



DWL-900AP+

Wireless LAN Access Point with 22Mbps enhanced network speed and detachable antenna.

2.4GHz Enhanced Performance Wireless LAN Access Point

The D-Link AirPlus™ DWL-900AP+ is an Access Point that gives 2.4GHz wireless LAN users fast, secure access to an IEEE 802.11b wireless Local Area Network (LAN). With data transfer rates at up to 22Mbps, this Access Point provides twice the speed of other IEEE 802.11b Access Points, while adding a strong 256-bit security scheme for your data traveling on the wireless LAN. Strictly complying to industry standards, the DWL-900AP+ gives you the speed, security and other enhanced features without compromising interoperability with all 802.11b wireless LAN equipment and Ethernet-based networks.

Range Extension

The DWL-900AP+ Access Point connects the wireless LAN nodes (workstations, print servers, etc.) together via a 2.4GHz IEEE 802.11b wireless interface. It listens to all data traffic on all its interface and maintains a MAC address database. MAC address information is updated dynamically. When necessary, the DWL-900AP+ the Address Resolution Protocol (ARP) to match IP addresses to MAC addresses and stores ARP information in its database as well.

Access Control

Through Wi-Fi™ Protected Access and Access Control Lists that contain the MAC address of every wireless device, you can set up filters to prevent unauthorized access to network resources.

Efficiency Improvement

The DWL-900AP+ can discriminate based on the destination address of packets it handles by maintaining a list of disallowed destinations. This helps improve efficiency by eliminating unnecessary transmission of data packets.

Enhanced Speed Transmission

At 22Mbps, the DWL-900AP+ delivers high data transfer rate within the industry standard. This speed is double the 11Mbps normally found in other 2.4GHz wireless LAN Access Points.

Industry-standard Interoperability

The DWL-900AP+ delivers speeds without compromising compatibility. With both WiFi™ certification and IEEE 802.11b wireless LAN industry standard compliance, the DWL-900AP+ provides you with excellent network interoperability.

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. The DWL-900AP+ 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.

Built-in DHCP Server

DHCP server function is built into this Access Point that automatically assign IP addresses to connected wireless nodes. This eliminates for you the need to install a separate DHCP server on the network.

Detachable Antenna

The DWL-900AP+ is equipped with an SMA reverse detachable dipole antenna with an effective range of 100 meters indoors, or 400 meters outdoors. Where a longer range is required, you can easily remove this antenna and replace it with a higher Gain antenna.

Features

- IEEE 802.11b DSSS 2.4GHz standard
- Up to 22Mbps enhanced data transfer rates
- 10/100Mbps auto-sensing Fast Ethernet port to bridge wireless LAN to Ethernet-based network
- Seamless roaming from cell to cell and Access Points
- 256-bit WEP data encryption
- Access control and 802.1x client authentication support in Windows XP environment
- Wi-Fi™ Protected Access (WPA) support *
- Built-in DHCP server
- Built-in AP-to-AP bridge, AP-to-multi-point bridge, wireless client bridge
- Detachable SMA reverse dipole antenna
- Web-based configuration & management with JavaScript

* Function available in firmware upgrade in near future

DWL-900AP+

Technical Specifications

2.4 GHz Wireless LAN Access Point

General

Standards

- IEEE 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

Frequency Range

- 2.4 - 2.4835 GHz

Modulation Techniques

- Direct Sequence Spread Spectrum (DSSS)
- Packet Binary Convolutional Coding (PBCC)

Data Rates

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

Data Rate & Modulation

- 22Mbps: PBCC
- 11Mbps: PBCC or CCK
- 5.5Mbps: PBCC or CCK
- 2Mbps: Barker

Operating Channels

- North America (FCC): 11
- Canada (DOC): 11
- Europe (ETSI): 13 (Except Spain and France)
- Japan (MKK): 14

Hardware

Wireless LAN to Ethernet Interface

Through RJ-45 10/100Mbps Fast Ethernet port

Antenna

Detachable 2dBi Gain antenna (reverse SMA connector)

Transmitter Output Power

15dBm \pm 2dB

Operating Range

- Up to 100 m (328 feet) indoors*
- Up to 400 m (1,312 feet) outdoors*

* Environmental factors may adversely affect operating range

Diagnostic LEDs

- Power
- Link
- Tx/Rx

Software

Operating Modes

- Access Point
- Access Point to Access Point bridging
- Access Point to multi-point bridging
- Wireless client

Roaming

Among Access Points on the same subnet

Network Protocols Supported

- TCP/IP
- IPX/SPX
- NetBEUI
- ARP
- SNMP
- DHCP
- NDIS3
- NDIS4

IP Number Assignment

Automatic through built-in DHCP server

Security

- Data encryption: 64-bit, 128-bit, 256-bit WEP (Wired Equivalent Privacy)
- Connected node access control list

Configuration & Management

- Manage wireless LAN, network connection and client access control through web browser (Java Script supported)

- TFTP client for firmware upgrade
- Set IP session (ARP/ping)
- DHCP client (IP number self-assignment)

Physical & Environmental

Power Input

- DC 5V, 2.5A
- Uses external AC power adapter

Dimensions

142 x 145 x 32 mm
(5.59 x 5.71 x 1.26 inches)

Weight

288 grams (0.636 lb.)

Operating Temperature

0^o - 55^oC (32^o - 131^oF)

Storing Temperature

-20^o - 65^oC (-4^o - 149^oF)

Humidity

5% - 95%, non-condensing

EMI Certification

- FCC Class B
- CE Class B

Safety Certification

- UL 1950-3

Compatibility

Wi-Fi™

MBTF (Mean Time Between Failure)

> 30,000 hours



Ordering Information

802.11b+ Wireless LAN Access Point DWL-900AP+ Wireless LAN Access Point

Please specify your model number as follows:

DWL-900AP+/ANA	Includes USA standard AC power adapter, North America frequency
DWL-900AP+/BEU	Includes UK standard AC power adapter, EU frequency
DWL-900AP+/EEU	Includes EU standard AC power adapter, EU frequency
DWL-900AP+/CN	Includes China standard AC power adapter, EU frequency
DWL-900AP+/NEU	Includes Australia standard AC power adapter, EU frequency
DWL-900AP+/UNA	Includes no AC power adapter, North America frequency
DWL-900AP+/UEU	Includes no AC power adapter, EU frequency

IEEE 802.11b Wireless Starter Kit

DWL-905+ 2 Wireless LAN CardBus Adapters (DWL-650+)
1 Access Point (DWL-900AP+)



Specifications subject to change without prior notice.
D-Link is a registered trademark of D-Link Corporation/D-Link System Inc. All other trademarks belong to their proprietors.

U.S.A	TEL: 1-714-885-6000	FAX: 1-866-743-4905
Canada	TEL: 1-905-8295033	FAX: 1-905-8295223
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
Russia	TEL: 7-095-744-0099	FAX: 7-095-744-0099#350
Taiwan	TEL: 886-2-2910-2626	FAX: 886-2-2910-1515
D-Link Corp.	TEL: 886-2-2916-1600	FAX: 886-2-2914-6299



RECYCLABLE
Rev. 05 (Jan. 2004)

