

## Wireless 108G MIMO Router

### For Extended Wireless Range Coverage

- Enhanced Wireless Coverage With Smart Antenna Technology
- Up to 8x Better Wireless Range Coverage\*\*
- Wireless Speeds Up to 108Mbps\*\*
- Advanced Security Schemes
- Backward Compatible With 802.11b/g Devices

#### FEATURES

##### Extensive Operation Range

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

##### High Performance Connectivity

- 802.11g Wireless Speeds
- Up to 54Mbps Wireless Data Transfer Rates \*
- Wireless speeds Up to 108Mbps\*\*

##### Wireless Security

- 64/128 bit WEP Data Encryption
- WPA, 802.1x User Authentication

##### Firewall Protection

- NAT/SPI Protection
- URL Blocking/Parental Control, Scheduling
- System Logging

\* Maximum wireless signal rate derived from IEEE standard 802.11g. Actual data throughput will vary. Network conditions and environmental factors lower actual data throughput rate.

\*\* Up to 108Mbps when operating with other wireless 108G MIMO and AirPlusXtremeG products, up to 8x signal range when operating with other wireless 108G MIMO products.



With the D-Link DI-634M wireless 108G MIMO router, you can create a robust wireless network that boasts powerful performance and extended coverage and enjoy the full benefits of wireless connectivity. You can now deploy the next-generation wireless network with dramatic performance improvements.

This router uses D-Link's latest Smart Antenna MIMO (Multiple Input Multiple Output) technology to provide up to 8 times better radio signal coverage. Combined with wireless speeds of up to 108Mbps, this router allows you to effectively implement high-bandwidth applications such as audio and video streaming, on-line gaming and large file transfer over a wireless network.

*Extended Wireless Operation Range.* Operating on the 2.4GHz frequency band, the DI-634M sends information out over multiple high Gain antennas. Radio signals typically reflect off objects, creating multiple paths that in conventional radios cause interference and fading. The DI-634M uses these paths to carry more information, which is recombined on the receiving side by the MIMO algorithms. As a result, the DI-634M 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 DI-634M 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, the DI-634M can boost the typical raw wireless speeds to 108Mbps, or a real throughput 8 times faster than that of standard 802.11g equipment.\*\*

*Investment Protection.* With backward compatibility to 802.11g and 802.11b industry standards, the DI-634M can operate seamlessly with your existing wireless devices. You don't have to replace your current network devices to experience the full benefits of extended range and Turbo speeds of this wireless router.

*Network Security.* The DI-634M provides NAT and Stateful Packet Inspection (SPI) firewall protection, as well as parental controls to monitor and maintain Internet usage. Combining these features with full system logging, Static DHCP, VPN pass-through, and Network Diagnostic Tools, this router ensures a fully protected network.

*Wireless Security.* The DI-634M supports both standard WEP and advanced WPA-Personal (WPA-PSK) data encryption. To further prohibit intruders' access to your network, the DI-634M can also be configured to invisible mode so the network name (SSID) cannot be scanned by outside wireless clients.

*Complete Wireless 108G MIMO Solution.* D-Link offers a complete solution with wireless 108G MIMO adapters and routers. This allows you to obtain the best results with a true MIMO implementation on both ends of a connection.





## Product Specifications

### Standards

- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.3
- IEEE 802.3u

### Device Interfaces

- 802.11g WLAN with 108G MIMO
- 10/100BASE-TX Ethernet port

### Media Access Control

CSMA/CA with ACK

### Wireless Frequency Range

2.4GHz to 2.4835GHz

### Wireless Signal Rates

(With Automatic Fallback)

- D-Link 108G: 108Mbps, 54Mbps, 18Mbps, 6Mbps, 48Mbps, 12Mbps, 5.5Mbps, 36Mbps, 11Mbps, 2Mbps, 24Mbps, 9Mbps, 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)

### Receiver Sensitivity

- 54Mbps OFDM, 10% PER: -71dBm
- 48Mbps OFDM, 10% PER: -71dBm
- 36Mbps OFDM, 10% PER: -78dBm
- 24Mbps OFDM, 10% PER: -82dBm
- 18Mbps OFDM, 10% PER: -85dBm
- 12Mbps OFDM, 10% PER: -87dBm
- 11Mbps CCK, 8% PER: -85dBm
- 9Mbps OFDM, 10% PER: -90dBm
- 6Mbps OFDM, 10% PER: -91dBm
- 5.5Mbps CCK, 8% PER: -88dBm
- 2Mbps QPSK, 8% PER: -89dBm
- 1Mbps BPSK, 8% PER: -92dBm

### 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.

### VPN Pass Through/Multi-Sessions

- PPTP
- IPSec

### Device Management

- Web-Based: Internet Explorer v6 or later; Netscape Navigator v7 or later; or other Java-enabled browsers
- DHCP Server and Client

### Diagnostic LEDs

- Power
- Status
- LAN (10/100Mbps)
- WLAN
- WAN

## Physical & Environmental

### Power Input

DC 5V, 3A

### Power Supply

Through external power adapter

### Dimensions

192 (L) x 118 (W) x 31 (H) mm  
(7.56 x 4.65 x 1.22 inches)

### Weight

0.3 kg (10.8 oz.)

### Operating Temperature

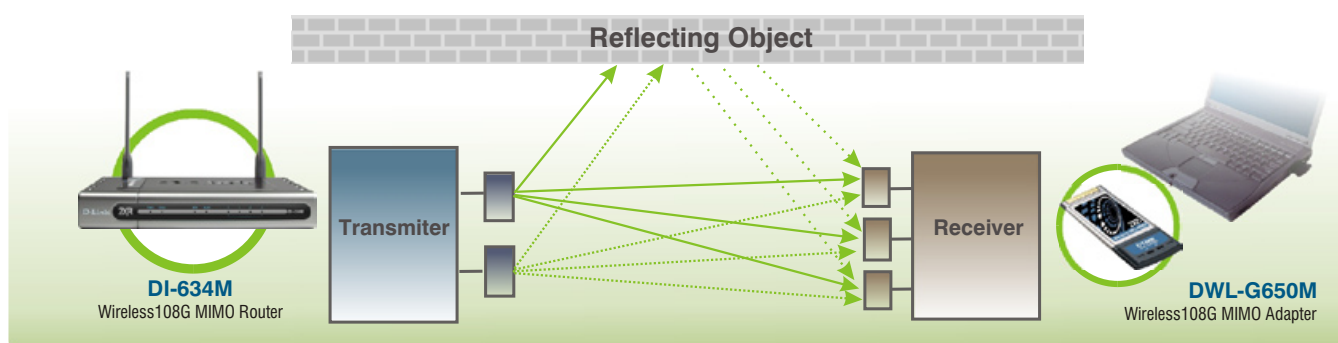
0° to 55° C (32° to 131° F)

### Operating Humidity

95% maximum (non-condensing)

### Emissions

- FCC Class B
- CE



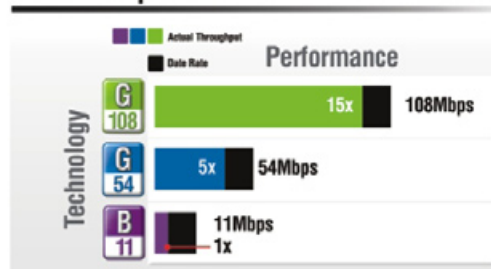
## Wireless 108G MIMO (Multiple Input, Multiple Output)

RF Signals Transferred Through Multiple Input/Output for Increased Throughput and Reliability

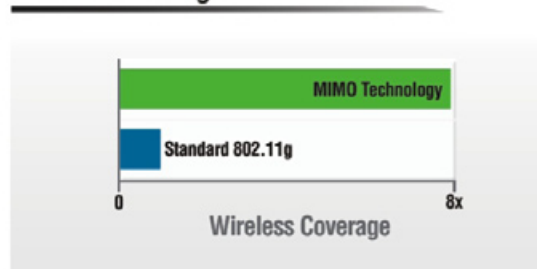


## Wireless 108G MIMO Router

### Faster Speeds \*



### Better Coverage \*



### Faster Speeds at Farther Distances Than Basic 802.11g

D-Link Wireless 108G MIMO features Smart Antenna Technology to reduce "dead" spots and distribute strong wireless signals across farther distances with enough bandwidth to stream multimedia content and transfer large files at phenomenal rates.

\* Up to 108Mbps when operating with other wireless 108G MIMO and AirPlus XtremeG products, up to 8x signal range when operating with other wireless 108G MIMO products.

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