



## Multifunction Wireless Router Supporting WiMAX, 3G GSM/CDMA with Built-in Switch

### 802.11N

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

### USB PORT

Support of USB modem for  
Internet connection via 3G  
or WiMAX 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 a base station 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.

#### Configuration and Management

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

#### 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.

#### 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 802.11b/g/n.

##### USB Interface:

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

##### Frequency Range:

- 802.11b:
  - 2400 ~ 2497MHz ISM band
- 802.11g:
  - 2400 ~ 2483.5MHz ISM band
- 802.11n:
  - 2400 ~ 2483.5MHz ISM band
  - Channel frequency for HT20: 2412 ~ 2472MHz
  - Channel frequency for HT40: 2422 ~ 2462MHz.

##### Wireless Connection 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).

##### Transmitter Output Power:

- 802.11b:
  - Typical 17dBm (+/-2dB) at 11b mode at room temperature 25 °C
- 802.11g:
  - Typical 15dBm (+/-2dB) at 11g mode at room temperature 25 °C
- 802.11n:
  - Typical 15dBm (+/-2dB) at 11n HT20 at room temperature 25 °C
  - Typical 14dBm (+/-2dB) at 11n HT40 at room temperature 25 °C.

##### Receiver Sensitivity:

- 802.11b (typical at PER = 8% (1000-byte PDUs)):
  - -76dBm for 11Mbps
  - -76dBm for 5.5Mbps
  - -76dBm for 2Mbps
  - -76dBm for 1Mbps
- 802.11g (typical at PER = 10% (1000-byte PDUs)):
  - -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 MCS0/8
    - -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.

# DIR-620

## Specifications

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#### Software

##### Network Functions:

- WAN connection types:
  - 3G
  - PPPoE
  - Static IP
  - Dynamic IP
  - PPTP/L2TP
  - PPTP/L2TP + Static IP
  - PPTP/L2TP + Dynamic IP
- DHCP server and client
- 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
- WAN ping respond.

##### USB Modem\*:

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

##### USB Storage:

- Built-in FTP server
- Print server
- Access to storage via accounts
- Access control (for ext2/3 file systems).

##### 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.

##### Torrent Client:

- Uploading/downloading files from/to USB storage.

##### Firewall Functions:

- Network Address Translation (NAT)
- Stateful Packet Inspection (SPI)
- IP filters
- URL filter
- 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
- Saving/restoring configuration to/from file
- Support of remote logging
- Automatic synchronization of system time with NTP server
- Ping function
- Traceroute utility.

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

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### Supported USB Modems\*\*:

- GSM modems:
  - Huawei E1550
  - Huawei E160G
  - Huawei E169G
  - Huawei E171
  - Huawei E220
  - 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-310A
  - Axesstel MV110
  - Ubiquam UM-400
  - WeTelecom WM-D200.
- WiMAX modem:
  - Samsung SWC-U200 (firmware version *u200\_rev1-2.7.40-C114*).

### Physical and Environmental

#### LEDs:

- Power
- Internet
- WLAN
- 4 LAN LEDs
- WPS.

#### Power:

- External power adapter DC 12V/1A
- ON/OFF power switch
- Reset to Factory Defaults 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

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Web:

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

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