

Wireless Dualband Access Point

Dualband 802.11a/g Wireless Switching Solution

- **Ideal SME Business Wireless Solution**
- **High Performance Connectivity**
- **Trusted Security Features**
- **No Sensitive Data Locally Stored**
- **Built-in Security Lock Interface**

FEATURES

Ideal SME Business Solution

- Dualband Connectivity for Increased Network Capacity
- Concurrent Operation in Both 802.11a & 802.11b/g at Full Bandwidth Speeds
- Low Profile ID, True Omni-Antenna Design
- Ideal for Indoor Deployments
- Plenum-Rated Housing

High Performance Connectivity

- IEEE 802.11a/g Wireless
- Up to 54Mbps in Both Bands
- Self-Tuning Features to Adjust & Optimize RF Settings
- Eliminates Coverage Deadspots Where No APs are Installed

Trusted Security Features

- AES
- TKIP
- WEP
- Rogue AP Detection

No Risk Involved

- Data Not Stored Locally
- Built-in Security Lock Interface

Convenient Installation

- Supports 802.3af Power over Ethernet
- Zero-Configuration Installation
- Supports a variety of External high-Gain Antenna

Easy Management

- Via D-Link DWS-1008 Wireless Switch

Flexible Dualband Wireless LAN Connectivity. The small form factor DWL-8220AP increases wireless LAN secure mobility, supports dualband WLAN connectivity, and provides client access to the functions of the AirPremier MobileLAN DWS-1008 Wireless Switch. Each DWL-8220AP continually tunes itself for optimal RF channel and transmit power to provide all mobile clients with the best wireless signal in both the 802.11a and 802.11g bands.

Sensitive Information Not Stored Locally. Individual DWL-8220APs have no local storing of any data so they can be safely installed in unsecured areas without fear of hacking or theft. The DWS-1008 Wireless Switch is the hardware that stores vital network and user information in plain site and is typically stored in a secure location. DWL-8220APs can link to DWS-1008s directly or through the existing wired network - even across Layer 3 boundaries - and receive Power over Ethernet (PoE) from directly connected DWS-1008s or third-party PoE injectors.

Self Configuration and Easy Installation. The DWS-1008 Wireless Switch automatically configures every connected DWL-8220AP so that no configuration is necessary during installation. If a DWL-8220AP needs to be replaced, the replacement DWL-8220AP automatically inherits the same configuration, making the replacement process analogous to changing a light bulb.

These plenum-rated DWL-8220APs intentionally resemble smoke detectors to minimize visibility. With no protruding antennas and no obvious hallmarks of an AP, DWL-8220APs are less likely to be tampered with. For added protection, all APs feature a built-in security lock interface.

Continuous Channel Scanning To Prevent Rogue APs. DWL-8220APs play a key role in rogue detection - they continuously scan both bands and their associated channels to root out rogues while simultaneously providing wireless connectivity to mobile clients. If a rogue is detected, the closest DWL-8220AP can launch RF Countermeasures by spoofing 802.11 control messages. This prevents clients from communicating, associating and authenticating with a rogue.

Increases User Productivity. For important wireless transmissions such as VoIP related applications, DWL-8220APs also deliver critical user-based services, such as prioritized delivery of voice traffic. Supporting multiple queues per user, DWL-8220APs always prioritize expedited traffic such as voice calls

AirPremier[™]



Technical Specifications

General

Standards

- IEEE 802.11
- IEEE 802.11a
- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.11h
- IEEE 802.11af
- IETF CAPWAP

Status Indicators

3 LEDs

Wired Network Ports

2 RJ-45 ports for 10/100 Ethernet and Power over Ethernet (PoE)

Security

- WPA (Wi-Fi Protected Access) TKIP, AES (802.11i)
- Encryption: 40-bit WEP, 128-bit WEP, TKIP, AES
- Multiple SSID/BSSID support

Others

- Transmit power control in 1 dB increments
- Power-save mode supported
- Supports up to 500 clients

802.11a Radio Specifications

Frequency Band

5.15 GHz to 5.85 GHz

Operating Channels

Based on the regulatory domain specified by the system administrator

Data Rates

54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps and 6 Mbps with automatic fallback

Modulation

Orthogonal frequency division multiplexing (OFDM)

Transmit Power

Based on the regulatory domain specified by the system administrator

802.11b Radio Specifications

Frequency Band

2.4 GHz to 2.484 GHz

Operating Channels

Based on the regulatory domain specified by the system administrator

Data Rates

11 Mbps, 5.5 Mbps, 2 Mbps and 1 Mbps with automatic fallback

Modulation

Direct-sequence spread-spectrum (DSSS)

Transmit Power

Based on the regulatory domain specified by the system administrator

802.11g Radio Specifications

Frequency Band

2.4 GHz to 2.484 GHz

Operating Channels

Based on the regulatory domain specified by the system administrator

Data Rates

54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps and 6Mbps with automatic fallback

Modulation

Orthogonal frequency division multiplexing (OFDM)

Transmit Power

Based on the regulatory domain specified by the system administrator

Physical & Environmental

Dimensions

- Diameter: 167.6 mm (6.6 inches)
- Height: 46.9 mm (1.85 inches)

Weight

354 grams (12.5 oz)

Operating Temperature

0° to 50°C (32°F to 122°F)

Storage Temperature

-20° to 70°C (-4° to 158°F)

Humidity

10% to 95% non-condensing

Safety and Electromagnetic Compliance

- ETS 300.328 (2.4 GHz) and 301.893 (5 GHz)
- FCC Part 15
- IC Part 15
- RSS-139-1 and RSS-210
- R&TTE Directive 1999/5/EC
- EN 60101-1-2 (1993)
- Plenum rated to meet safety and insurance requirements for building deployments

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