

Product Highlights

HIGH SPEED Total wireless connection rate up to 1200Mbps¹

EXTREME WI-FI PERFORMANCE

MU-MIMO for best rates, 2 data streams for increased throughput

IPV6 SUPPORT All needed functions for up-to-date networking

for up-to-date networkir

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



DIR-815

AC1200 Wave 2 MU-MIMO Wi-Fi EasyMesh 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.

In order to use the multifunction USB port effectively, the router supports simultaneous operation of several USB devices. For example, you can access multimedia content of the connected HDD storage and at the same time share a USB printer.²

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, 802.11n, and 802.11ac (at the wireless connection rate up to 1167Mbps¹).

Secure Wireless Connection

The router supports multiple functions for the wireless interface: several security standards (WEP, WPA/WPA2/WPA3), 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.

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

² When using a USB hub with external power supply.



Advanced Capabilities of Wireless Network

The EasyMesh function is D-Link implementation of mesh networks designed to quickly connect several³ devices into one transport network, for example, when it's required to provide high-quality Wi-Fi coverage without dead zones in living units of complicated planning or it's needed to create a large temporary Wi-Fi network for an outdoor event.

Multi-user MIMO technology allows to distribute the router's resources to let multiple wireless clients use the Wi-Fi network efficiently, keeping high rates for HD media streaming, lag-free gaming, and fast transfer of large files.

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

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-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.

The SSH protocol support provides more secure remote configuration and management of the router due to encryption of all transmitted traffic, including passwords.

In addition, the router supports IPsec and allows to create secure VPN tunnels. Support of the IKEv2 protocol allows to provide simplified message exchange and use asymmetric authentication engine upon configuration of an IPsec tunnel.

Built-in Yandex.DNS service protects against malicious and fraudulent web sites and helps to block access to adult content on children's devices.

The router also supports the SkyDNS web content filtering service, which provides more settings and opportunities for safer Internet experience for home users of all ages and for professional activities of corporate users.

Now the schedules are also implemented; they can be applied to the rules and settings of the firewall and used to reboot the router at the specified time or every specified time period and to enable/disable the wireless network and the Wi-Fi filter.

The new ad blocking function effectively blocks advertisements which appear during web surfing.

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 two languages – in Russian and in English).

The configuration wizard allows you to quickly switch DIR-815 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-815 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.



DIR-815

| Hardware | |
|-----------------|---|
| Processor | · RTL8197FH-VG5 (1GHz) |
| RAM | 128MB, DDR2, built in processor |
| Flash | · 128MB, NAND SPI |
| Interfaces | 10/100BASE-TX WAN port 4 10/100BASE-TX LAN ports USB 2.0 port |
| LEDs | Power Internet 4 LAN LEDs WLAN 2.4G WLAN 5G WPS USB |
| Buttons | POWER button to power on/power off WIFI button to enable/disable wireless network WPS button to connect mesh network devices and set up wireless connection RESET button to restore factory default settings |
| Antenna | Four external non-detachable antennas (5dBi gain) |
| МІМО | · 2 x 2, MU-MIMO |
| Power connector | Power input connector (DC) |

| Software | |
|----------------------|--|
| WAN connection types | Mobile Internet (via supported USB modem) 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 | 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 IPv4/IPv6 routing IGMP/MLD Proxy RIP Support of UPnP IGD Support of VLAN WAN ping respond Support of SIP ALG Support of RTSP WAN failover Autonegotiation of speed, duplex mode, and flow control / Manual speed and duplex mode setup for each Ethernet port Built-in UDPXY application XUPNPD plug-in |



| Software | |
|---------------------------|--|
| Firewall functions | Network Address Translation (NAT) Stateful Packet Inspection (SPI) IPv4/IPv6 filter MAC filter URL filter URL filter Ad blocking function DMZ Virtual servers Built-in Yandex.DNS web content filtering service Built-in SkyDNS web content filtering service |
| VPN | IPsec/PPTP/L2TP/PPPoE pass-through PPTP/L2TP tunnels L2TP over IPsec IPsec tunnels Transport/Tunnel mode IKEv1/IKEv2 support DES encryption NAT Traversal Support of DPD (Keep-alive for VPN 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 |
| Management and monitoring | Local and remote access to settings through SSH/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/connected USB storage Automatic synchronization of system time with NTP server and manual time/date setup Ping utility Traceroute utility TR-069 client Schedules for rules and settings of firewall, automatic reboot, and enabling/disabling wireless network and Wi-Fi filter Automatic upload of configuration file from ISP's server (Auto Provision) |

| Wireless Module Parameters | |
|--|--|
| Standards | IEEE 802.11ac Wave 2 IEEE 802.11a/b/g/n IEEE 802.11k/v IEEE 802.11w |
| Frequency range The frequency range depends upon the radio frequency regulations applied in your country | 2400 ~ 2483.5MHz 5150 ~ 5350MHz 5650 ~ 5850MHz |



| Wireless Module Parameters | | |
|---|--|--|
| Wireless connection security | WEP WPA/WPA2 (Personal/Enterprise) WPA3 (Personal) MAC filter WPS (PBC/PIN) | |
| Advanced functions | EasyMesh function Support of client mode WMM (Wi-Fi QoS) Information on connected Wi-Fi clients Advanced settings Guest Wi-Fi / support of MBSSID Rate limitation for wireless network/separate MAC addresses Periodic scan of channels, automatic switch to least loaded channel Support of 5GHz TX Beamforming Autonegotiation of channel bandwidth in accordance with environment conditions (20/40 Coexistence) Support of STBC | |
| 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): from 6.5 to 300Mbps (MCS0–MCS15) IEEE 802.11n (5GHz): from 6.5 to 300Mbps (from MCS0 to MCS15) IEEE 802.11ac (5GHz): from 6.5 to 867Mbps (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 | 802.11a (typical at room temperature 25 °C) 14dBm at 6, 9, 12, 18, 24Mbps 13dBm at 36Mbps 12.5dBm at 48Mbps 12dBm at 54Mbps 802.11b (typical at room temperature 25 °C) 15dBm et 1, 2, 5 5, 14Mbps | |
| | 15dBm at 1, 2, 5.5, 11Mbps 802.11g (typical at room temperature 25 °C) 15dBm at 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n (typical at room temperature 25 °C) 2.4GHz, HT20 15dBm at MCS0~7 2.4GHz, HT40 15dBm at MCS0~7 5GHz, HT20 14dBm at MCS0~4 13dBm at MCS5 12.5dBm at MCS6 12dBm at MCS7 5GHz, HT40 14dBm at MCS0~2 13dBm at MCS3~4 12.5dBm at MCS5~6 12dBm at MCS7 | |
| | 802.11ac (typical at room temperature 25 °C) VHT20 14dBm at MCS0~4 13dBm at MCS5 12dBm at MCS6 11dBm at MCS7/8 VHT40 14dBm at MCS0~2 13dBm at MCS3~4 12dBm at MCS5~6 11dBm at MCS0~4 13dBm at MCS0~4 13dBm at MCS0~6 12dBm at MCS0~6 12dBm at MCS0~6 12dBm at MCS0~1 14dBm at MCS0~1 <l< td=""></l<> | |





| Wireless Module Parameters | |
|----------------------------|---|
| Receiver sensitivity | 802.11a (typical at PER = 10% (1000-byte PDUs) at room temperature 25 °C) -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 (typical at PER = 8% (1000-byte PDUs) at room temperature 25 °C) -80dBm at 1Mbps -80dBm at 2Mbps -76dBm at 5.5Mbps -76dBm at 11Mbps |
| | 802.11g (typical at PER < 10% (1000-byte PDUs) at room temperature 25 °C) -82dBm at 6Mbps -81dBm at 9Mbps -79dBm at 12Mbps -77dBm at 18Mbps -74dBm at 24Mbps -70dBm at 36Mbps -66dBm at 48Mbps -65dBm at 54Mbps |
| | -oddini at 34400ps 802.11n (typical at PER = 10% (1000-byte PDUs) at room temperature 25 °C) 2.4GHz, HT20 -82dBm at MCS0 -77dBm at MCS1 -77dBm at MCS3 -7ddBm at MCS5 -66dBm at MCS6 -64dBm at MCS7 2.4GHz, HT40 -79dBm at MCS0 -76dBm at MCS1 -74dBm at MCS2 -74dBm at MCS6 -64dBm at MCS1 -74dBm at MCS3 -67dBm at MCS5 -62dBm at MCS6 -61dBm at MCS7 5GHz, HT20 -82dBm at MCS0 -79dBm at MCS1 -77dBm at MCS3 -70dBm at MCS4 -66dBm at MCS5 -65dBm at MCS5 -65dBm at MCS6 -64dBm at MCS7 5GHz, HT40 -79dBm at MCS0 -79dBm at MCS1 -74dBm at MCS2 -74dBm at MCS1 -74dBm at MCS2 |



| Wireless Module Parameters | |
|----------------------------|---|
| | • 802.11ac (typical at PER = 10% (1000-byte PDUs) at room temperature 25 °C) VHT20 -82dBm at MCS0 -79dBm at MCS1 -77dBm at MCS3 -77dBm at MCS4 -66dBm at MCS5 -65dBm at MCS6 -64dBm at MCS7 -66dBm at MCS0 -76dBm at MCS8 VHT40 -79dBm at MCS1 -74dBm at MCS2 -74dBm at MCS6 -64dBm at MCS5 -65dBm at MCS8 VHT40 -79dBm at MCS3 -76dBm at MCS3 -76dBm at MCS3 -74dBm at MCS3 -67dBm at MCS3 -67dBm at MCS3 -67dBm at MCS3 -71dBm at MCS3 -67dBm at MCS4 -63dBm at MCS5 -62dBm at MCS6 -61dBm at MCS7 -56dBm at MCS8 -54dBm at MCS0 -76dBm at MCS0 -76dBm at MCS0 -76dBm at MCS0 -76dBm at MCS1 -71dBm at MCS2 -68dBm at MCS3 -64dBm at MCS3 -64dBm at MCS3 -64dBm at MCS3 -64dBm at MCS4 -60dBm at MCS3 -64dBm at MCS4 -60dBm at MCS4 -60dBm at MCS4 -60dBm at MCS4 -60dBm at M |
| 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 |

| Physical Parameters | |
|------------------------|--|
| Dimensions (L x W x H) | · 205 x 136 x 33 mm (8.07 x 5.35 x 1.3 in) |
| Weight | · 289 g (0.63 lb) |
| | |

| Operating Environment | |
|-----------------------|---|
| Power | Output: 12V DC, 1A |
| 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) |

| Deliv | Delivery Package | |
|-------|---------------------------------------|--|
| | Router DIR-815 | |
| | Power adapter DC 12V/1A | |
| | Ethernet cable | |
| | "Quick Installation Guide" (brochure) | |



⁵ The manufacturer does not guarantee proper operation of the router with every modification of the firmware of USB modems.



| Supported USB modems | |
|-----------------------------------|--|
| LTE | Alcatel IK40V D-Link DWM-222 Huawei E3131 Huawei E3372 Huawei E3351 Huawei E3372s Huawei E3372h-153 Huawei E367 Huawei E367 Huawei E392 Megafon M100-1 Megafon M100-2 Megafon M100-2 Megafon M100-3 Megafon M100-4 Megafon M150-1 Megafon M150-1 Megafon M150-3 Quanta 1K6E (Beeline 1K6E) MTS 824F MTS 827F Yota LU-150 Yota WLTUBA-107 ZTE MF823 ZTE MF823 ZTE MF833T ZTE MF833T |
| Smartphones in USB tethering mode | Some models of Android smartphones |

