

Product Highlights

HIGH SPEED

Total wireless connection rate up to 750Mbps

DUAL BAND

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



DIR-806A

AC750 Wi-Fi Router

Wireless Interface

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. The router can operate as a base station for connecting wireless devices of the standards 802.11a, 802.11b, 802.11g, 802.11n, and 802.11ac (at the wireless connection rate up to 733Mbps¹).

Secure Wireless Connection

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

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 wireless router DIR-806A 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-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.

¹ Up to 300Mbps for 2.4GHz and up to 433Mbps for 5GHz.

Hardware	
Processor	<ul style="list-style-type: none"> MTK7620DA (480 MHz)
RAM	<ul style="list-style-type: none"> 64MB, DDR2, built in processor
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 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"> Two external non-detachable antennas (5dBi gain for 2.4GHz and 5GHz) One 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
VPN	<ul style="list-style-type: none"> IPsec/PPTP/L2TP/PPPoE pass-through IPsec tunnels

Software	
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 The maximum value of the transmitter output power depends upon the radio frequency regulations applied in your country	<ul style="list-style-type: none"> 802.11a (typical at room temperature 25 °C) <ul style="list-style-type: none"> 15dBm at 6~24Mbps 14dBm at 36Mbps 13dBm at 48~54Mbps 802.11b (typical at room temperature 25 °C) <ul style="list-style-type: none"> 15dBm at 1, 2, 5.5, 11Mbps 802.11g (typical at room temperature 25 °C) <ul style="list-style-type: none"> 15dBm at 6~36Mbps 14dBm at 48~54Mbps 802.11n (typical at room temperature 25 °C) <ul style="list-style-type: none"> 2.4GHz <ul style="list-style-type: none"> HT20/HT40 15dBm at MCS0~6 14dBm at MCS7 5GHz <ul style="list-style-type: none"> HT20 15dBm at MCS0~5 14.5dBm at MCS6 14dBm at MCS7 HT40 <ul style="list-style-type: none"> 15dBm at MCS0~4 14.5dBm at MCS5~6 14dBm at MCS7

Physical Parameters

Dimensions (L x W x H)	• 205 x 136 x 33 mm (8.1 x 5.4 x 1.3 in)
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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

<ul style="list-style-type: none">• Router DIR-806A• Power adapter DC 12V/0.5A• Ethernet cable• "Quick Installation Guide" (brochure)
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