

802.11g Wireless Range Extender

- **Increases Coverage Area of Wireless Network**
- **Works With 802.11g Wireless Routers and Access Points**
- **WEP Data Encryption and Wi-Fi Protected Access (WPA) Security**
- **Backward Compatible With 802.11b Wireless Devices**

FEATURES

- 802.11g 2.4GHz wireless standard
- Up to 54Mbps wireless data transfer rates *
- Extends wireless range by up to 100 meters
- Compatible with existing 802.11b wireless devices
- Detachable SMA reverse dipole antenna allows easy antenna replacement
- 10/100BASE-TX port for Ethernet connection
- Network security with WPA and 64/128-bit WEP data encryption
- Easy web-based configuration setup

* Maximum wireless signal rate based on standard 802.11g specifications. Actual data throughput will vary. Network conditions and environmental factors may lower actual data throughput rate.

AirPlus G

The D-Link AirPlus G DWL-G710 Wireless Range Extender functions as a repeater that increases the wireless signal range in large homes and buildings. This device takes an existing 802.11g wireless signal and repeats it to enable wireless connectivity in the basement, patio, garage or any "dead spot" areas where your original wireless signal could not reach. Transmitting data at up to 54Mbps speed, this device is an ideal way to extend the reach of your wireless network.

Operation Range Extension. Repeater signals are provided when the DWL-G710 is deployed in conjunction with a wireless router or access point. It can receive signals from router or access point up to 100 meters away, then re-broadcasts the signals to wireless clients beyond the edge of the original network. Range extension of up to 50% of the original network on a 2.4GHz frequency band.

802.11g Wireless Standard. Complying to the 802.11g WLAN standard, the DWL-G710 provides speeds of up to 54Mbps and is an ideal solution for bandwidth intensive wireless applications at home and office. It is also backward compatible with 802.11b standard wireless devices, providing seamless interoperability with the earlier standard equipment. By maintaining compatibility with your existing wireless network equipment, this device lets you upgrade to a higher speed while protecting your past investments in networking.

Network Security. The DWL-G710 provides standard WEP 64/128-bit data encryption and Wi-Fi Protected Access (WPA), which includes support for TKIP (Temporal Key Integrity Protocol), Pre Shared Key (PSK) and 802.1x user authentication (used in conjunction with a RADIUS server). MAC Address Filtering and Disable SSID Broadcast are additionally provided for you to set up a robust network security.

Simple Setup. A web-based Wizard allows you to set up the device and apply security settings for the device. After a quick configuration, you can place this range extender in close proximity of your wireless router or access point and begin offering a reliable connection to the rest of your home or office.



Product Specifications

Network Standards

- 802.11g wireless LAN
- 802.11b wireless LAN
- 802.3/802.3u 10BASE-T/100BASE-TX Ethernet

Media Access Control Protocol

CSMA/CA with ACK

Network Architecture Type

Infra-structure mode

Operating Frequency

2.4 to 2.4835 GHz ISM band

Operating Channels

- FCC: 11
- ETSI: 13

Radio and Modulation Schemes

DQPSK, DBPSK, CCK, OFDM

Receive Sensitivity (for 802.11b)

(at 8% PER)

- -82dBm at 11Mbps
- -85dBm at 5.5Mbps
- -87dBm at 2Mbps
- -87dBm at 1Mbps

Receive Sensitivity (for 802.11g)

(at 10% PER)

- -82dBm at 6Mbps
- -81dBm at 9Mbps
- -79dBm at 12Mbps
- -77dBm at 18Mbps
- -74dBm at 24Mbps
- -70dBm at 36Mbps
- -66dBm at 48Mbps
- -65dBm at 54Mbps

Wireless Transmit Power

Typical RF Output Power at each Data Rate

For 802.11g:

- 31mW (15dBm) @ 54Mbps
- 40mW (16dBm) @ 48Mbps
- 40mW (16dBm) @ 36, 24, 18, 12, 9, and 6Mbps

For 802.11b:

- 50mW (17dBm) @ 11, 5.5, 2, and 1Mbps

Security

64/128-bit WEP data encryption

Antenna

2dBi Gain detachable external omni-directional dipole antenna with RP-SMA connector

Operation Range

- Indoors: up to 100 meters *
- Outdoors: up to 300 meters *

* Environmental factors may adversely affect range

Device Management

Web-based management through Internet Explorer v.6 or later, Netscape Navigator v.7 or later or other Java-enabled browser

Physical & Environmental

Diagnostic LEDs

- Power
- WLAN
- LAN

Operating Voltage

5VDC 2A

Power Input

Through external power adapter

Dimensions

142 (L) x 109 (W) x 31 (H) mm
(5.59 x 4.29 x 1.22 inches)

Weight

200 grams (0.44 lb)

Operating Temperature

0° to 55°C

Storage Temperature

-20° to 65°C

Operating Humidity

10% to 90% non-condensing

Storage Humidity

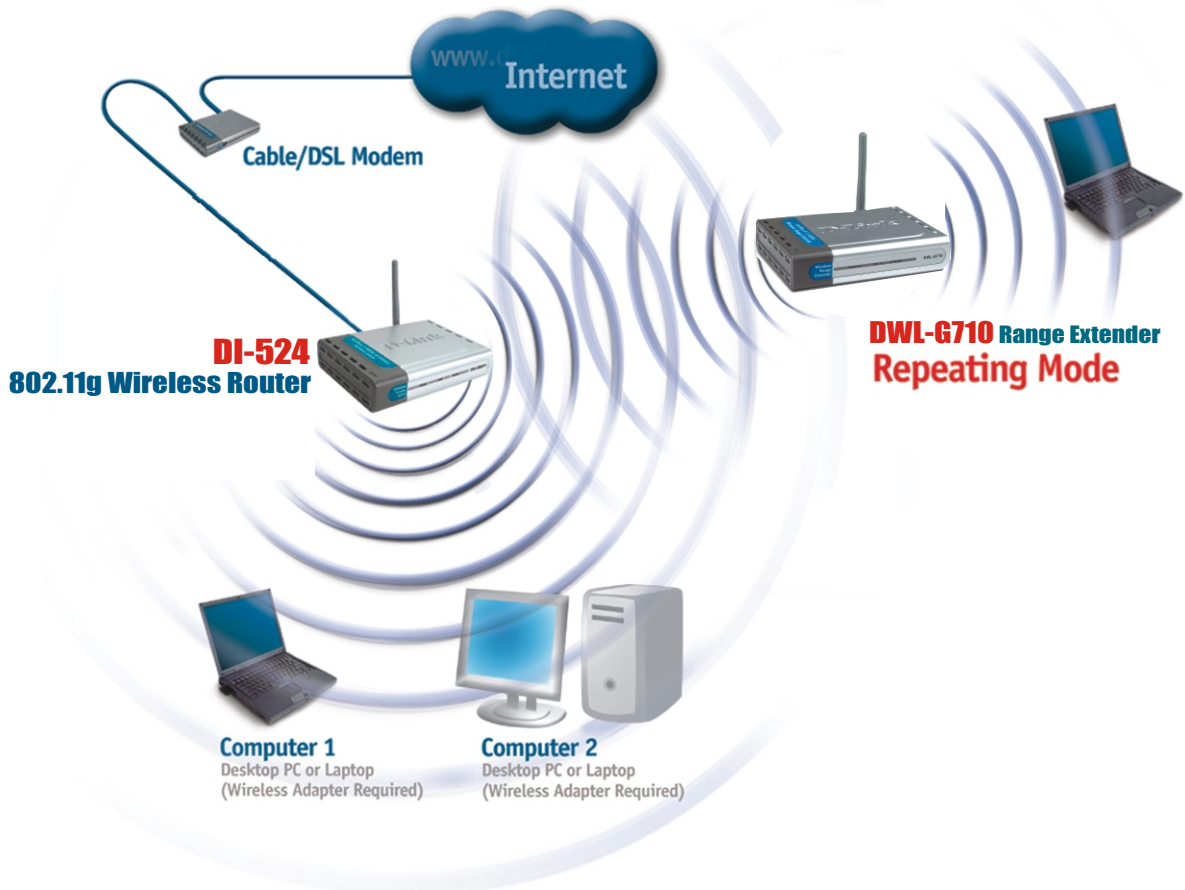
5% to 95% non-condensing

Certification

- FCC
- CE



802.11g Wireless Range Extender



Extending the Range of a Wireless Network

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