Wireless Unified 108G Access Point

High-Performance Connectivity

+ Up to 108Mbps (Turbo Mode) [1]
+ Dual Detachable Dipole Antennas Ensure Maximum Coverage
+ Self-Tuning Features to Adjust & Optimize RF Settings
+ Load Balancing Among Neighbor AP

Trusted Security Features

+ 64/128/152-bit WEP Data Encryption
+ WPA/WPA2 Personal
+ WPA/WPA2 Enterprise
+ 802.1x User Authentication
+ 802.1Q VLAN Tagging for Network Segmentation
+ MAC Address Filtering
+ Rogue AP Detection
+ 8 SSID Per Frequency Band

Convenient Installation

+ Solid Die Cast Metal Housing Design for Indoor Deployment
+ 802.3af Power over Ethernet to Facilitate Physical Setup
+ Zero-Configuration Installation
+ Supports Variety of External High-Gain Antennas
+ Locking Brackets Included
+ "Fit" (Stand-Alone) AP: Web-Based Management and CLI
+ "Thin" Managed AP: Via DWS-3024/3026 Unified Wired/Wireless Switch

Quality of Service

+ WMM (Wi-Fi Multimedia)
+ SVP (SpectraLink Voice Priority)

[1] Maximum wireless signal rate 54Mbps based on IEEE standard 802.11g specifications. Actual data throughput will vary. 108Mbps Turbo speed when operating with other D-Link 108G or 108AG products. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead can lower actual data throughput rate.

The DWL-3500AP Wireless Unified 108G Access Point is a high-performance wireless access device that provides up to 108Mbps transmission rates[1]. Versatile and powerful, this device can be flexibly deployed as a stand-alone "fit" wireless access point or as a "thin" managed access point (AP) manageable from a wireless switch. Businesses can start with an intelligent DWL-3500AP that provides many advanced wireless LAN functions, then migrate to a centrally managed system anytime later by integrating the same DWL-3500AP to a D-Link unified wired/wireless switch.

Intelligent "Fit" Access Point

The DWL-3500AP has everything on-board that enables network administrators to set up a secure wireless network and to connect to any Ethernet-compliant switch and router. Advanced wireless functions that the DWL-3500AP supports include: WEP data encryption, WPA/WPA2 security, client MAC address filtering, AP load balancing, QoS/WMM (Wireless Multimedia), and Rouge AP Detection. Security configuration settings can be locally stored in the DWL-3500AP itself. Wireless connections can easily be expanded by adding more DWL-3500AP or other 802.11g compliant APs to the site. Businesses without complicated network requirements can use the DWL-3500AP to get a wireless network set up and run without the need for any additional special hardware.

"Thin" AP Centrally Managed From Unified Wired/Wireless Switch

Alternatively, the DWL-3500AP can operate in conjunction with a D-Link DWS-3024 or DWS-3026 unified wired/wireless switch. In this mode, multiple DWL-3500AP access points can connect directly or indirectly to one of these switches to provide unparallel security and wireless mobility for wireless clients. Each DWL-3500AP access point will be continually tuned by theses switches to provide optimal RF channels and transmission power for all mobile clients, giving them the best wireless signals and uninterrupted wireless connectivity.

Adaptable Wireless

The architecture of most current wireless LAN controllers require wireless traffic to return to the controller for centralized processing, providing unnecessary traffic delay. The DWL-3500AP – when operating with either a DWS-3024 or DWS-3026 switch – offers administrators extra options. Depending on the wireless application, wireless traffic can either be tunneled back to the switch for better security control, or locally forwarded at the access point for optimal performance. This device offers administrators maximized flexibility with options to tunnel guest traffic to the switch for centralized security control, and forward VoIP traffic directly from the access point for optimal performance.

Up to 108Mbps Speed

With transmission speeds of up to 108Mbps (Turbo mode) on both frequency bands[1], the DWL-3500AP is an ideal solution for bandwidth intensive WLAN application.

In a typical working environment with multiple users accessing the network at the same time, the DWL-3500AP can operate at double times the throughput of regular 802.11g wireless LAN equipment.

Sensitive Information Not Stored Locally

When operating in conjunction with a DWS-3024 or DWS-3026 switch, individual DWL-3500AP access points do not store any user data locally. The DWS-3024/3026 switch is the hardware that keeps network and user information. The DWL-3500AP thus can be installed in an unsecured area, and users do not have to worry about hackers stealing data directly from the access points.

Self Configuration and Easy Installation

When operating in conjunction with a DWS-3024 or DWS-3026 switch, the switch automatically configures every connected "thin" DWL-3500AP access point, so no configuration is necessary during installation. If a DWL-3500AP needs to be replaced, the replacement DWL-3500AP automatically inherits the same configuration, making the replacement process as simple as a child's game.

PoE Facilitates Wireless Deployment

For maximum coverage, the DWL-3500AP can be placed at out-of-the-way locations such as on a ceiling or a high wall, where AC outlets are inaccessible and providing power to these locations is difficult and expensive. The DWL-3500AP can easily obtain power from a DWS-3024/3026 switch located as far as 100 meters away through the existing network cable, doing away with the need to install separate power wiring. With industry-standard 802.3af PoE support, this wireless access point does not even require a PoE injector.

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Continuous Channel Scanning To Detect Rogue AP

DWL-3500AP continuously scans both frequency bands and their associated channels to detect rogues while simultaneously providing wireless connectivity to mobile clients. If a rogue is detected, it reports the result to the DWS-3024/3026 wireless switch that manages it. From a management console, administrators can identify the rouge AP and take appropriate action.

Total Security & Quality of Service

The DWL-3500AP supports 64/128/152-bit WEP data encryption, WPA/WPA2 security and multiple SSID. Connected to the DWS-3024/3026 switch, these functions along with wireless user MAC Address Filtering and SSID Broadcast Disable can be used to set up security and limit outsiders' access to the internal network. The DWL-3500AP supports 802.1Q VLAN Tagging and WMM (Wi-Fi Multimedia) for important wireless transmissions such as VoIP and streaming media applications, delivering critical user-based services, such as prioritized delivery of voice traffic.

Technical Specifications

Standards	+ IEEE 802.11b, 802.11g Wireless LAN + IEEE 802.3, 802.3u Ethernet + IEEE 802.3x Flow Control + IEEE 802.3af Power over Ethernet (PoE) + IEEE 802.11d Regulatory Domain Selection + IEEE 802.11h
Data Transfer Rates [1]	For 802.11g: + 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
RF Channels	802.11b: + 11 Channels for United States + 13 Channels for EU + 13 Channels for Japan 802.11g: + 11 Channels for United States + 13 Channels for Europe Countries + 13 Channels for Japan
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 [2] (Typical at Each Throughput Rate)	For 802.11b: + 18dBm at 11, 5.5, 2 and 1Mbps For 802.11g: + 18dBm at 6, 9, 12 and 18Mbps + 16dBm at 24 and 36Mbps + 14dBm at 48 and 54Mbps
EIRP	Typical EIRP Using 5dBi Antennas: 63mW (18dBm)

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Receiver Sensitivity	For 802.11b: + -83dBm at 11Mbps + -89dBm at 2Mbps For 802.11g: + -87dBm at 6Mbps + -86dBm at 9Mbps + -85dBm at 12Mbps + -83dBm at 18Mbps + -80dBm at 24Mbps + -76dBm at 36Mbps + -71dBm at 48Mbps + -66dBm at 54Mbps
Antennas	Dual 5dBi Gain Detachable Dipole 2.4GHz Antennas With Reverse SMA Connectors
Ethernet Interface	10/100BASE-TX Port With 802.3af PoE
Configurable Operation Mode	Access Point Only
Security	+64/128/152-bit WEP Data Encryption +MAC Address Filtering +WPA/WPA2 EAP +WPA/WPA2 PSK +AES +802.11i-ready +802.1Q SSID Broadcast Enable/Disable +8 SSID +Isolated Security for Each SSID (Different Security Setting for Each SSID) +Station Isolation +IEEE 802.1X Supplicant
Supported Management Methods/Protocols	+Uses Protocols Supported in DWS-3024/3026 Unified Switches +HTTP/HTTPS + SSH + Syslog +Telnet
Diagnostic LEDs	+Power +LAN +WLAN
Power	+Operating Voltage: 48VDC +/- 10% for PoE +Power Supply: Through 48VDC, 0.4A External Power Adapter +Power Consumption: Max.7W without POE Max.8.5W with POE
Dimensions	277.7 mm (L) x 155 mm (W) x 45 mm (H) (10.93 x 6.10 x 1.77 inches)
Weight	603.28grams(1.33lbs)
Temperature	+Operating Temperature: 0˚ to 40˚ C (32˚ to 104˚ F) +Storage Temperature: -20˚ to 65˚ C (-4˚ to 149˚ F)
Humidity	+Operating Humidity: 10% to 90% (Non-Condensing) +Storage Humidity: 5% to 95% (Non-Condensing)
Certification	+FCC Class B + CE +C-Tick + VCCI +TELEC + UL +Wi-Fi + ICES-003 +En60601-1-2

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	Stand-Alone Mode	Managed Mode (Managed by DWS-3024 or DWS-3026 switch)
Centralized Management	-	V
Centralized Firmware Dispatch	-	V
Visualized AP Management Tool	-	V
Auto-Power Adjustment	-	V
Dynamic Auto-Channel Selection	-	V
L2 Fast Roaming	-	V
L3 Fast Roaming	-	V
Captive Portal	-	V
WEP/WPA/WPA2 Security	V	V
Rogue AP Detection	V	V
Station Isolation	V	V
MAC Address Filtering	V	V
AP Load Balancing Setup	V	V
Local Storage of Configuration	V	-
QoS/WMM	V	V

[1] Maximum wireless signal rate 54Mbps 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 can lower actual data throughput rate. 108Mbps Turbo mode operation in 5GHz frequency band is not allowed in EU countries.
[2] Maximum power setting will vary according to individual country regulations.

ACCESS POINT