DIR-825/AC

Product Highlights

HIGH SPEED

Gigabit Ethernet ports, total wireless connection rate up to 1200Mbps

USB PORT

Support of USB modem for Internet connection via 4G/3G/2G network, USB storage, and printer

IPV6 SUPPORT

All needed functions for up-to-date networking

Wireless AC1200 Dual Band Gigabit Router with 3G/LTE Support and USB Port

USB Port

The router is equipped with a USB port for connecting a USB modem, which can be used to establish connection to the Internet. In addition, to the USB port of the router you can connect a USB storage device, which will be used as a network drive, or a printer.

Wireless Interface

Using the DIR-825/AC 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 1167Mbps[1]).

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

Transmit Beamforming technology allows to flexibly change the antennas' radiation pattern and to redistribute the signal directly to wireless devices connected to the router.

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.

4-port Switch

The built-in 4-port switch enables you to connect Ethernet-enabled computers, game consoles, and other devices to your network.

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[1] Up to 300Mbps for 2.4GHz and up to 867Mbps for 5GHz.

Security

The wireless router DIR-825/AC 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-825/AC via the user-friendly web-based interface (the interface is available in several languages).

The configuration wizard allows you to quickly switch DIR-825/AC 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-825/AC 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.

Specifications

	DIR-825/AC/G1	DIR-825/AC/E
Hardware		
Processor	RTL8197DN (660MHz)	
RAM	64MB, DDR2	
Flash	8MB, SPI	
Interfaces	10/100/1000BASE-T WAN port 4 10/100/1000BASE-T LAN ports USB 2.0 port	
LEDs	POWER INTERNET WPS 2.4G WLAN 5G WLAN 4 LAN LEDs USB	POWER/WPS STATUS WAN 4 LAN LEDs WLAN
Buttons	POWER button to power on/power off WPS button to set up secure wireless connection WIFI button to enable/disable wireless network	ON/OFF button to power on/power off WPS button to set up secure wireless connection and enable/disable wireless network
	RESET button to restore factory default settings	
Antenna	Four external non-detachable antennas	Two external non-detachable antennas
	5dBi gain	
MIMO	2 x 2	
Power connector	Power input connector (DC)	

	DIR-825/AC/G1	DIR-825/AC/E
Software		
WAN connection types		
LTE	+	+
3G	+	+
PPPoE	+	+
IPv6 PPPoE	+	+
PPPoE Dual Stack	+	+
Static IP / Dynamic IP	+	+
Static IPv6 / Dynamic IPv6	+	+
PPPoE + Static IP / Dynamic IP	+	+
PPTP/L2TP	+	+
PPTP/L2TP + Static IP	+	+
PPTP/L2TP + Dynamic IP	+	+
Network functions		
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	+	+
WAN reservation	+	+
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	+	+
Built-in XUPNPD application	+	+

	DIR-825/AC/G1	DIR-825/AC/E
Segmentation of traffic between LAN ports	+	–
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	+	+
IPSec tunnels	+	+
USB interface functions		
USB modem		
Auto connection to available type of supported network (4G/3G/2G)	+	+
Auto configuration of connection upon plugging in USB modem	+	+
Enabling/disabling PIN code check, changing PIN code[2]	+	+
USB storage		
File browser	+	+
Print server	+	+
Access to storage via accounts	+	+
Built-in Samba server	+	+
Built-in FTP server	+	+
Built-in DLNA server	+	+
Built-in Transmission torrent client; uploading/downloading files from/to USB storage	+	+

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2   For GSM USB modems and some models of LTE USB modems.

	DIR-825/AC/G1	DIR-825/AC/E
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 logging to remote host	+	+
Support of logging to connected USB storage	–	+
Automatic synchronization of system time with NTP server and manual time/date setup	+	+
Ping utility	+	+
Traceroute utility	+	+
TR-069 client	+	+
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)	+	+
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	+	+

	DIR-825/AC/G1	DIR-825/AC/E
Limitation of wireless network rate	+	+
Periodic scan of channels, automatic switch to least loaded channel	+	+
TX Beamforming Support	802.11ac (5GHz) 802.11n (2.4GHz)	
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 867Mbps (from MCS0 to MSC9)	
Transmitter output power		
802.11a	15dBm at 6, 9, 12, 18, 24, 36, 48Mbps 14dBm at 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 MCS0/1/2/3/4/5/6/8/9/10/11/12/13/14 14dBm at MCS7/15 5GHz, HT20/HT40 15dBm at MCS0/1/2/3/4/5/8/9/10/11/12/13 14dBm at MCS6/14 13dBm at MCS7/15	
802.11ac	VHT20 15dBm at MCS0/1/2/3/4/5 14dBm at MCS6 13dBm at MCS7 VHT40 15dBm at MCS0/1/2/3/4/5 14dBm at MCS6 13dBm at MCS7 VHT80 15dBm at MCS0/1/2/3 14dBm at MCS4/5 13dBm at MCS6 12dBm at MCS7 11dBm at MCS8/9	
Receiver sensitivity		
802.11a	-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	-83dBm at 1Mbps -80dBm at 2Mbps -79dBm at 5.5Mbps -76dBm at 11Mbps	

	DIR-825/AC/G1	DIR-825/AC/E
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	
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	
802.11ac	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 -59dBm at MCS8 -57dBm at MCS9 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 -56dBm at MCS8 -54dBm at MCS9 HT80 -76dBm at MCS0 -73dBm at MCS1 -71dBm at MCS2 -68dBm at MCS3 -64dBm at MCS4 -60dBm at MCS5 -59dBm at MCS6 -58dBm at MCS7 -53dBm at MCS8 -51dBm at MCS9	

	DIR-825/AC/G1	DIR-825/AC/E
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, 256QAM with OFDM	
Physical Parameters		
Dimensions (L x W x H)	200 x 132 x 50 mm (7.9 x 5.2 x 2 in)	195 x 155 x 35 mm (7.7 x 6.1 x 1.4 in)
Weight	360 g (0.8 lb)	250 g (0.55 lb)
Operating Environment		
Power	Output: 12V DC, 1.5A	
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-825/AC Power adapter DC 12V/1.5A Ethernet cable (CAT 5E) "Quick Installation Guide" (brochure)	

	DIR-825/AC/G1	DIR-825/AC/E
Supported USB modems[3]		
GSM		
Alcatel X500	+	+
D-Link DWM-152C1	+	+
D-Link DWM-156A6	+	+
D-Link DWM-156A7	+	+
D-Link DWM-156C1	+	+
D-Link DWM-157B1	+	+
D-Link DWM-157B1 (Velcom)	+	+
D-Link DWM-158D1	+	+
D-Link DWR-710	+	+
Huawei E150	+	+
Huawei E1550	+	+
Huawei E156G	+	+
Huawei E160G	+	+
Huawei E169G	+	+
Huawei E171	+	+
Huawei E173 (Megafon)	+	+
Huawei E220	+	+
Huawei E3131 (MTS 420S)	+	–
Huawei E352 (Megafon)	+	+
Prolink PHS600	+	+
ZTE MF112	+	+
ZTE MF192	+	+
ZTE MF626	+	+
ZTE MF627	+	+
ZTE MF652	+	+
ZTE MF667	+	+
ZTE MF668	+	+
ZTE MF752	+	+

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3   The manufacturer does not guarantee proper operation of the router with every modification of the firmware of USB modems.

	DIR-825/AC/G1	DIR-825/AC/E
LTE		
Huawei E3131	+	+
Huawei E3272	+	+
Huawei E3351	+	+
Huawei E3372	+	+
Huawei E367	+	+
Huawei E392	+	+
Megafon M100-1	+	+
Megafon M100-2	+	+
Megafon M100-3	+	+
Megafon M100-4	+	+
Megafon M150-1	+	+
Megafon M150-2	+	+
MTS 824F	+	+
MTS 827F	+	+
Quanta 1K6E (Beeline 1K6E)	+	+
Yota LU-150	+	+
Yota WLTUBA-107	+	+
ZTE MF823	+	+
ZTE MF827	+	+
Smartphones in USB tethering mode	Some models of Android smartphones	

D-Link Russia
Web: http://www.dlink.ru

Ordering Information

DIR-825/AC/G1   Wireless AC1200 Dual Band Gigabit Router with 3G/LTE Support and USB Port

DIR-825/AC/E   Wireless AC1200 Dual Band Gigabit Router with 3G/LTE Support and USB Port