

Product Highlights

DUAL BAND

Simultaneous operation in 5GHz band and 2.4GHz band, 802.11a/b/g/n compatible

HIGH SPEED

Total wireless connection rate up to 600Mbps

IPV6 SUPPORT

All needed functions for up-to-date networking



DIR-815

Wireless N600 Dual Band Router

Wireless Interface

Using the DIR-815 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 rate up to 600Mbps¹).

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.

¹ Up to 300Mbps for 2.4GHz and up to 300Mbps for 5GHz.

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-815 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.

In addition, the router supports IPsec and allows to create secure VPN tunnels.

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-815 via the user-friendly web-based interface (the interface is available in several languages).

Also DIR-815 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	
Processor	<ul style="list-style-type: none"> RTL8197D (660MHz)
RAM	<ul style="list-style-type: none"> 64MB, DDR2
Flash	<ul style="list-style-type: none"> 8MB, SPI
Interfaces	<ul style="list-style-type: none"> 10/100BASE-TX WAN port 4 10/100BASE-TX LAN ports
LEDs	<ul style="list-style-type: none"> POWER WPS INTERNET 2.4GHz 5GHz 4 LAN LEDs
Buttons	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Two internal dual band antennas (4dBi gain for 2.4GHz and 6dBi gain for 5GHz)
MIMO	<ul style="list-style-type: none"> 2 x 2
Power connector	<ul style="list-style-type: none"> Power input connector (DC)

Software	
WAN connection types	<ul style="list-style-type: none"> 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

Software	
Network functions	<ul style="list-style-type: none"> · Support of IEEE 802.1X for Internet connection · 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 · Built-in UDPXY application
Firewall functions	<ul style="list-style-type: none"> · 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	<ul style="list-style-type: none"> · IPSec/PPTP/L2TP/PPPoE pass-through · IPSec tunnels
Management	<ul style="list-style-type: none"> · 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 utility · Traceroute utility · TR-069 client

Wireless Module Parameters	
Standards	<ul style="list-style-type: none"> · IEEE 802.11a/n · IEEE 802.11b/g/n
Frequency range	<ul style="list-style-type: none"> · 2400 ~ 2483.5MHz · 5150 ~ 5350MHz · 5650 ~ 5725MHz
Wireless connection security	<ul style="list-style-type: none"> · WEP · WPA/WPA2 (Personal/Enterprise) · MAC filter · WPS (PBC/PIN)
Advanced functions	<ul style="list-style-type: none"> · 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 · Periodic scan of channels, automatic switch to least loaded channel
Wireless connection rate	<ul style="list-style-type: none"> · IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, and 54Mbps · IEEE 802.11b: 1, 2, 5.5, and 11Mbps · IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, and 54Mbps · IEEE 802.11n (2.4GHz/5GHz): from 6.5 to 300Mbps (from MCS0 to MCS15)

Wireless Module Parameters	
<p>Transmitter output power</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"> · 802.11a (typical at room temperature 25 °C) 14dBm (+/-1.5dB) at 6, 9, 12, 18, 24Mbps 13dBm (+/-1.5dB) at 36, 48, 54Mbps · 802.11b (typical at room temperature 25 °C) 16dBm (+/-1.5dB) at 1, 2, 5.5, 11Mbps · 802.11g (typical at room temperature 25 °C) 16dBm (+/-1.5dB) at 6, 9, 12, 18, 24Mbps 15dBm (+/-1.5dB) at 36, 48, 54Mbps · 802.11n (typical at room temperature 25 °C) 2.4GHZ, HT20 16.5dBm (+/-1.5dB) at MCS0/1/2/8/9/10 16dBm (+/-1.5dB) at MCS3/4/11/12 15.5dBm (+/-1.5dB) at MCS5/13 15dBm (+/-1.5dB) at MCS6/14 14dBm (+/-1.5dB) at MCS7/15 2.4GHZ, HT40 16.5dBm (+/-1.5dB) at MCS0/1/2/8/9/10 16dBm (+/-1.5dB) at MCS3/4/11/12 15.5dBm (+/-1.5dB) at MCS5/13 15dBm (+/-1.5dB) at MCS6/14 14dBm (+/-1.5dB) at MCS7/15
<p>Receiver sensitivity</p>	<ul style="list-style-type: none"> · 802.11a (typical at PER = 10% (1000-byte PDUs) at room temperature 25 °C) -85dBm at 6Mbps -84dBm at 9Mbps -82dBm at 12Mbps -80dBm at 18Mbps -77dBm at 24Mbps -73dBm at 36Mbps -69dBm at 48Mbps -68dBm at 54Mbps · 802.11b (typical at PER = 8% (1000-byte PDUs) at room temperature 25 °C) -82dBm at 1Mbps -80dBm at 2Mbps -78dBm at 5.5Mbps -76dBm at 11Mbps · 802.11g (typical at PER = 10% (1000-byte PDUs) at room temperature 25 °C) -85dBm at 6Mbps -84dBm at 9Mbps -82dBm at 12Mbps -80dBm at 18Mbps -77dBm at 24Mbps -73dBm at 36Mbps -69dBm at 48Mbps -68dBm at 54Mbps · 802.11n (typical at PER = 10% (1000-byte PDUs)) 2.4GHz, 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 2.4GHz, 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

Wireless Module Parameters	
Modulation schemes	<ul style="list-style-type: none">· 802.11a: BPSK, QPSK, 16QAM, 64QAM with OFDM· 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)	<ul style="list-style-type: none">· 160 x 59 x 120 mm (6.3 x 2.3 x 4.7 in)
Weight	<ul style="list-style-type: none">· 220 g (0.50 lb)

Operating Environment	
Power	<ul style="list-style-type: none">· Output: 12V DC, 0.5A
Temperature	<ul style="list-style-type: none">· Operating: from 0 to 40 °C· Storage: from -20 to 65 °C
Humidity	<ul style="list-style-type: none">· Operating: from 10% to 90% (non-condensing)· Storage: from 5% to 95% (non-condensing)

Delivery Package	
	<ul style="list-style-type: none">· Router DIR-815· Power adapter DC 12V/0.5A· Ethernet cable· "Quick Installation Guide" (brochure)