# D-Link®
## Building Networks for People

DI-784

**Up to 15x Faster**

- **Up to 108Mbps1 with D-Link 108AG Technology**
- **Compatible with 802.11a, 802.11g and 802.11b Devices**
- **Integrated Cable Diagnostic Utility**
- **Security with WPA**
- **Advanced Firewall**

**AG** 802.11a/802.11g 108Mbps

# *Air*Premier® AG
## 11a/11g Dualband Wireless
# 108Mbps[1] Router

**WPA SECURITY**

**D-Link 108 AG**

**FREE 24/7 TECH SUPPORT** (USA ONLY)†

D-Link, the industry pioneer in wireless networking, introduces another breakthrough in wireless connectivity — the *D-Link Air*Premier™ AG DI-784 11a/11g Dualband Wireless Router. This four-port, tri-mode, dualband router provides users with expanded user bandwidth. Wireless clients can connect to this router to achieve maximum wireless signal rates of up to 108Mbps[1].

The DI-784 works simultaneously on both 5GHz and 2.4GHz frequencies, providing unmatched deployment versatility. Since the DI-784 uses both 802.11g and 802.11a, you can share your Internet connection with the widest range of users. The DI-784 is also backwards compatible with 802.11b, so you can easily add it to your existing home, office, school or public hotspot network.

With the addition of D-Link 108AG technology, the DI-784 can achieve maximum wireless signal rates of up to 108Mbps[1] in a pure 802.11g or 802.11a environment which is up to 15x faster than the 802.11b standard. The use of new wireless technology such as Packet Bursting,

FastFrame, Compression & Encryption, and Turbo mode provide enough bandwidth to handle video/audio streaming and Video on Demand (VoD applications).

Network administrators can allocate bandwidth based on the different frequency bands. Depending on the number of users on the 5GHz 802.11a or 2.4GHz 802.11g network, an administrator can allocate more or less bandwidth between networking standards. This type of user segmentation optimizes the router's performance and improves network efficiency.

Filters on the router can also be set to restrict access based on the specific MAC addresses of wireless laptop or desktop clients, or restrict the access of IP addresses, specific websites, and/or Web domain names. All of the router's settings are accessible via any Web browser. The Web-based software user interface also features a step-by-step Setup Wizard to get the DI-784 up and running in just a matter of minutes.

# Air Premier® AG
## 11a/11g Dualband Wireless
## 108Mbps[1] Router

DI-784

## SPECIFICATIONS

**Standards**
- IEEE 802.11g
- IEEE 802.11b
- IEEE 802.11a
- IEEE 802.3
- IEEE 802.3u

**VPN Pass-Through / Multi-Sessions**
- PPTP
- L2TP
- IPSec

**Advanced Firewall Features**
(see table to right)

**Device Management**
- Web-based – Internet Explorer v.6 or later; Netscape Navigator v.6 or later; or other JavaScript enabled browsers.
- DHCP Server and Client

**Wireless Signal Rates[1]**
**With Automatic Fallback**
- D-Link 108AG: 108Mbps
- 54Mbps
- 48Mbps
- 36Mbps
- 24Mbp
- 18Mbps
- 12Mbps
- 11Mbps
- 9Mbps
- 6Mbps
- 5.5Mbps
- 2Mbps
- 1Mbps

**Security**
- 64-,128-, WEP
- WPA —Wi-Fi Protected Access (WEP with TKIP, MIC, IV, 802.1X)

**Wireless Frequency Range**
- 2.400GHz to 2.500GHz
- 5.150GHz to 5.850GHz

**Wireless Operating Range[2]**
Indoors: Up to 328 ft (100 meters)

**Modulation Technology**
- Orthogonal Frequency Division Multiplexing (OFDM)
- Complementary Code Keying (CCK)
- Direct Sequence Spread Spectrum (DSSS)

**Media Access Control**
CSMA/CA with ACK

**Receiver Sensitivity**
- 108Mbps Turbo Mode
- 54Mbps OFDM, 10% PER,-73dBm)
- 48Mbps OFDM, 10% PER,-76dBm)
- 36Mbps OFDM, 10% PER,-82dBm)
- 24Mbps OFDM, 10% PER,-85dBm)
- 18Mbps OFDM, 10% PER,-88dBm)
- 12Mbps OFDM, 10% PER,-89dBm)
- 11Mbps CCK, 8% PER,-91dBm)
- 9Mbps OFDM, 10% PER,-90dBm)
- 6Mbps OFDM, 10% PER,-91dBm)
- 5.5Mbps CCK, 8% PER,-92dBm)
- 2Mbps QPSK, 8% PER,-93dBm)
- 1Mbps BPSK, 8% PER,-94dBm)

**LEDs**
- Power
- WAN
- LAN (10/100)
- WLAN (Wireless Connection)
- Status (802.11a, 802.11g)

**External Antenna Type**
Single Non-Detachable Antenna

**Operating Temperature**
32°F to 131°F ( 0°C to 55°C)

**Humidity**
95% maximum (non-condensing)

**Power Input**
- 5V 3A

**Safety & Emissions**
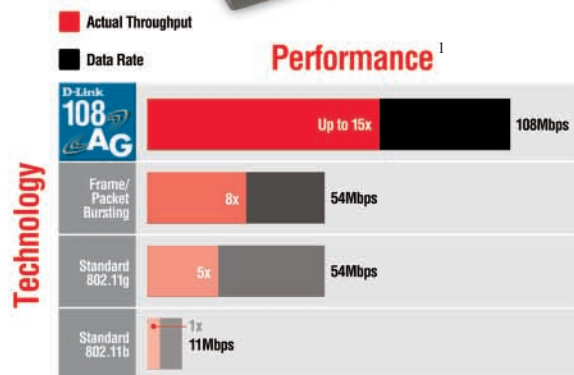FCC

**Dimensions/ Weight**
- L = 7.56 inches (192mm)
- W = 4.65 inches (118mm)
- H = 1.22 inches (31mm)
- 10.8 ounce (0.3kg)

**Warranty**
3 Year

[1] Maximum wireless signal rate derived from IEEE Standard 802.11a, 802.11b and 802.11g specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead lower actual data throughput rate.
[2] Environmental conditions may adversely affect wireless signal range.

### Technology



**Performance**[1]

| | | |
|---|---|---|
| D-Link 108 AG | Up to 15x | 108Mbps |
| Frame/ Packet Bursting | 8x | 54Mbps |
| Standard 802.11g | 5x | 54Mbps |
| Standard 802.11b | 1x 11Mbps | |

■ Actual Throughput
■ Data Rate

D-Link 108AG performance results are based on testing with other D-Link 108AG enabled devices utilizing Packet Bursting, FastFrames, Turbo Mode and Compression techniques. Data already compressed may not benefit from the D-Link 108AG compression technique.

### Advanced Firewall Features

| Feature | Available |
|---|---|
| NAT with VPN Passthrough (Network Address Translation) | ✓ |
| MAC Filtering | ✓ |
| IP Filtering | ✓ |
| URL Filtering | ✓ |
| Domain Blocking | ✓ |
| Scheduling | ✓ |

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