



AirPlus XtremeG™



The Standard for
Wireless Fidelity.

— DWL-2100AP

802.11g High-Speed Wireless Access Point

The AirPlusXtremeG DWL-2100AP is an enhanced high-performance 802.11g wireless Access Point for use indoors. This device supports wireless networking speeds of up to 108Mbps (Turbo mode), while providing seamless interoperability with existing 802.11b wireless equipment. With high data transfer rates, better security and built-in bridge function, this device is the ideal wireless solution that offers an upgrade to a fast, new technology while protecting your past investments through interoperability with your current network equipment.

Up to 108Mbps Speed on 2.4GHz Frequency Band

With transmission speeds of up to 108Mbps (Turbo mode) on the popular 2.4GHz public frequency, the DWL-2100 is an ideal solution for bandwidth intensive WLAN applications. In a typical working environment with multiple users accessing the network at the same time, the DWL-2100AP can operate at 15 times the throughput of the normal 802.11b wireless LAN equipment.

Compatible With 802.11b

802.11g's compatibility with existing wireless LAN standards means that you do not need to change your entire network to maintain connectivity. The DWL-2100AP can transmit data at up to 108Mbps when used with D-Link AirPlusXtremeG and other 802.11g products. You may sacrifice some of this speed when you mix 802.11b with this device, but you will not lose the ability to communicate.

Flexible Configuration

The DWL-2100AP can be configured to operate in any one of the 5 modes: (1) as a wireless access point, (2) a point-to-point bridge with another access point, (3) a point-to-multi-point wireless bridge, (4) a wireless client or (5) a wireless repeater. With these built-in functions, the DWL-2100AP gives you the flexibility to configure the device to meet your environment's requirements.

Easy Migration to Higher Bandwidth

By maintaining compatibility with your existing wireless network equipment, the DWL-2100AP lets you upgrade to a higher speed at the pace you want. The DWL-2100AP and other 802.11g standard devices can be gradually added to your network, while the rest of your older network remains perfectly connected.

Wi-Fi™ Protected Access

Enhanced security is provided with Wi-Fi™ Protected Access to authorize and identify users based on a secret key that changes automatically at a regular interval. Used in conjunction with a RADIUS server, WPA employs TKIP (Temporal Key Integrity Protocol) to change the temporal key every 10,000 packets. This insures much greater security than the standard WEP security, which requires the keys to be changed manually.

802.1x Authentication

The DWL-2100AP supports 802.1x authentication for protection against network intrusion. Used in conjunction with a RADIUS server, this function provides a means to verify the identity of the client before an access to the network is granted.

Pre-Shared Key

This function brings a lot of convenience (when used in conjunction with other 802.11g products) for users that do not incorporate a RADIUS server in their networks. Utilizing the Pre Shared Key mode of WPA, the DWL-2100AP gives each user a new security key every time he connects to the 802.11g network. Users only need to input their encryption information once in the configuration menu. With the DWL-2100AP, each user will automatically receive a new key every time he connects, the inconvenience of manual WEP key input is eliminated.

Embedded DHCP Server

The DWL-2100AP includes an embedded DHCP server that once enabled will automatically assign IP addresses to wireless clients. This unique feature makes the DWL-2100AP an ideal solution for quickly creating and extending a wireless local area network (WLAN) in offices or other workplaces, and at

Key Features

- 802.11g 2.4GHz standard
- Up to 108Mbps (Turbo mode) high-speed transmission
- 10/100BASE-TX port for connection to Ethernet or DSL/cable modem
- Compatible with existing 802.11b wireless devices
- Built-in DHCP server for multiple user access
- 5 operation modes: AP, AP client, point-to-point bridge, point-to-multi-point bridge, repeater
- 64/128/152-bit WEP data encryption
- WPA security with 802.1x RADIUS user authentication
- Web-based configuration & management

DWL-2100AP

Technical Specifications

2.4GHz Wireless LAN

Standards

- IEEE 802.11g, 802.11b wireless LAN
- IEEE 802.3 Ethernet/IEEE 802.3u Fast Ethernet

Device Management

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

Wireless Data Rates

(With Automatic Fallback)

54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 11 Mbps, 9 Mbps, 6 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps

Security

- 64/128/152-bit WEP data encryption
- 802.1x authentication
- WPA: Wi-Fi Protected Access
(TKIP, MIC, IV Expansion, Shared Key Authentication)

Media Access Control

CSMA/CA with ACK

Wireless Frequency Range

- 802.11b: 2400 to 2483.5MHz ISM band
- 802.11g: 2400 to 2483.5MHz ISM band

RF Modulation Schemes

- 802.11b: DQPSK, DBPSK and CCK
- 802.11g: BPSK, QPSK, 16QAM, 64QAM, OFDM

Receive Sensitivity (802.11b)

- @ 8% PER (packet error rate)
- 11 Mbps: -83 dBm
- 2 Mbps: -89 dBm

Receive Sensitivity (802.11g)

Frame: 1000byte PDUs, @ 10% PER (packet error rate)

- 54 Mbps: -66 dBm
- 48 Mbps: -71 dBm
- 36 Mbps: -76 dBm
- 24 Mbps: -80 dBm
- 18 Mbps: -83 dBm
- 12 Mbps: -85 dBm
- 9 Mbps: -86 dBm
- 6 Mbps: -87 dBm

Transmit Output Power (802.11b)

18 dBm @ 11Mbps, 5.5Mbps, 2Mbps, 1Mbps

Transmit Output Power (802.11g)

- 14 to 15 dBm @ 54Mbps, 108Mbps,
- 14 to 16 dBm @ 48Mbps
- 16 to 18 dBm @ 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, 6Mbps

Antenna

- 2dBi Gain detachable dipole antenna with reverse SMA connector
- 2dBi Gain internal antenna

Wireless Operating Range *

- Indoors: Up to 100 m (328 feet)
- Outdoors: Up to 400 m (1,312 feet)

* Environmental factors may adversely affect operation range.

LEDs Power

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

Physical & Environmental

Power Input

- DC 5V, 2.0A
- Through external power adapter

Power Consumption

5 watts (max.)

Dimensions

142 (L) x 109 (W) x 31 (H) mm

Operating Temperature

0° to 55 °C

Storage Temperature

-20° to 75 °C

Humidity

95% maximum (non-condensing)

EMI Certification

- FCC Class B
- CE Class B



Ordering Information

DWL-2100AP 802.11g Access Point

Please specify your order as follows:

DWL-2100AP/ANA	US power adapter, North America frequency
DWL-2100AP/EEU	EU power adapter, EU frequency
DWL-2100AP/ENA	EU power adapter, North America frequency
DWL-2100AP/BEU	UK power adapter, EU frequency
DWL-2100AP/NEU	Australia power adapter, EU frequency
NDWL-2100AP	China power adapter, China frequency
TDWL-2000AP	For Taiwan
CDWL-2100	For Canada
DWL-2100/IS	For Israel

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Europe	TEL: 44-20-8731-5555	FAX: 44-20-8731-5511
Germany	TEL: 49-6196-77990	FAX: 49-6196-7799300
France	TEL: 33-1-30238688	FAX: 33-1-30238689
Benelux	TEL: 31-10-282-1445	FAX: 31-10-282-1331
Italy	TEL: 39-2-2900-0676	FAX: 39-2-2900-1723
Iberia	TEL: 34-93-4090770	FAX: 34-93-4910795
Sweden	TEL: 46-(0)8564-61900	FAX: 46-(0)8564-61901
Norway	TEL: 47-22-309075	FAX: 47-22-309085
Denmark	TEL: 45-43-969040	FAX: 45-43-424347
Finland	TEL: 358-9-2707-5080	FAX: 358-9-2707-5081
Singapore	TEL: 65-6774-6233	FAX: 65-6774-6322
Australia	TEL: 61-2-8899-1800	FAX: 61-2-8899-1868
Japan	TEL: 81-3-5434-9678	FAX: 81-3-5434-9868
China	TEL: 86-10-8518-2533	FAX: 86-10-8518-2250
India	TEL: 91-022-652-6696	FAX: 91-022-652-8914
Middle East (Dubai)	TEL: 9714-8834234	FAX: 9714-8834394
Turkey	TEL: 90-212-335-2553	FAX: 90-212-335-2500
Egypt	TEL: 202-414-4295	FAX: 202-415-6704
Israel	TEL: 972-9-9715700	FAX: 972-9-9715601
Latinamerica	TEL: 56-2-232-3185	FAX: 56-2-232-0923
Brasil	TEL: 55-11-55039320	FAX: 55-11-55039321
South Africa	TEL: 27(0)1266-52165	FAX: 27(0)1266-52186
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