



DWL-1000AP+

Enterprise-level wireless LAN Access Point

2.4GHz Enhanced Performance Wireless LAN Access Point

The DWL-1000AP+ Access Point gives 2.4GHz wireless LAN users fast, secure access to an 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-1000AP+ 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-1000AP+ Access Point connects the wireless LAN nodes (workstations, print servers, etc.) together via a 2.4GHz 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-1000AP+ uses the Address Resolution Protocol (ARP) to match IP addresses to MAC addresses and stores ARP information in its database as well. With its repeater mode, the DWL-1000AP+ extends the range of your wireless LAN network with interoperability with D-Link AirPlus DWL-900AP+, DI-614+, DI-714P+, AirPro DI-764 and DI-754 (with inserted DWL-650+).

Access Control

Through an Access Control List that contains the MAC address of every wireless device, you can set up filters to prevent unauthorized access to network resources.

Efficiency Improvement

The DWL-1000AP+ 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-1000AP+ 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.

Advanced Enterprise Functions

Advanced functions such as Dynamic Channel Selections (DCS), AP group and AP backup are built into the DWL-1000AP+ to provide you with an enhanced, secure network environment.

Industry-standard Interoperability

The DWL-1000AP+ delivers speeds without compromising compatibility. With both WiFi™ and IEEE 802.11b wireless LAN industry standard compliance, the DWL-1000AP+ 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-1000AP+ 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.

Key Features

- 802.11b+ 22Mbps enhanced data transfer rate
- 2 10/100Mbps auto-sensing Fast Ethernet ports to bridge wireless LAN to Ethernet-based network
- Seamless roaming from cell to cell and among Access Points
- 64/128/256-bit WEP data encryption
- Administrator-defined user access control
- Built-in DHCP server
- Dynamic Channel Selection
- AP group, AP backup functions
- Extra port isolation & 802.1x authentication function
- Operating modes supported: AP-to-AP bridge, AP-to-multi-point bridge, wireless client bridge, wireless LAN repeater
- Dual dipole high diversity antennas
- Web-based configuration & management with JavaScript
- Built-in MIBs for SNMP management

DWL-1000AP+

Technical Specifications

2.4GHz Wireless LAN

General

Standards

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

Frequency Range

2.4 - 2.4835 GHz

Operating Channels

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

Radio & Modulation Technology

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

Modulation Techniques

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

Data Rates

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

Antenna

Dual 2dbi Gain dipole fixed antennas

Transmitter Output Power

15dBm \pm 2dB

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

Operating Range

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

* Environmental factors may adversely affect operating range

Wireless LAN to Ethernet Interface

2 RJ-45 10/100Mbps Fast Ethernet ports

Diagnostic LEDs

- Power/Status
- Diagnostic
- Wireless
- Ethernet

Software

- Operating Modes
- Access Point
- Access Point to Access Point bridging
- Access Point to multi
- Point bridging
- Wireless client
- Repeater

Roaming

Among Access Points on the same subnet

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, 2A
- Uses external AC power adapter

Dimensions

235 (L) x 162 (W) x 36 mm

Weight

533 grams

Operating Temperature

-10° - 50°C

Storing Temperature

-20° - 65°C

Humidity

5% - 95%, non-condensing

EMI Certification

- FCC Class B
- CE Class B
- C-Tick
- BSMI Class B
- R&TTE

Safety Certification

- UL
- LVD (EN60950)



Ordering Information

802.11b+ Wireless LAN Access Point

DWL-1000AP+ Wireless LAN Access Point

Please specify your model number as follows:

DWL-1000AP+/ANA	Includes US standard AC power adapter, North America frequency
DWL-1000AP+/BEU	Includes UK standard AC power adapter, EU frequency
DWL-1000AP+/EEU	Includes EU standard AC power adapter, EU frequency
DWL-1000AP+/CN	Includes China standard AC power adapter, EU frequency
DWL-1000AP+/NEU	Includes Australia standard AC power adapter, EU frequency
DWL-1000AP+/UNA	Includes no AC power adapter, North America frequency
DWL-1000AP+/UEU	Includes no AC power adapter, EU frequency

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Germany	TEL: 49-6196-77990	FAX: 49-6196-7799300
France	TEL: 33-1-30238688	FAX: 33-1-30238689
Benelux	TEL: 31-10-2045740	FAX: 31-10-2045880
Italy	TEL: 39-2-2900-0676	FAX: 39-2-2900-1723
Iberia	TEL: 34-93-4090770	FAX: 34-93-4910795
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Denmark	TEL: 45-43-969040	FAX: 45-43-424347
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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: 91-22-652-6696	FAX: 91-22-652-8914
Middle East	TEL: 9714-8834234	FAX: 9714-8834394
Turkey	TEL: 90-212-335-2553	FAX: 90-212-335-2500
Chile	TEL: 56-2-232-3185	FAX: 56-2-232-0923
Brasil	TEL: 55-11-3094-2910	FAX: 55-11-3094-2921
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