



AirPlus

— DWL-800AP+

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Dual function wireless LAN
repeater/access point

802.11b+ Wireless Ranger Extender

The AirPlus DWL-800AP+ is an access point for 802.11b+ wireless LAN with a built-in repeater function that increases the wireless range in large homes and buildings. Range extension can be up to 50% on a 2.4GHz wireless LAN. Transmitting data at the enhanced 22Mbps speed, this device is an ideal way to extend the reach and number of computers connected on your wireless network.

Range Extension of up to 100 Meters

Repeater signals are provided when this device is deployed in conjunction with either a wireless router or a second access point. The device can receive signals from a wireless router or access point up to 100 meters (328 feet) away, then rebroadcasts the signals to wireless clients beyond the edge of the original network.

Two Operation Modes: Repeater and Access Point

The device can operate in two different modes: the repeater and the access point mode. This makes it a convenient device that can be installed as an access point at homes or offices with normal wireless operation range requirements, or as a repeater when the number of wireless users increases and spreads in a wider area.

This device works seamlessly with D-Link AirPlus DI-614+ enhanced wireless router; the AirPlus DI-714P+ enhanced wireless router with print server, the AirPro DI-764 multimode wireless router, the AirPro DI-754 multimode wireless router with the DWL-650+, and the AirPremier DWL-1000AP+ enterprise wireless access point.

Ideal for Large Homes and Buildings

Strictly complying to industry standards, this device gives you transmission speeds of up to 22Mbps, 256-bit enhanced security, extended wireless range and interoperability with 802.11b wireless LAN equipment and Ethernet-based networks, ideal for use in large homes and buildings.

Network Security

Security is an issue when data is transmitted without the wires. In the air, transmitted data can be easily intercepted if not well protected by a security scheme. This device provides the necessary security, using the enhanced 64/128/256-bit industry-standard WEP (Wired Equivalent Privacy) encryption protocol. Data privacy mechanism is based on a shared key algorithm, as described in the wireless LAN standard.

Detachable Antenna

This device is equipped with a detachable omni directional antenna with an effective range of 100 meters indoors, or 400 meters outdoors. Connected through a standard reverse SMA connector, this antenna can be easily removed and replaced it with a higher Gain antenna when a longer range is required.

Key Features

- 802.11b+ 2.4GHz industry standard with wide range of wireless LAN interoperability
- Dual repeater and access point function
- Extends wireless range up to 100 meters
- Up to 22Mbps enhanced data transfer rates
- 10/100Mbps auto-sensing Fast Ethernet port to bridge wireless LAN to Ethernet-based network
- Auto MDI/MDIX function for simple connection to Ethernet device using normal straight-through Ethernet cable
- Strong 256-bit WEP encryption for higher level data protection
- Detachable SMA reverse dipole antenna allows easy antenna replacement
- Web-based configuration with easy Wizard setup

General

Standards

- 802.11b+ wireless LAN
- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX Fast Ethernet

Reception Sensitivity Nominal Temp Range

- 22Mbps: 10-5 BER @ -80 dBm minimum
- 11Mbps: 10-5 BER @ -79 dBm minimum
- 5.5Mbps: 10-5 BER @ -83 dBm minimum
- 1Mbps: 10-5 BER @ -89 dBm minimum

Data Rates

- 22Mbps
- 11Mbps
- 5.5Mbps
- 2Mbps
- 1Mbps
- Auto fall-back

Frequency Range

2.4GHz to 2.4835GHz

Modulation Technique

- PBCC (Packet Binary Convolutional Coding)
- DSSS (Direct Sequence Spread Spectrum)
- 11-chip Barker sequence

Data Rate & Modulation

- 22Mbps/8.5db: PBCC
- 11Mbps/4.5db: PBCC/CCK
- 11Mbps/8.5db: CCK
- 5.5Mbps/1.5db: PBCC/CCK
- 5.5Mbps/5.5db: CCK
- 2Mbps/3db: Barker
- 1Mbps/0db: Barker

Operating Channels

- North America (FCC): 11
- Canada (DOC): 11
- Europe (ETSI): 13
- Japan (MKG): 14

Antenna

Detachable external omni directional antenna (reverse SMA connector)

Operating Range

- Indoor: up to 100 meters (328 feet)*
- Outdoor: up to 400 meters (1,312 feet)*

* Environmental factors may adversely affect range

Transmitter Output Power

15dBm ±2dB

Data Security

64-bit, 128-bit and 256-bit WEP (Wired Equivalent Privacy) encryption

Wireless LAN to Ethernet Interface

RJ-45 10/100Mbps Fast Ethernet port with auto MDI/MDIX

Operation Modes

- Repeater
- Access Point

Configuration & Management

Web-Based through Internet Explorer v.6 or later, Netscape Navigator v.6 or later, or other Java-enabled browsers

Diagnostic LEDs

- Power
- WLAN

Physical & Environmental

Power Input

- DC 5V, 2.5A
- Through external power adapter

Dimensions

90 (L) x 82 (W) x 40 (H) mm
(3.5 x 3.2 x 1.6 inches)

Weight

153 grams (0.34 lbs)

Operating Temperature

0° - 55° C (32° - 131° F)

Storage Temperature

-20° - 75° C (4° - 167° F)

Humidity

Up to 95% non-condensing

EMI Certification

- FCC Class B
- CE Class B

Safety Certification

UL



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Ordering Information

DWL-800AP+ 802.11b+ Wireless LAN Range Extender

Please specify your model number as follows:

DWL-800AP+/ANA	Includes US standard AC power adapter, North America frequency
DWL-800AP+/BEU	Includes UK standard AC power adapter, EU frequency
DWL-800AP+/EEU	Includes EU standard AC power adapter, EU frequency
DWL-800AP+/NEU	Includes Australia standard AC power adapter, EU frequency
DWL-800AP+/UNA	Includes no AC power adapter, North America frequency
DWL-800AP+/UEU	Includes no AC power adapter, EU frequency



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