D-Link
Building Networks for People

DIR-806A

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

Wireless AC750 Dual Band 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 733Mbps[1]).

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

Support of guest Wi-Fi network allows you to create a separate wireless network with individual security settings. 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.[2]

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 gateway 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.

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1   Up to 300Mbps for 2.4GHz and up to 433Mbps for 5GHz.
2   For DIR-806A/C1 only.

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 several languages).

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 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-806A/C1	DIR-806A/B1
Hardware		
Processor	MT7620A (580MHz)	
RAM	64MB, DDR2	
Flash	8MB, SPI	
Interfaces	10/100BASE-TX WAN port 4 10/100BASE-TX LAN ports	
LEDs	POWER 2.4G WLAN 5G WLAN INTERNET WPS	
Buttons	WPS/RESET button to set up wireless connection and restore factory default settings	
	ON/OFF button to power on/power off	
Antenna	Three external detachable antennas	Three external non-detachable antennas
	5dBi gain	
MIMO	2 x 2 (for 2.4GHz)	
Power connector	Power input connector (DC)	
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	+	+

	DIR-806A/C1	DIR-806A/B1
Network functions		
DHCP server/relay	+	+
Stateful/Stateless mode for IPv6 address assignment, IPv6 prefix delegation	+	+
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	+	+
Built-in UDPXY application	+	+
Autonegotiation of speed, duplex mode, and flow control/Manual speed and duplex mode setup for each Ethernet port	+	+
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	+	+

	DIR-806A/C1	DIR-806A/B1
VPN		
IPsec/PPTP/L2TP/PPPoE pass-through	+	+
IPsec tunnels	+	+
Management		
Local and remote access to settings	TELNET/WEB (HTTPS, HTTP)	
Multilingual web-based interface for configuration and management	+	+
Support of 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 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	IEEE 802.11a/n/ac IEEE 802.11b/g/n	
Frequency range	2400 ~ 2483.5MHz 5150 ~ 5350MHz 5650 ~ 5725MHz	
Wireless connection security		
WEP	+	+
WPA/WPA2 (Personal/Enterprise)	+	+
MAC filter	+	+
WPS (PBC/PIN)	+	+

	DIR-806A/C1	DIR-806A/B1
Advanced functions		
Support of client mode	+	+
WMM (Wi-Fi QoS)	+	+
Information on connected Wi-Fi clients	+	+
Advanced settings	+	+
Support of MBSSID	+	+
Guest Wi-Fi	+	−
Periodic scan of channels, automatic switch to least loaded channel	+	−
Wireless connection rate	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		
802.11a	15dBm at 6, 9, 12, 18, 24, 36, 48, 54Mbps	
802.11b	15dBm at 1, 2, 5.5, 11Mbps	
802.11g	15dBm at 6, 9, 12, 18, 24, 36, 48, 54Mbps	
802.11n	2.4GHz, HT20/HT40 15dBm at MCS0~15 5GHz, HT20/HT40 15dBm at MCS0~15	
802.11ac	VHT20 15dBm at MCS0~7 14.5dBm at MCS8 VHT40 15dBm at MCS0~7 14.5dBm at MCS8~9 VHT80 15dBm at MCS0~7 14.5dBm at MCS8~9	
Receiver sensitivity		
802.11a	-93dBm at 6Mbps -92dBm at 9Mbps -91dBm at 12Mbps -90dBm at 18Mbps -86dBm at 24Mbps -84dBm at 36Mbps -79dBm at 48Mbps -77dBm at 54Mbps	-82dBm at 6Mbps -81dBm at 9Mbps -79dBm at 12Mbps -77dBm at 18Mbps -74dBm at 24Mbps -70dBm at 36Mbps -66dBm at 48Mbps -65dBm at 54Mbps
802.11b	-98dBm at 1Mbps -95dBm at 2Mbps -93dBm at 5.5Mbps -90dBm at 11Mbps	-79dBm at 1, 2, 5.5, 11Mbps
802.11g	-91dBm at 6Mbps -90dBm at 9Mbps	-82dBm at 6Mbps -81dBm at 9Mbps

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DIR-806A   Wireless AC750 Dual Band Router

	DIR-806A/C1	DIR-806A/B1
	-88dBm at 12Mbps -86dBm at 18Mbps -84dBm at 24Mbps -81dBm at 36Mbps -76dBm at 48Mbps -74dBm at 54Mbps	-79dBm at 12Mbps -77dBm at 18Mbps -74dBm at 24Mbps -70dBm at 36Mbps -66dBm at 48Mbps -65dBm at 54Mbps
802.11n	2.4GHz, HT20 -90dBm at MCS0 -89dBm at MCS1 -87dBm at MCS2 -84dBm at MCS3 -81dBm at MCS4 -77dBm at MCS5 -75dBm at MCS6 -74dBm at MCS7 2.4GHz, HT40 -88dBm at MCS0 -86dBm at MCS1 -84dBm at MCS2 -81dBm at MCS3 -77dBm at MCS4 -74dBm at MCS5 -72dBm at MCS6 -70dBm at MCS7 5GHz, HT20 -92dBm at MCS0 -91dBm at MCS1 -90dBm at MCS2 -86dBm at MCS3 -84dBm at MCS4 -78dBm at MCS5 -77dBm at MCS6 -75dBm at MCS7 5GHz, HT40 -90dBm at MCS0 -89dBm at MCS1 -87dBm at MCS2 -84dBm at MCS3 -79dBm at MCS4 -76dBm at MCS5 -75dBm at MCS6 -73dBm at MCS7	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
802.11ac	VHT20 -92dBm at MCS0 -91dBm at MCS1 -90dBm at MCS2 -86dBm at MCS3 -84dBm at MCS4 -79dBm at MCS5 -77dBm at MCS6 -76dBm at MCS7 -71dBm at MCS8 VHT40 -90dBm at MCS0 -89dBm at MCS1	VHT20 -82dBm at MCS0 -79dBm at MCS1 -77dBm at MCS2 -74dBm at MCS3 -70dBm at MCS4 -66dBm at MCS5 -65dBm at MCS6 -64dBm at MCS7 -59dBm at MCS8 VHT40 -79dBm at MCS0 -76dBm at MCS1

	DIR-806A/C1	DIR-806A/B1
	-87dBm at MCS2	-74dBm at MCS2
	-84dBm at MCS3	-71dBm at MCS3
	-81dBm at MCS4	-67dBm at MCS4
	-76dBm at MCS5	-63dBm at MCS5
	-74dBm at MCS6	-62dBm at MCS6
	-73dBm at MCS7	-61dBm at MCS7
	-68dBm at MCS8	-56dBm at MCS8
	-66dBm at MCS9	-54dBm at MCS9
	VHT80	VHT80
	-85dBm at MCS0	-76dBm at MCS0
	-84dBm at MCS1	-73dBm at MCS1
	-83dBm at MCS2	-71dBm at MCS2
	-80dBm at MCS3	-68dBm at MCS3
	-76dBm at MCS4	-64dBm at MCS4
	-72dBm at MCS5	-60dBm at MCS5
	-70dBm at MCS6	-59dBm at MCS6
	-68dBm at MCS7	-58dBm at MCS7
	-63dBm at MCS8	-53dBm at MCS8
	-61dBm at MCS9	-51dBm at MCS9

Modulation schemes

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

Compatible equipment and accessories

Antennas

ANT24-0800	+	–
ANT24-0801	+	–
ANT24-0802	+	–
ANT24-0802C	+	–
ANT24-1200	+	–
ANT24-1201	+	–
ANT24-1202	+	–
ANT24-1400	+	–
ANT24-1800	+	–
ANT24-2100	+	–
ANT70-0800	+	–
ANT70-1000	+	–
ANT70-1400N	+	–
ANT70-1800	+	–

	DIR-806A/C1	DIR-806A/B1
Extension cable		
ANT24-CB03N (only with external antennas)	+	−
ANT24-CB06N (only with external antennas)	+	−
ANT24-CB09N (only with external antennas)	+	−
Lighting surge protector		
ANT70-SP (only with external antennas)	+	−
ANT-SP (only with external antennas)	+	−
Physical Parameters		
Dimensions (L x W x H)	192 x 108 x 30 mm (7.56 x 4.25 x 1.18 in)	192 x 108 x 30 mm (7.56 x 4.25 x 1.18 in)
Weight	240 g (0.53 lb)	240 g (0.53 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 DIR-806A Power adapter DC 12V/0.5A Ethernet cable "Quick Installation Guide" (brochure)	

Ordering Information

DIR-806A/C1
DIR-806A/B1   Wireless AC750 Dual Band Router