



## Wireless N300 Router

### 802.11N

High connection rate  
(up to 300Mbps)  
and superior wireless range

### USB PORT

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

### SECURITY

Multiple firewall functions,  
several security standards  
for wireless connection

### Wireless Interface

Using the DIR-620 device, you are able to quickly create a wireless network at home or in your office, which lets your relatives or employees connect to your wireless network virtually anywhere (within the operational range of your wireless network). The router can operate as an access point for connecting wireless devices of the standards 802.11b, 802.11g, and 802.11n (at the rate up to 300Mbps).

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

### 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.

### 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 multifunction wireless router DIR-620 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.

### Easy configuration and update

You can configure the settings of the multifunction wireless router DIR-620 via the user-friendly web-based interface (the interface is available in several languages).

Now 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

#### WAN Interface

- 1 10/100BASE-TX Ethernet port for cable or DSL modem or private Ethernet line

#### LAN Interface

- 4 10/100BASE-TX Ethernet ports

#### WLAN Interface

- IEEE 802.11n (up to 300Mbps)
- IEEE 802.11b/g

#### USB Interface

- USB 2.0 type A port for USB modem, storage, or printer

#### Frequency Range

- 802.11b
  - 2400 ~ 2483.5MHz ISM band
- 802.11g
  - 2400 ~ 2483.5MHz ISM band
- 802.11n
  - 2400 ~ 2483.5MHz ISM band
  - HT20: 2412 ~ 2472MHz
  - HT40: 2422 ~ 2462MHz

#### Data Rate

- 802.11b
  - 11, 5.5, 2, and 1Mbps
- 802.11g
  - 54, 48, 36, 24, 18, 12, 9, and 6Mbps
- 802.11n
  - 6.5~300Mbps (MCS0 ~ MCS15)

#### Modulation Schemes

- 802.11b: DQPSK, DBPSK, DSSS, CCK
- 802.11g: BPSK, QPSK, 16QAM, 64QAM with OFDM
- 802.11n: BPSK, QPSK, 16QAM, 64QAM with OFDM

#### Receiver Sensitivity

- 802.11b (typical at PER = 8% (1000-byte PDUs) at room temperature 25 °C)
  - -84dBm at 1Mbps
  - -84dBm at 2Mbps
  - -82dBm at 5.5Mbps
  - -79dBm 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
- 802.11n (typical at PER = 10% (1000-byte PDUs))
  - 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

#### Transmitter Output Power

- 802.11b (typical at room temperature 25 °C)
  - 17dBm (+/-1dB) at 1Mbps
  - 17dBm (+/-1dB) at 2Mbps
  - 17dBm (+/-1dB) at 5.5Mbps
  - 17dBm (+/-1dB) at 11Mbps
- 802.11g (typical at room temperature 25 °C)
  - 16dBm (+/-1dB) at 6Mbps
  - 16dBm (+/-1dB) at 9Mbps
  - 15dBm (+/-1dB) at 12Mbps
  - 15dBm (+/-1dB) at 18Mbps
  - 15dBm (+/-1dB) at 24Mbps
  - 15dBm (+/-1dB) at 36Mbps
  - 14dBm (+/-1dB) at 48Mbps
  - 14dBm (+/-1dB) at 54Mbps

# DIR-620

## Specifications

- 802.11n (typical at room temperature 25 °C)
  - HT20
  - 14dBm (+/-1dB) MCS0
  - 14dBm (+/-1dB) MCS1
  - 14dBm (+/-1dB) MCS2
  - 14dBm (+/-1dB) MCS3
  - 14dBm (+/-1dB) MCS4
  - 14dBm (+/-1dB) MCS5
  - 14dBm (+/-1dB) MCS6
  - 14dBm (+/-1dB) MCS7
  - HT40
  - 13dBm (+/-1dB) MCS0
  - 13dBm (+/-1dB) MCS1
  - 13dBm (+/-1dB) MCS2
  - 13dBm (+/-1dB) MCS3
  - 13dBm (+/-1dB) MCS4
  - 13dBm (+/-1dB) MCS5
  - 13dBm (+/-1dB) MCS6
  - 13dBm (+/-1dB) MCS7

### Software

#### Network Functions

- WAN connection types
  - LTE
  - 3G
  - PPPoE
  - Static IP
  - Dynamic IP
  - PPTP/L2TP
  - PPTP/L2TP + Static IP
  - PPTP/L2TP + Dynamic IP
- DHCP server/client/relay
- DNS relay
- VPN pass-through (PPTP/L2TP)
- Dynamic DNS
- Static IP routing
- Remote management
- Network statistics for each interface
- IGMP Proxy
- RIP
- UPnP
- Support of VLAN
- TR-069 client
- WAN ping respond
- Support of SIP
- Support of RTSP

## Wireless N300 Router

#### Wireless Connection

- Supported security settings
  - WEP
  - WPA/WPA2 Personal
  - WPA/WPA2 Enterprise
- MAC filter
- PIN and PBC methods of WPS
- WMM (Wi-Fi QoS)
- Advanced settings

#### USB Modem\*

- Auto connection to available type of supported network (3G/2G)
- Enabling/disabling PIN code check, changing PIN code

#### USB Storage

- File browser
- Print server
- Built-in Samba server
- Built-in FTP server
- Built-in DLNA server
- Access to storage via accounts

#### Torrent Client

- Built-in Transmission client
- Uploading/downloading files from/to USB storage

#### Firewall Functions

- Network Address Translation (NAT)
- Stateful Packet Inspection (SPI)
- IP filters
- MAC filter
- DMZ
- Prevention of ARP and DDoS attacks
- Virtual servers

#### Configuration and Management

- Multilingual web-based interface for configuration and management
- Access via TELNET
- Firmware update via web-based interface
- Automatic notification on new firmware version
- Saving/restoring configuration to/from file
- Support of remote logging
- Automatic synchronization of system time with NTP server and manual time/date setup
- Ping function
- Traceroute utility

\* The listed functions are available for GSM USB modems only.

# DIR-620

## Specifications

### Wireless N300 Router

#### Supported USB Modems\*\*

- GSM modems
  - Alcatel X500
  - D-Link DWM-152C1
  - D-Link DWM-156C1
  - Huawei E150
  - Huawei E1550
  - Huawei E160G
  - Huawei E169G
  - Huawei E171
  - Huawei E173 (Megafon)
  - Huawei E220
  - Huawei E352 (Megafon)
  - Huawei E392 (3G mode)
  - ZTE MF112
  - ZTE MF192
  - ZTE MF626
  - ZTE MF627
  - ZTE MF652
  - ZTE MF668
  - ZTE MF752
- CDMA modems
  - Airplus MCD-650
  - Airplus MCD-800
  - AnyDATA ADU-300A
  - AnyDATA ADU-500A
  - AnyDATA ADU-510A
  - Huawei EC306
  - ZTE AC5710
  - ZTE AC5730
- LTE modems
  - Yota LU150
  - Yota WLTUBA-107
- WiMAX modem
  - Samsung SWC-U200 (firmware version *u200\_rev1-2.7.40-C114*)

#### Physical and Environmental

##### LEDs

- POWER
- WPS
- INTERNET
- WLAN
- 4 LAN LEDs
- USB

##### Power

- External power adapter DC 12V/1A
- Power on/off button
- Reset to Factory Defaults button
- WPS button

##### Operating Temperature

- From 0 to 40 °C (from 32 to 104 °F)

##### Storage Temperature

- From -20 to 65 °C (from -4 to 149 °F)

##### Operating Humidity

- From 10% to 90% non-condensing

##### Storage Humidity

- From 5% to 95% non-condensing

#### Ordering Information

**DIR-620**

Wireless N300 Router

**D-Link**<sup>®</sup>

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

Web:

<http://www.dlink.com/corporate/worldwideoffices/>