D-Link®

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

802.11N	**USB PORT**	**SECURITY**
High connection rate (up to 300Mbps) and superior wireless range	**Support of USB modem for Internet connection via 3G or WiMAX network, USB storage, and printer**	**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.

DIR-620
Specifications

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

- 2400 ~ 2484MHz ISM band

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)

EIRP (Effective Isotropic Radiated Power)

- 802.11b
  - 18.8dBm (typical)
- 802.11g
  - 18.8dBm (typical)
- 802.11n
  - 17.8dBm (typical)

Receiver Sensitivity

- 802.11b (typical at PER = 8% (1000-byte PDUs) at room temperature)
  - -82dBm at 11Mbps
  - -83dBm at 5.5Mbps
  - -84dBm at 2Mbps
  - -85dBm at 1Mbps

- 802.11g (typical at PER = 10% (1000-byte PDUs) at room temperature)
  - -70dBm at 54Mbps
  - -72dBm at 48Mbps
  - -75dBm at 36Mbps
  - -77dBm at 24Mbps
  - -81dBm at 18Mbps
  - -82dBm at 12Mbps
  - -84dBm at 9Mbps
  - -85dBm at 6Mbps

- 802.11n (typical at PER = 10% (1000-byte PDUs) at room temperature 25 ^{0}C)
  - HT20
  - –81dBm at BPSK, coding rate 1/2 (MCS-0)
  - –80dBm at QPSK, coding rate 1/2 (MCS-1)
  - –79dBm at QPSK, coding rate 3/4 (MCS-2)
  - –76dBm at 16-QAM, coding rate 1/2 (MCS-3)
  - –74dBm at 16-QAM, coding rate 3/4 (MCS-4)
  - –72dBm at 64-QAM, coding rate 2/3 (MCS-5)
  - –70dBm at 64-QAM, coding rate 3/4 (MCS-6)
  - –68dBm at 64-QAM, coding rate 5/6 (MCS-7)
  - HT40
  - –81dBm at BPSK, coding rate 1/2 (MCS-0)
  - –80dBm at QPSK, coding rate 1/2 (MCS-1)
  - –79dBm at QPSK, coding rate 3/4 (MCS-2)
  - –76dBm at 16-QAM, coding rate 1/2 (MCS-3)
  - –74dBm at 16-QAM, coding rate 3/4 (MCS-4)
  - –70dBm at 64-QAM, coding rate 2/3 (MCS-5)
  - –68dBm at 64-QAM, coding rate 3/4 (MCS-6)
  - –66dBm at 64-QAM, coding rate 5/6 (MCS-7)

DIR-620
Specifications

Transmitter Output Power

- 802.11b (typical at room temperature)
  - 17dBm at 11, 5.5, 2, and 1Mbps
- 802.11g (typical at room temperature)
  - 14dBm at 54 and 48Mbps
  - 15dBm at 36 and 24Mbps
  - 16dBm at 18 and 12Mbps
  - 17dBm at 9 and 6Mbps
- 802.11n (typical at room temperature 25 ^{0}C)
  - HT-20
  - 16dBm at MCS 0, 1
  - 15dBm at MCS 2, 3
  - 14dBm at MCS 4, 5
  - 13dBm at MCS 6, 7
  - HT-40
  - 16dBm at MCS 0, 1
  - 15dBm at MCS 2, 3
  - 14dBm at MCS 4, 5
  - 13dBm at MCS 6, 7

Software

Network Functions

- WAN connection types
  - 3G
  - PPPoE
  - Static IP
  - Dynamic IP
  - PPTP/L2TP
  - PPTP/L2TP + Static IP
  - PPTP/L2TP + Dynamic IP
- Support of IEEE 802.1X for Internet connection
- 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
- Managing connected stations
- PIN and PBC methods of WPS
- WMM (Wi-Fi QoS)
- Advanced settings
- Support of client mode

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

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

DIR-620
Specifications

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

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
  - WeTelecom WM-D200
- WiMAX modem
  - Samsung SWC-U200 (firmware version *u200_rev1-2.7.40-CI14*)

Physical and Environmental

LEDs

- Power
- Internet
- WLAN
- 4 LAN LEDs

Power

- External power adapter DC 5V/2.5A
- Reset to Factory Defaults button

Operating Temperature

- from 0 to 40 ^{0}C (from 32 to 104 ^{0}F)

Storage Temperature

- from -20 to 65 ^{0}C (from -4 to 149 ^{0}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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[**] The manufacturer does not guarantee proper operation of the router with every modification of the firmware of USB modems.