D-Link®

Wireless N 150 Home Router

802.11N	SECURITY	OPERABILITY
Faster rate (up to 150Mbps) and superior wireless range	**Multiple firewall functions, several security standards for wireless connection**	**Easy configuration and management through web-based interface**

Wireless Interface

Using the DIR-300 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 150Mbps).

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

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-300 includes a built-in firewall. The advanced security functions minimize threats of hacker attacks and prevent unwanted intrusions to your network.

Configuration and Management

You can configure and manage the settings of the wireless router DIR-300 via the user-friendly web-based interface (the interface is available in several languages).

DIR-300
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 150Mbps)
- IEEE 802.11b/g

Frequency Range
- 802.11b
  - 2400 ~ 2497MHz 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
  - TX/RX: MCS0 ~ MCS7

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)
  - -82dBm at 1Mbps
  - -80dBm at 2Mbps
  - -78dBm at 5.5Mbps
  - -76dBm at 11Mbps
- 802.11g (typical at PER = 10% (1000-byte PDUs) at room temperature 25 °C)
  - -85dBm at 6Mbps
  - -84dBm at 9Mbps
  - -82dBm at 12Mbps
  - -80dBm at 18Mbps
  - -77dBm at 24Mbps
  - -73dBm at 36Mbps
  - -69dBm at 48Mbps
  - -68dBm 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 (+/-1.5dB) at 1Mbps
  - 17dBm (+/-1.5dB) at 2Mbps
  - 17dBm (+/-1.5dB) at 5.5Mbps
  - 17dBm (+/-1.5dB) at 11Mbps
- 802.11g (typical at room temperature 25 °C)
  - 17dBm (+/-1.5dB) at 6Mbps
  - 17dBm (+/-1.5dB) at 9Mbps
  - 17dBm (+/-1.5dB) at 12Mbps
  - 16dBm (+/-1.5dB) at 18Mbps
  - 16dBm (+/-1.5dB) at 24Mbps
  - 15dBm (+/-1.5dB) at 36Mbps
  - 15dBm (+/-1.5dB) at 48Mbps
  - 15dBm (+/-1.5dB) at 54Mbps
- 802.11n (typical at room temperature 25 °C)
  - HT20
  - 16.5dBm (+/-1.5dB) MCS0
  - 16.5dBm (+/-1.5dB) MCS1
  - 16.5dBm (+/-1.5dB) MCS2
  - 16dBm (+/-1.5dB) MCS3
  - 16dBm (+/-1.5dB) MCS4
  - 15.5dBm (+/-1.5dB) MCS5
  - 15dBm (+/-1.5dB) MCS6
  - 14dBm (+/-1.5dB) MCS7
  - HT40
  - 16.5dBm (+/-1.5dB) MCS0
  - 16.5dBm (+/-1.5dB) MCS1
  - 16.5dBm (+/-1.5dB) MCS2
  - 16dBm (+/-1.5dB) MCS3
  - 16dBm (+/-1.5dB) MCS4
  - 15.5dBm (+/-1.5dB) MCS5
  - 15dBm (+/-1.5dB) MCS6
  - 14dBm (+/-1.5dB) MCS7

Software

Network Functions
- WAN connection types:
  - PPPoE
  - Static IP
  - Dynamic IP
  - 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
- Flow control
- WAN ping respond

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

Firewall Functions
- Network Address Translation (NAT)
- Stateful Packet Inspection (SPI)
- IP filters
- MAC filter
- URL 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 and manual time/date setup
- Ping function
- Traceroute utility

Physical and Environmental

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

Power
- External power adapter DC 12V/0.5A
- Power on/off button
- Reset to Factory Defaults button
- WPS 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-300

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