# D-Link®
**Building Networks for People**

## Product Highlights

### HIGH SPEED
**Gigabit SFP port,
Fast Ethernet ports,
total wireless connection rate
up to 300Mbps**

### SECURITY
**Multiple firewall functions,
several security standards for
wireless connection**

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

## DIR-615

# Gigabit Wireless N300 Router with Fiber WAN Port and FE LAN Ports

**Wireless Interface**

Using the DIR-615 device, you are able to quickly create a 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). The router can operate as a base station for connecting wireless devices of the standards 802.11b, 802.11g, and 802.11n (at the rate up to 300Mbps).

**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**

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.

**Security**

The wireless router DIR-615 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-615 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-615 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-615 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.

| Hardware | |
|---|---|
| **Processor** | · RTL8197DN (660MHz) |
| **RAM** | · 64MB, DDR2 |
| **Flash** | · 8MB, SPI |
| **Interfaces** | · 1000BASE-X SFP WAN port<br>· 4 10/100BASE-TX LAN ports |
| **LEDs** | · POWER<br>· INTERNET<br>· WLAN<br>· WPS<br>· 4 LAN LEDs |
| **Buttons** | · ON/OFF button to power on/power off<br>· RESET button to restore factory default settings<br>· WPS button to set up wireless connection and enable/disable wireless network |
| **Antenna** | · Two external non-detachable antennas (5dBi gain) |
| **MIMO** | · 2 x 2 |
| **Power connector** | · Power input connector (DC) |

| Software | |
|---|---|
| **WAN connection types** | · PPPoE<br>· IPv6 PPPoE<br>· PPPoE Dual Stack<br>· Static IPv4 / Dynamic IPv4<br>· Static IPv6 / Dynamic IPv6<br>· PPPoE + Static IP (PPPoE Dual Access)<br>· PPPoE + Dynamic IP (PPPoE Dual Access)<br>· PPTP/L2TP + Static IP<br>· PPTP/L2TP + Dynamic IP |
| **Network functions** | · Support of IEEE 802.1X for Internet connection<br>· DHCP server/relay<br>· Stateful/Stateless mode for IPv6 address assignment, IPv6 prefix delegation<br>· Automatic obtainment of LAN IP address (for access point/repeater/client modes)<br>· DNS relay<br>· Dynamic DNS<br>· Static IP routing<br>· Static IPv6 routing<br>· IGMP Proxy<br>· RIP<br>· Support of UPnP IGD<br>· Support of VLAN<br>· WAN ping respond<br>· Support of SIP ALG<br>· Support of RTSP<br>· WAN reservation<br>· Autonegotiation of speed, duplex mode, and flow control/Manual speed and duplex mode setup for each Ethernet port<br>· Setup of maximum TX rate for each port of the router<br>· Built-in UDPXY application |
| **Firewall functions** | · Network Address Translation (NAT)<br>· Stateful Packet Inspection (SPI)<br>· IP filter<br>· IPv6 filter<br>· MAC filter<br>· URL filter<br>· DMZ<br>· Prevention of ARP and DDoS attacks<br>· Virtual servers<br>· Built-in Yandex.DNS web content filtering service |
| **VPN** | · IPsec/PPTP/L2TP/PPPoE pass-through<br>· IPsec tunnels |

| Software | |
|---|---|
| Management | · Local and remote access to settings through TELNET/WEB (HTTP/HTTPS)<br>· Bilingual web-based interface for configuration and management (Russian/English)<br>· Support of Click'n'Connect application for Android smartphones<br>· Notification on connection problems and auto redirect to settings<br>· Firmware update via web-based interface<br>· Automatic notification on new firmware version<br>· Saving/restoring configuration to/from file<br>· Support of remote logging<br>· Automatic synchronization of system time with NTP server and manual time/date setup<br>· Ping utility<br>· Traceroute utility<br>· TR-069 client |

| Wireless Module Parameters | |
|---|---|
| Standards | · IEEE 802.11b/g/n |
| Frequency range | · 2400 ~ 2483.5MHz |
| Wireless connection security | · WEP<br>· WPA/WPA2 (Personal/Enterprise)<br>· MAC filter<br>· WPS (PBC/PIN) |
| Advanced functions | · Support of client mode<br>· WMM (Wi-Fi QoS)<br>· Information on connected Wi-Fi clients<br>· Advanced settings<br>· Smart adjustment of Wi-Fi clients<br>· Guest Wi-Fi / support of MBSSID<br>· Rate limitation for wireless network/separate MAC addresses<br>· Autonegotiation of channel bandwidth in accordance with environment conditions (20/40 Coexistence) |
| Wireless connection rate | · IEEE 802.11b: 1, 2, 5.5, and 11Mbps<br>· IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, and 54Mbps<br>· IEEE 802.11n: from 6.5 to 300Mbps (from MCS0 to MCS15) |
| **Transmitter output power**<br><br>*The maximum value of the transmitter output power depends upon the radio frequency regulations applied in your country* | · 802.11b (typical at room temperature 25 °C)<br>15dBm at 1, 2, 5.5, 11Mbps<br><br>· 802.11g (typical at room temperature 25 °C)<br>15dBm at 6, 9, 12, 18, 24, 36, 48, 54Mbps<br><br>· 802.11n (typical at room temperature 25 °C)<br>HT20/HT40<br>15dBm at MCS0/1/2/3/4/5/6/8/9/10/11/12/13/14<br>14dBm at MCS7/15 |

## Wireless Module Parameters

| | |
|---|---|
| **Receiver sensitivity** | ·    802.11b (typical at PER = 8% at room temperature 25 °C)<br>-84dBm at 1, 2Mbps<br>-82dBm at 5.5Mbps<br>-79dBm at 11Mbps<br><br>·    802.11g (typical at PER = 10% at room temperature 25 °C)<br>-82dBm at 6Mbps<br>-81dBm at 9Mbps<br>-79dBm at 12Mbps<br>-77dBm at 18Mbps<br>-74dBm at 24Mbps<br>-70dBm at 36Mbps<br>-66dBm at 48Mbps<br>-65dBm at 54Mbps<br><br>·    802.11n (typical at PER = 10% at room temperature 25 °C)<br>HT20<br>-82dBm at MCS0/8<br>-79dBm at MCS1/9<br>-77dBm at MCS2/10<br>-74dBm at MCS3/11<br>-70dBm at MCS4/12<br>-66dBm at MCS5/13<br>-65dBm at MCS6/14<br>-64dBm at MCS7/15<br>HT40<br>-79dBm at MCS0/8<br>-76dBm at MCS1/9<br>-74dBm at MCS2/10<br>-71dBm at MCS3/11<br>-67dBm at MCS4/12<br>-63dBm at MCS5/13<br>-62dBm at MCS6/14<br>-61dBm at MCS7/15 |
| **Modulation schemes** | ·    802.11b: DQPSK, DBPSK, DSSS, CCK<br>·    802.11g: BPSK, QPSK, 16QAM, 64QAM with OFDM<br>·    802.11n: BPSK, QPSK, 16QAM, 64QAM with OFDM |

## Physical Parameters

| | |
|---|---|
| **Dimensions (L x W x H)** | ·    172 x 132 x 36 mm (6.76 x 5.19 x 1.42 in) |
| **Weight** | ·    286 g (0.63 lb) |

## Operating Environment

| | |
|---|---|
| **Power** | ·    Output: 12V DC, 1A |
| **Temperature** | ·    Operating: from 0 to 40 °C<br>·    Storage: from -20 to 65 °C |
| **Humidity** | ·    Operating: from 10% to 90% (non-condensing)<br>·    Storage: from 5% to 95% (non-condensing) |

## Delivery Package

·    Router DIR-615
·    Power adapter DC 12V/1A
·    Ethernet cable (CAT 5E)
·    "Quick Installation Guide" (brochure)