

802.11a/g Indoor Dualband Access Point

For Business-Class Environments

- Secure/Manageable Dualband Operation
- 108Mbps Turbo Mode High-Speed Wireless Connectivity
- Operable as Access Point or Wireless Bridge
- Advanced Security Schemes
- Solid Plenum Metal Chassis With 802.3af Power Over Ethernet Support

FEATURES

For Business-Class Environments

- Concurrent Operation in Both 2.4GHz & 5GHz Frequency Bands
- Dual 5dBi High-Gain Dualband Antennas
- Up to 108Mbps Turbo Mode *
- Dual Ethernet Ports With 802.3x Flow Control

Multiple Operation Modes

- Access Point
- WDS With AP
- WDS

Trusted Security Features

- 802.11i (WPA2) With AES
- WPA Personal/Enterprise
- 802.1x User Authentication With RADIUS Support
- MAC Address Filtering
- 64/128-Bit WEP Data Encryption
- Dual Port Ethernet Connection With 802.1q VLAN Support

Convenient Installation

- 802.3af Power over Ethernet
- Solid Metal Housing
- Locking Brackets Included

Versatile Management

- AP Manager
- Web Browser (HTTP)
- Telnet
- SNMP v.3

* Maximum wireless signal rate based on IEEE Standard 802.11a and 802.11g specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead lower actual data throughput rate. 108Mbps Turbo mode operation in 5GHz frequency band not allowed in EU countries

The DWL-8200AP is a business-class 802.11a/g dualband access point that provides secure and manageable dualband wireless LAN options. With wireless speeds of up to 108Mbps and dual high-gain dualband antennas, this access point provides optimal wireless coverage in both the 5GHz 802.11a and 2.4GHz 11g frequency bands. Enclosed in a plenum metal chassis, the DWL-8200AP adheres to strict fire codes and ensures complete safety. For advanced installations, this access point has an integrated 802.3af Power over Ethernet (PoE) support, allowing installation of this device in areas where power outlets are not readily available.

Dualband Operation. The DWL-8200AP delivers concurrent wireless performance with maximum wireless signal rates of up to 54Mbps (108Mbps Turbo mode) in both frequency bands simultaneously. With dualband connectivity, 2 networks are created both running at full bandwidth speeds, offering a significant increase in total network capacity. At the same time, the DWL-8200AP remains fully backward compatible with the IEEE 802.11b standard in the 2.4GHz frequency.

Advanced Security. The DWL-8200AP provides the latest wireless security technologies by supporting both Personal and Enterprise versions of WPA and WPA2 (also known as 802.11i) with RADIUS support to ensure complete network protection. Other security features included in this access point are MAC address filtering, wireless LAN segmentation, disable SSID broadcast, and support for Advanced Encryption Standard (AES) data encryption.

Multiple SSID. For additional network access security, if the DWL-8200AP is connected to a switch that supports VLAN tagging (802.1q), the VLAN enabled DWL-8200AP can appropriately provide network access options. Based on VLAN tagging infrastructure, the DWL-8200AP also features multiple SSID support to further help segment users on the network. The DWL-8200AP includes a wireless client isolation mechanism, which limits direct client-to-client communication.

Multiple Operation Modes. The DWL-8200AP can be configured to operate as an access point, Wireless Distribution System (WDS) with access point, or WDS wireless backbone. With WDS support, network administrators can set up multiple DWL-8200APs throughout the facility and configure them to bridge with one another on one band and provide network access on the other.

Network Management. The DWL-8200AP can be configured via a web-based utility or Telnet. D-Link's AP Manager or D-View SNMP management module can be used to manage multiple access points from a single location. In addition to a streamlined management process, the AP Manager or D-View software provide network administrators with the means of verifying and conducting regular maintenance checks without wasting resources by sending personnel out to physically verify proper operation.



AirPremier™



DWL-8200AP

Product Specifications

Standards

- IEEE 802.11a, 802.11b, 802.11g wireless LAN
- IEEE 802.3, 802.3u Ethernet
- IEEE 802.3x flow control
- IEEE 802.3af Power over Ethernet (PoE)

Data Transfer Rates

- For 802.11a/g:**
108, 54, 48, 36, 24, 18, 12, 9 and 6Mbps
- For 802.11b:**
11, 5.5, 2, and 1Mbps

Wireless Frequency Range

- 2.4GHz to 2.4835GHz
- 5.15GHz to 5.35GHz and 5.725GHz to 5.825GHz

Radio and Modulation Type

- For 802.11b (DSSS):**
DBPSK @ 1Mbps
DQPSK @ 2Mbps
CCK @ 5.5 and 11Mbps
- For 802.11a/g (OFDM):**
BPSK @ 6 and 9Mbps
QPSK @ 12 and 18Mbps
16QAM @ 24 and 36Mbps
64QAM @ 48, 54 and 108Mbps
- For 802.11a/g (DSSS):**
DBPSK @ 1Mbps
DQPSK @ 2Mbps
CCK @ 5.5 and 11Mbps

Transmit Output Power

- For 802.11a:**
63mW (18dBm)
40mW (16dBm)
32mW (15dBm)
6mW (7dBm)
1mW (0dBm)
- For 802.11b:**
100mW (20dBm)
63mW (18dBm)
40mW (16dBm)
32mW (15dBm)
23mW (13dBm)
10mW (10dBm)
6mW (7dBm)
1mW (0dBm)

- For 802.11g:**
100mW (20dBm)
63mW (18dBm)
40mW (16dBm)
32mW (15dBm)
6mW (7dBm)
1mW (0dBm)

Receiver Sensitivity

- For 802.11a:**
6Mbps: -87dBm
9Mbps: -86dBm
11Mbps: -88dBm
12Mbps: -85dBm
18Mbps: -83dBm
24Mbps: -80dBm
36Mbps: -76dBm
48Mbps: -71dBm
54Mbps: -71dBm
- For 802.11b:**
1Mbps: -92dBm
2Mbps: -89dBm
5.5Mbps: -88dBm
11Mbps: -83dBm
- For 802.11g:**
1Mbps: -95dBm
2Mbps: -91dBm
5.5Mbps: -89dBm
6Mbps: -87dBm
9Mbps: -85dBm
11Mbps: -88dBm
12Mbps: -80dBm
18Mbps: -80dBm
24Mbps: -77dBm
36Mbps: -73dBm
48Mbps: -72dBm
54Mbps: -72dBm

Wireless Operating Range

802.11g (full power with 5dBi gain diversity dipole antenna) *

- Indoors:**
30 m (98 ft) @ 54Mbps
32 m (105 ft) @ 48Mbps
37 m (121 ft) @ 36Mbps
45 m (148 ft) @ 24Mbps
62 m (203 ft) @ 18Mbps
68 m (223 ft) @ 12Mbps
77 m (253 ft) @ 9Mbps
92 m (302 ft) @ 6Mbps
- Outdoors:**
100 m (328 ft) @ 54Mbps
295 m (968 ft) @ 11Mbps
420 m (1,378 ft) @ 6Mbps

* Environmental factors may adversely affect operation range.

Security

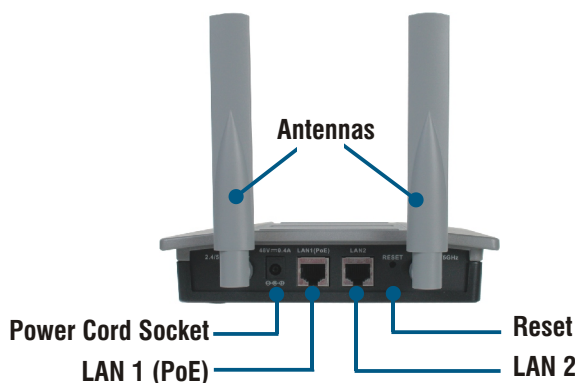
- WPA Enterprise
- WPA Personal
- WPA2 Enterprise
- 64/128/152-bit WEP data encryption
- MAC Address Access Control List

Device Management

- Web-based: Internet Explorer v.6 or later; Netscape Navigator v.7 or later; or other Java-enabled browsers
- Telnet
- AP Manager
- SNMP v.3

Diagnostic LEDs

- Power
- Status
- LAN 1
- LAN 2
- 802.11b/g
- 802.11a



Physical & Environmental

Operating Voltage

48VDC +/- 10% for PoE

Power Supply

Through 48DCV, 0.4A external power adapter

Power Consumption

6.72 watts (140mA) (max.)

Dimensions

277.7 (L) x 155 (W) x 45 (H) mm (10.93 x 6.10 x 1.77 inches)

Operating Temperature

0° to 40°C (32° to 104°F)

Storage Temperature

-20° to 65°C (-4° to 149°F)

Operating Humidity

10% to 90% (non-condensing)

Storage Humidity

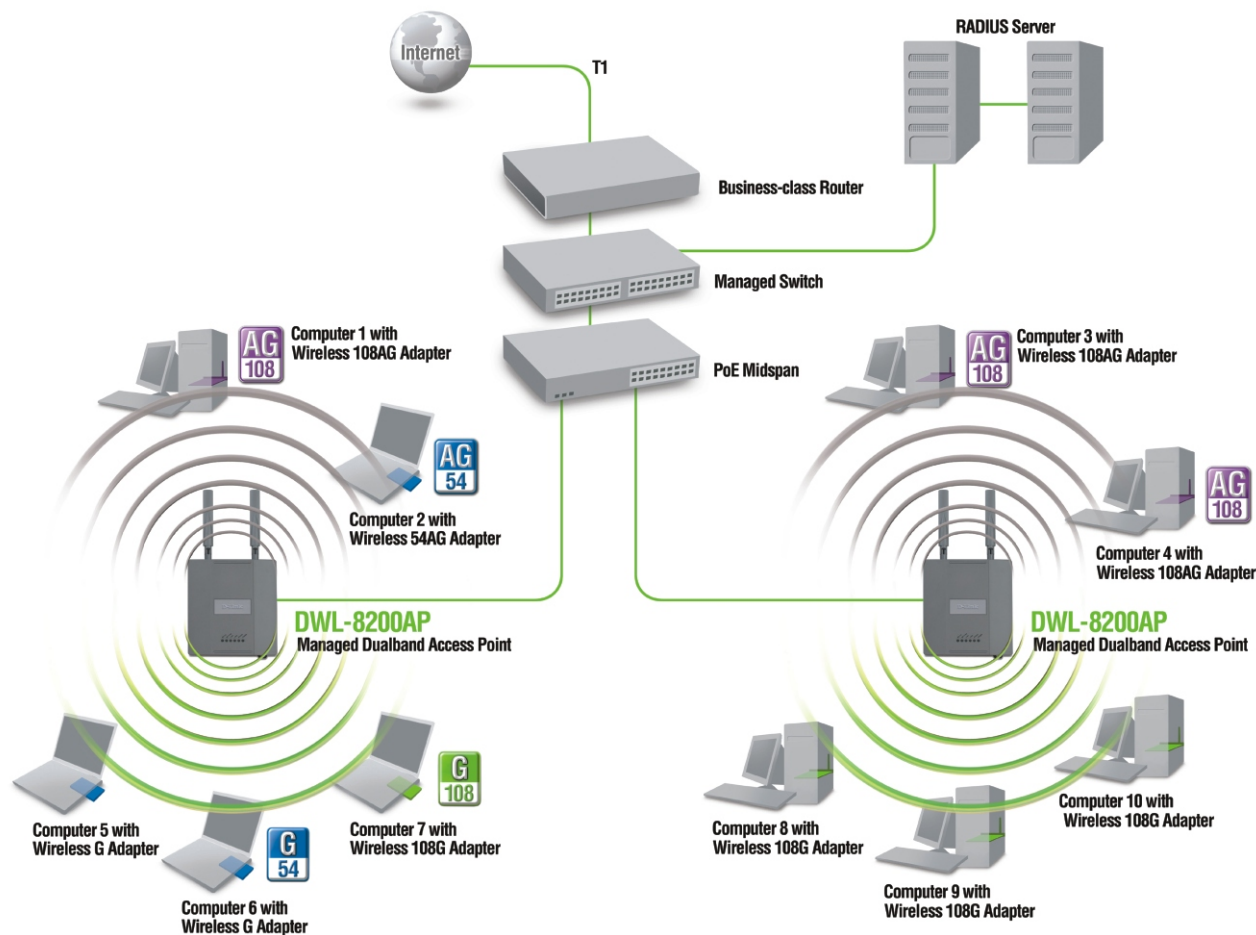
5% to 95% (non-condensing)

Certification

- FCC Class B
- CE
- C-Tick
- UL
- Wi-Fi



802.11a/g Indoor Wireless Access Point



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Rev. 02 (Nov. 2005)

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