D-Link
Building Networks for People

DWL-8200AP

AirPremier®
Managed Dualband Access Point

FEATURES

For Business-Class Environments
- Dualband Connectivity for Increased Network Capacity
- Concurrent Operation in both 802.11a and 802.11b/g at Full Bandwidth Speeds
- Two 5dBi High-Gain Dualband Antennas
- Ideal for Indoor Deployments
- Plenum-Rated Housing

Multiple Operation Modes
- Access Point
- WDS with AP
- WDS

High Performance Connectivity
- IEEE 802.11a/g Wireless
- Up to 54Mbps in Both Bands

Trusted Security Features
- 802.11i (WPA2)
- WPA – Personal
- WPA – Enterprise
- 802.1x User Authentication
- RADIUS Support
- AES
- MAC Address Filtering
- WEP

Convenient Installation
- Supports 802.3af Power over Ethernet
- Locking Brackets Included

Easy Management
- AP Manager
- Web Browser (HTTP)
- Telnet
- SNMP v3

D-Link, an industry pioneer in wireless networking, introduces a solution for businesses seeking to deploy powerful and reliable Wireless LANs. D-Link unveils its new *Air*Premier DWL-8200AP 802.11a/g Managed Dualband Access Point, designed specifically for business-class environments such as large or enterprise corporations, to provide secure and manageable dualband wireless LAN options for network administrators.

The DWL-8200AP allows network administrators to deploy a highly manageable and extremely robust dualband wireless network. The two detachable high-gain dualband antennas provide optimal wireless coverage in both the 802.11a and 11g bands. Enclosed in a plenum metal chassis, the DWL-8200AP adheres to strict fire codes and ensures complete safety. For advanced installations, this new high-speed 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.

The DWL-8200AP delivers concurrent wireless performance with maximum wireless signal rates of up to 54Mbps[1] in both bands simultaneously. With dualband connectivity, two 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.

Since wireless security remains a strong concern among businesses, 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) Encryption.

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 internal and guest 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 also includes a wireless client isolation mechanism, which limits direct client-to-client communication.
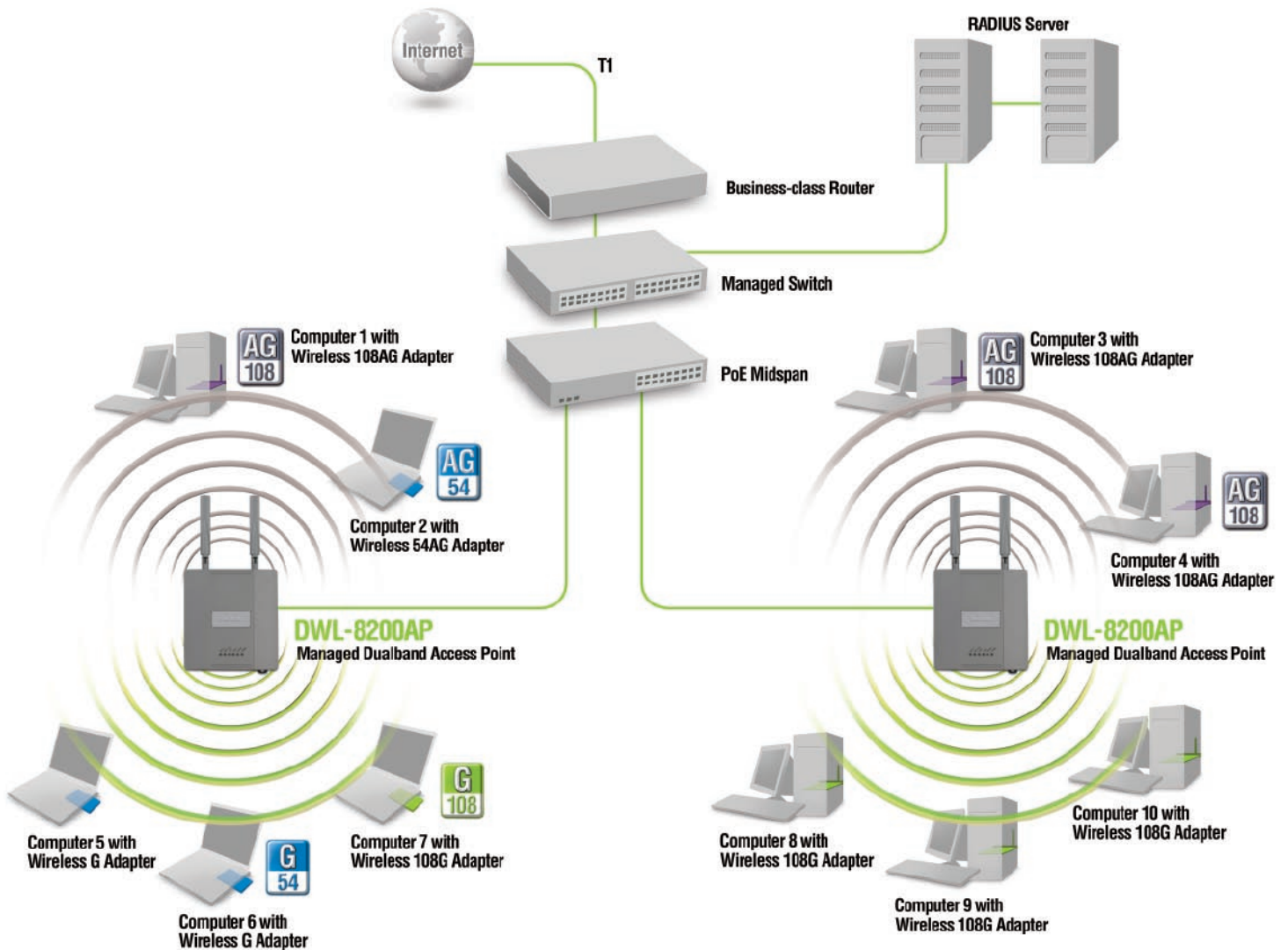
To maximize total return on investment, the DWL-8200AP can be configured to optimize network performance based on any one of its multiple operation modes. The DWL-8200AP supports Access Point, Wireless Distribution System (WDS) with Access Point, and WDS to provide network access to clients and/or to serve as the wireless network backbone. With WDS support, network administrators

Product Data Sheet

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 administrators can manage all the DWL-8200AP's settings via its web-based configuration utility or with Telnet. For advanced network management, administrators can use D-Link's AP Manager or D-View SNMP management module to configure and 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.

With integrated dualband functionality, PoE support, extensive manageability, versatile operation modes, and solid security enhancements, the new D-Link *Air*Premier DWL-8200AP Managed Dualband Access Point provides SMB environments with a business-class solution for deploying a wireless network in the workplace.

Air Premier®

Managed Dualband Access Point

Specifications

Standards
- IEEE 802.11a
- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.3
- IEEE 802.3af
- IEEE 802.3u
- IEEE 802.3x

Device Management
- Web-Based – Internet Explorer v6 or later; Netscape Navigator v7 or later; or other Java-enabled browsers.
- Telnet
- AP Manager
- SNMP v.3

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

Security
- WPA – Enterprise
- WPA – Personal
- WPA2 – Enterprise
- 64-, 128-, 152-bit WEP
- MAC Address Access Control List

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
DSSS:
- DBPSK @ 1Mbps
- DQPSK @ 2Mbps
- CCK @ 5.5 and 11Mbps

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

Receiver Sensitivity
For 802.11a:
- 6Mbps: -87dBm
- 12Mbps: -85dBm
- 36Mbps: -76dBm
- 9Mbps: -86dBm
- 18Mbps: -83dBm
- 48Mbps: -71dBm
- 11Mbps: -88dBm
- 24Mbps: -80dBm
- 54Mbps: -71dBm
For 802.11b:
- 1Mbps: -92dBm
- 5.5Mbps: -88dBm
- 2Mbps: -89dBm
- 11Mbps: -83dBm

For 802.11g:
- 1Mbps: -95dBm
- 9Mbps: -85dBm
- 24Mbps: -77dBm
- 2Mbps: -91dBm
- 11Mbps: -88dBm
- 36Mbps: -73dBm
- 5.5Mbps: -89dBm
- 12Mbps: -80dBm
- 48Mbps: -72dBm
- 6Mbps: -87dBm
- 18Mbps: -80dBm
- 54Mbps: -72dBm

Wireless Operating Range[3]
802.11g (Full Power with 5dBi gain diversity dipole antenna)
Indoors:
- 98ft (30m) @ 54Mbps
- 203ft (62m) @ 18Mbps
- 105ft (32m) @ 48Mbps
- 223ft (68m) @ 12Mbps
- 121ft (37m) @ 36Mbps
- 253ft (77m) @ 9Mbps
- 148ft (45m) @ 24Mbps
- 302ft (92m) @ 6Mbps
Outdoors:
- 328ft (100m) @ 54Mbps
- 1378ft (420m) @ 6Mbps
- 968ft (295m) @ 11Mbps

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

Operating Voltage
- 48VDC +/- 10% for PoE

Temperature
- Operating: 32°F to 104°F (0°C to 40°C)
- Storing: -4°F to 149°F (-20°C to 65°C)

Humidity
- Operating: 10%~90% (non-condensing)
- Storing: 5%~95% (non-condensing)

Certifications
- FCC
- Wi-Fi

Dimensions
- L = 10.93 inches (277.7mm)
- W = 6.10 inches (155mm)
- H = 1.77 inches (45mm)

Warranty
- 1-Year

[1] 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.

[2] Maximum wireless signal rate derived from 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.

[3] Environmental conditions may adversely affect wireless signal range.

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