

Product Highlights

High Speed networking

Total wireless connection rate of up to 750Mbps for effortless connectivity whether you're surfing the web or using it for bandwidth heavy gaming.

Dual Band for reduced interference

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

IPV6 Support

All needed functions for up-to-date networking today and for the future.



DIR-806A

Wireless AC750 Dual-Band Router

Features

Connectivity

- Uses the latest Wireless AC technology to deliver blazing fast wireless connectivity with increased range and reliability
- Concurrent dual-band wireless for combined connection speeds of up to 750 Mbps
- 10/100 Fast Ethernet WAN port for speedy Internet access
- 4x 10/100 Fast Ethernet LAN ports give you high-speed wired connectivity

Security

- Wi-Fi Protected Setup (WPS) to quickly and securely add devices to your network
- WPA/WPA2 encryption
- IPsec and VPN tunnels

Ease of Use

- Web browser-based setup and configuration
- One page setup wizard to guide you through the configuration process

Using the DIR-806A 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.

Dual Band Wireless AC for Seamless Performance

The DIR-806A Wireless AC750 Dual Band Router gives you lightning-fast combined wireless speeds of up to 750 Mbps and increased range. Using dual-band wireless, it allows you to operate two concurrent, high-speed Wi-Fi bands for ultimate wireless performance. Surf the web, chat, and play online games on the 2.4 GHz band, while simultaneously streaming digital media on the 5 GHz band. What's more, each band can operate as a separate Wi-Fi network, giving you the ability to customize your network according to your connectivity needs. You can even configure a guest zone to give visitors Internet access without giving them access to the rest of your network.

Easy configuration and update

You can configure the settings of the wireless router DIR-806A 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-806A 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-806A supports configuration and management via mobile application for Android and iPhone 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.

Advanced Capabilities of Wireless Network

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.

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.

Security

The DIR-806A router supports multiple functions for the wireless interface: several security standards (WEP, WPA/WPA2), MAC address filtering, WPS, WMM.

The wireless router DIR-806A also 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.

Technical Specifications

Hardware	
Device Interface	<ul style="list-style-type: none"> • 1x 10/100BASE-TX WAN port • 4x 10/100BASE-TX LAN ports
LEDs	<ul style="list-style-type: none"> • Power • Internet • 4 LAN LEDs • 2.4G WLAN • 5G WLAN • WPS
Buttons	<ul style="list-style-type: none"> • POWER button to power on/power off • WIFI button to enable/disable wireless network • WPS button to set up wireless connection • RESET button to restore factory default settings
Antenna	<ul style="list-style-type: none"> • 2x external non-detachable antennas (5dBi gain for 2.4GHz and 5GHz) • 1x internal antenna (3dBi gain for 2.4GHz)
MIMO	<ul style="list-style-type: none"> • 2 x 2 (for 2.4GHz)
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 IPv4 / Dynamic IPv4 • Static IPv6 / Dynamic IPv6 • PPPoE + Static IP (PPPoE Dual Access) • PPPoE + Dynamic IP (PPPoE Dual Access) • PPTP/L2TP + Static IP • PPTP/L2TP + Dynamic IP
Network functions	<ul style="list-style-type: none"> • Support of IEEE 802.1X for Internet connection • DHCP server/relay • Advanced configuration of built-in DHCP server • Stateful/Stateless mode for IPv6 address assignment, IPv6 prefix delegation • Automatic obtainment of LAN IP address (for access point/repeater/client modes) • DNS relay • 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 • WAN reservation • 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

Software																																									
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) • Bilingual web-based interface for configuration and management (Russian/English) • Support of D-Link Assistant application for Android and iPhone 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 logging to remote host • Automatic synchronization of system time with NTP server and manual time/date setup • Ping utility • Traceroute utility • TR-069 client • SNMP agent 																																								
Wireless Module Parameters																																									
Standards	<ul style="list-style-type: none"> • IEEE 802.11a/n/ac • 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 • Rate limitation for wireless network • Periodic scan of channels, automatic switch to least loaded channel • Autonegotiation of channel bandwidth in accordance with environment conditions (20/40 Coexistence) 																																								
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) • IEEE 802.11ac (5GHz): from 6.5 to 433Mbps (from MCS0 to MCS9) 																																								
Transmitter output power <i>The maximum value of the transmitter output power depends upon the radio frequency regulations applied in your country</i>	<table border="0"> <tr> <td>802.11a (typical at room temperature 25 °C)</td> <td>HT80</td> </tr> <tr> <td>15dBm at 6~24Mbps</td> <td>15dBm at MCS0~4</td> </tr> <tr> <td>14dBm at 36Mbps</td> <td>14dBm at MCS5~6</td> </tr> <tr> <td>13dBm at 48~54Mbps</td> <td>13dBm at MCS7</td> </tr> <tr> <td>• 802.11b (typical at room temperature 25 °C)</td> <td>12dBm at MCS8~9</td> </tr> <tr> <td>15dBm at 1, 2, 5.5, 11Mbps</td> <td>• 802.11n (typical at room temperature 25 °C)</td> </tr> <tr> <td>• 802.11g (typical at room temperature 25 °C)</td> <td>2.4GHz</td> </tr> <tr> <td>15dBm at 6~36Mbps</td> <td>HT20/HT40</td> </tr> <tr> <td>14dBm at 48~54Mbps</td> <td>15dBm at MCS0~6</td> </tr> <tr> <td>• 802.11ac (typical at room temperature 25 °C)</td> <td>14dBm at MCS7</td> </tr> <tr> <td>HT20</td> <td>5GHz</td> </tr> <tr> <td>15dBm at MCS0~4</td> <td>HT20</td> </tr> <tr> <td>14dBm at MCS5</td> <td>15dBm at MCS0~5</td> </tr> <tr> <td>13dBm at MCS6</td> <td>14.5dBm at MCS6</td> </tr> <tr> <td>12dBm at MCS7~8</td> <td>14dBm at MCS7</td> </tr> <tr> <td>HT40</td> <td>HT40</td> </tr> <tr> <td>15dBm at MCS0~2</td> <td>15dBm at MCS0~4</td> </tr> <tr> <td>14dBm at MCS3~4</td> <td>14.5dBm at MCS5~6</td> </tr> <tr> <td>13dBm at MCS5~6</td> <td>14dBm at MCS7</td> </tr> <tr> <td>12dBm at MCS7~9</td> <td></td> </tr> </table>	802.11a (typical at room temperature 25 °C)	HT80	15dBm at 6~24Mbps	15dBm at MCS0~4	14dBm at 36Mbps	14dBm at MCS5~6	13dBm at 48~54Mbps	13dBm at MCS7	• 802.11b (typical at room temperature 25 °C)	12dBm at MCS8~9	15dBm at 1, 2, 5.5, 11Mbps	• 802.11n (typical at room temperature 25 °C)	• 802.11g (typical at room temperature 25 °C)	2.4GHz	15dBm at 6~36Mbps	HT20/HT40	14dBm at 48~54Mbps	15dBm at MCS0~6	• 802.11ac (typical at room temperature 25 °C)	14dBm at MCS7	HT20	5GHz	15dBm at MCS0~4	HT20	14dBm at MCS5	15dBm at MCS0~5	13dBm at MCS6	14.5dBm at MCS6	12dBm at MCS7~8	14dBm at MCS7	HT40	HT40	15dBm at MCS0~2	15dBm at MCS0~4	14dBm at MCS3~4	14.5dBm at MCS5~6	13dBm at MCS5~6	14dBm at MCS7	12dBm at MCS7~9	
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Software	
Receiver sensitivity	<ul style="list-style-type: none"> • 802.11a (typical at PER < 10% (1000-byte PDUs) at room temperature 25 °C) <ul style="list-style-type: none"> - 84dBm at 6Mbps - 83dBm at 9Mbps - 81dBm at 12Mbps - 79dBm at 18Mbps - 76dBm at 24Mbps - 72dBm at 36Mbps - 68dBm at 48Mbps - 67dBm at 54Mbps • 802.11b (typical at PER = 8% (1000-byte PDUs) at room temperature 25 °C) <ul style="list-style-type: none"> -87dBm at 1, 2Mbps -81dBm at 5.5, 11Mbps • 802.11g (typical at PER < 10% (1000-byte PDUs) at room temperature 25 °C) <ul style="list-style-type: none"> - 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) at room temperature 25 °C) <ul style="list-style-type: none"> 2.4GHz, HT20 <ul style="list-style-type: none"> - 85dBm at MCS0 - 81dBm at MCS1 - 80dBm at MCS2 - 77dBm at MCS3 - 73dBm at MCS4 - 69dBm at MCS5 - 68dBm at MCS6 - 67dBm at MCS7 2.4GHz, HT40 <ul style="list-style-type: none"> - 81dBm at MCS0 - 79dBm at MCS1 - 77dBm at MCS2 - 74dBm at MCS3 - 70dBm at MCS4 - 66dBm at MCS5 - 65dBm at MCS6 - 64dBm at MCS7 5GHz, HT20 <ul style="list-style-type: none"> - 85dBm at MCS0 - 82dBm at MCS1 - 80dBm at MCS2 • 802.11ac (typical at PER = 10% (1000-byte PDUs) at room temperature 25 °C) <ul style="list-style-type: none"> 5GHz, HT40 <ul style="list-style-type: none"> - 77dBm at MCS3 - 73dBm at MCS4 - 69dBm at MCS5 - 64dBm at MCS7 5GHz, HT20 <ul style="list-style-type: none"> - 85dBm at MCS0 - 82dBm at MCS1 - 80dBm at MCS2 - 77dBm at MCS3 - 73dBm at MCS4 - 69dBm at MCS5 - 68dBm at MCS6 - 67dBm at MCS7 - 59dBm at MCS8 HT40 <ul style="list-style-type: none"> - 83dBm at MCS0 - 80dBm at MCS1 - 78dBm at MCS2 - 75dBm at MCS3 - 71dBm at MCS4 - 67dBm at MCS5 - 66dBm at MCS6 - 65dBm at MCS7 - 60dBm at MCS8 - 58dBm at MCS9 HT80 <ul style="list-style-type: none"> - 80dBm at MCS0 - 77dBm at MCS1 - 75dBm at MCS2 - 72dBm at MCS3 - 68dBm at MCS4 - 64dBm at MCS5 - 63dBm at MCS6 - 61dBm at MCS7 - 56dBm at MCS8 - 54dBm at MCS9
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 • 802.11ac: BPSK, QPSK, 16QAM, 64QAM, up to 256QAM with OFDM
Physical Parameters	
Dimensions (L x W x H)	<ul style="list-style-type: none"> • 205 x 136 x 33 mm (8.1 x 5.4 x 1.3 in)
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)