)
Operating Environment		
Power	Output: 12V DC, 1.2A	Output: 5V DC, 2.5A
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 DIR-651 Power adapter DC 12V/1.2A Ethernet cable "Quick Installation Guide" (brochure)	Router DIR-651 Power adapter DC 5V/2.5A Ethernet cable "Quick Installation Guide" (brochure)

Ordering Information

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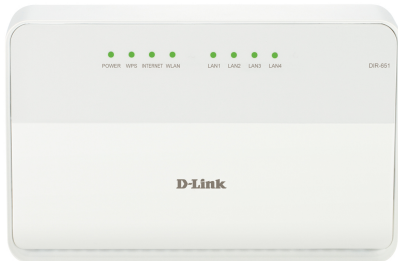
DIR-651/A/A   Wireless N300 Gigabit Router