

Wireless 108G MIMO ADSL2/2+ Router

With Accelerated Rate/Extended Range Wireless LAN

- Integrated High-Speed ADSL2/2+ Interface
- High-Performance 108Mbps Wireless Speed
- Up to 8 Times Better Wireless Range Coverage
- Built-in 4-Port Switch for 4 Ethernet Connections
- DoS & SPI Firewall Protection

FEATURES

Wireless ADSL2/2+ Router

- Integrated ADSL1/2+ Interface
- Built-in 802.11g WLAN Upto 108Mbps Turbo Speed *
- Integrated 4-Port Ethernet Switch

High-Speed ADSL Access

- ADSL: G.992.1 G.dmt, G.992.2 G.lite, ANSI T1.413 Issue 2 (FullRate DMT Over Analog POTS) Annex A
- ADSL2: G.992.3 (G.dmt.bis) Annex A
- ADSL2+ : G.992.5 Annex A
- G.994.1 G.hs Auto-Negotiation of Different ADSL Flavors

Extensive Operation Range

- Smart Antenna Technology
- Up to 8x Better Wireless Range Coverage *
- 2 Internal Antennas, 2 External Antennas

Firewall/Access Security

- DoS Attack Prevention
- Stateful Packet Inspection (SPI)
- IP/MAC-Based Packet Filtering
- Port-Based VLAN

Easy Setup/Flexible Management

- Universal Plug and Play (UPnP) Compliant
- Quick Installation Wizard
- Web-Based GUI for Local/Remote Management
- SNMP Management

* Up to 108Mbps when operating with other D-Link wireless 108G MIMO and 108G products, up to 8x signal range when operating with other Wireless 108G MIMO products. Actual data throughput will vary. Network Conditions and environmental factors lower actual data Throughput rate.



The DSL-G624M wireless 108G MIMO ADSL router is a high-speed, high-connectivity ADSL router. This router provides an integrated ADSL2/2+ modem supporting up to 24Mbps download speed, as well as high-performance wireless LAN with up to 108Mbps data rates and an extended signal coverage that is 8 times better than the normal wireless LAN devices. Together with firewall protection and built-in 4-port switch, this router provides the performance, security and convenience for a home or office running high-bandwidth applications like audio/video streaming, on-line gaming and large file transfer over a wireless network.

High-Speed ADSL Connection. The DSL-G624M features the latest ADSL2/ADSL2+ standards, providing speeds of up to 24Mbps downstream and 1Mbps upstream (ADSL2+), or 12Mbps downstream and 1Mbps upstream (ADSL2). This router auto-senses the connection type and auto-negotiates the best modulation scheme, using the G.hs (handshake) protocol.

Extended Wireless Operation Range. Radio signals typically reflect off objects, creating multiple paths that in conventional radios cause interference and fading. With multiple high Gain antennas, the DSL-G624M uses these paths to carry more information, which is recombined on the receiving side by the MIMO algorithms. As a result, this router reduces "dead" spots and distributes strong wireless signals across farther distances with enough bandwidth to stream multimedia content and transfer large files at far higher rates.

Up to 108Mbps Wireless Speed. The DSL-G624M doubles the spectral efficiency compared with the current wireless network. The maximum non-Turbo data transfer rate for 802.11g networks is 54Mbps, though actual throughput is typically closer to 20Mbps to 30Mbps. Enhanced by the Turbo mode, this router can boost the typical raw wireless speeds to 108Mbps, or a real throughput 15 times faster than that of 802.11b equipment.

Firewall Protection. The DSL-G624M provides firewall security using Stateful Packet Inspection (SPI) and hacker attack logging for Denial of Service (DoS) attack protection. SPI inspects the contents of all incoming packet headers before deciding what packets are allowed to pass through. Access control is provided with packet filtering based on port and source/destination MAC/IP addresses. With Virtual Server Mapping, the router can be set to allow separate FTP, Web, and multiple games to share the same Internet-visible IP address while still protecting your servers and workstations from hackers. You can configure any of the built-in LAN ports of the router to function as a DMZ port. VPN pass-through is provided to let mobile users access files and mail from offices to work at home without having to use complex VPN client software.



Technical Specifications

Hardware

Device Interfaces

- 1 RJ-11 ADSL port
- 4 RJ-45 10/100BASE-TX Fast Ethernet LAN ports with auto MDI/MDIX
- Built-in WLAN
- Factory reset button

ADSL

Standards

- ADSL standards: ANSI T1.413 Issue 2, ITU G.992.1 (G.dmt) Annex A, ITU G.992.2 (G.lite) Annex A
- ADSL2 standards: ITU G.992.3 (G.dmt.bis) Annex A, ITU G.992.4 (G.lite.bis) Annex A
- ADSL2+ standards: ITU G.992.5 Annex A
- Auto-handshake: ITU G.994.1 (G.hs)

Data Rates

- G.dmt: 8Mbps downstream, 832Kbps upstream
- G.lite: 1.5Mbps downstream, 512Kbps upstream
- ADSL2: 12Mbps downstream, 1Mbps upstream
- ADSL2+: 24Mbps downstream, 1Mbps upstream

ATM & PPP Protocols

- ATM Adaptation Layer Type 5 (AAL5)
- Bridged or routed Ethernet encapsulation
- VC and LLC based multiplexing
- PPP over Ethernet (PPPoE)
- PPP over ATM (RFC 2364)
- Classical IP over ATM (RFC 1577)
- OAM F4/F5

Router

Network Protocols & Features

- NAT, Static Routing, RIP v.1, v.2
- Universal Plug and Play (UPnP) Compliant
- Virtual Server & DMZ
- SNTP, IGMP proxy

Firewall/Access Security

- Built-in NAT firewall
- Stateful Packet Inspection (SPI)
- DoS attacks prevention (IP Spoofing, Land Attack, Smurf Attack, Ping of Death, TCP SYN flooding)
- Packet filtering based on port, source IP address, destination IP address, MAC address (ICMP/TCP/UDP)

VPN Pass Through/Multi-Sessions

- PPTP
- IPSec

Wireless LAN

Wireless Frequency Range

- 2.4GHz to 2.4835GHz

Wireless Data Transfer Rates

- (With Automatic Fallback)
- D-Link 108G 108Mbps, 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 11Mbps, 9Mbps, 6Mbps, 5.5Mbps, 2Mbps, 1Mbps

Wireless Security

- 64/128-bit WEP data encryption
- WPA-PSK (Pre-Shared Key)

Modulation Technology

- Orthogonal Frequency Division Multiplexing (OFDM)
- Complementary Code Keying (CCK)

Wireless Transmit Power

- 15dBm +/- 2dB

Antennas

- Dual 2dBi internal omni-directional antennas
- Dual 2dBi non-detachable dipole external Antennas

Wireless Operating Range *

- Indoors: Up to 100 m (328 ft)
- Outdoors: Up to 400 m (1312 ft)

* Environmental factors may adversely affect wireless signal range.

Management

Configuration/Management

- Quick Installation Wizard
- Web-based GUI for remote/local management
- Firmware upgrade, configuration data upload/download via Web-based GUI
- Telnet server for remote/local management
- Syslog monitoring
- SNMP v.1, v.2c support with built-in MIB-II (RFC 1213)
- DHCP server/client/relay

Security/Bandwidth Management

- IGMP Snooping
- PVC/VLAN port mapping (4 VLANs)

Physical & Environmental

Power Input

Through 12VAC 1.2A external power adapter

Dimensions

193 x 118 x 31 mm

Weight

270 grams

Operating Temperature

0° to 40°C

Storage Temperature

-20° to 70°C

Operating Humidity

5% to 95% non-condensing

Emission (EMC/EMI)

- CE (EN55022/EN55024/EN300 328/EN301 489)

Safety

- LVD

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