AirPremier 802.11a/g Outdoor AP/Bridge

Robust Network Options

+ Simultaneous 802.11a/g
+ Dualband Wireless Connectivity
+ Operates Concurrently in Both 2.4GHz and 5GHz
+ Detachable Antennas

Outdoor-Friendly Housing

+ Ethernet Port Supports PoE
+ Die cast Watertight Housing
+ Built-in Heater with Temperature Sensor

Multiple Operation Modes

+ Access Point
+ WDS with AP
+ WDS/Bridge (No AP Broadcasting)

Maximum Security Features

+ WPA2-Enterprise/Personal
+ WPA-Enterprise/Personal
+ WPA-PSK/AES over WDS
+ 64/128/152-bit WEP Encryption
+ MAC Address Filtering
+ Rogue AP Detection

Advanced Options

+ Built-in DHCP Server
+ Load Balancing
+ Redundancy
+ Syslog

Easy Management

+ Web Browser
+ Telnet
+ SNMP v3
+ AP Manager II

Overview
The DWL-7700AP wireless AG outdoor access point is a tri-mode dualband wireless device conforming to IEEE 802.11 a/b/g standards. This device provides dual high Gain antennas covering a large operating distance and is ideal for Internet Service Providers to create hot spot networks to provide outdoor users with wireless Internet access. It can also be installed at manufacturing plants, industrial locations, convention halls, school campuses, airports, golf courses, marinas and other outdoor venues.

Extended Wireless Coverage
The AirPremier 802.11a/g Outdoor AP/Bridge is an ideal addition to businesses seeking to extend dualband wireless signal coverage over a variety of outdoor scenarios. Hot spot operators can use this rugged outdoor access point to support and deliver 802.11a and 802.11g wireless connectivity to their customers -- whether they are out on the patio or deck, by the swimming pool, in the terrace, or on the golf course. By offering concurrent dualband connectivity, the total aggregate bandwidth available on the network increases.

Another ideal application includes bridging together networks which are located in separate buildings. With the 802.11a/g Outdoor AP/Bridge' s dualband capability, network administrators can bridge the networks on the 802.11a band while simultaneously providing 802.11g coverage for public wireless access.

Durable Outdoor AP/Bridge
Enclosed in a die cast watertight housing and equipped with a built-in heater monitored by a temperature sensor, the 802.11a/g Outdoor AP/Bridge is designed to endure harsh outdoor conditions. For advanced installations, this Access Point has an integrated Power over Ethernet (PoE) port that allows you to install the device in areas where power outlets are not readily available. Both antennas are detachable and can be replaced with higher gain ones for an improved wireless signal.

Multiple Operation Modes
In addition to convenient installation, the AirPremier 802.11a/g Outdoor AP/Bridge can be configured to operate in any of three modes: Access Point (AP), Wireless Distribution System (WDS) with AP, or WDS (No AP Broadcasting). The AirPremier 802.11a/g Outdoor AP/Bridge includes advanced features such as load balancing that optimizes high network traffic volume and redundancy for fail-safe wireless connectivity.

Security
When used in any of its operating modes, the 802.11a/g Outdoor AP/Bridge provides maximum security by supporting WEP (64/128/152-bit), WPA, WPA2, MAC Address Filtering, Wireless LAN segmentation, and Disable SSID Broadcast ensuring complete network protection.

Network Management
Network administrators can manage all the 802.11a/g Outdoor AP/Bridge settings via its Web-based configuration utility or with Telnet. For advanced network management, administrators can use D-Link's AP Manager or the D-View SNMP v3 management module to configure multiple access points from a single location. With its dualband functionality, integrated PoE support, extensive manageability, versatile operation modes, and solid security enhancements all in one box, this device provides everything network administrators need to extend a robust wireless network to the great outdoors.

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Technical Specifications

Standards	+ IEEE 802.11a + IEEE 802.11b + IEEE 802.11g + IEEE 802.3 + IEEE 802.3u + IEEE 802.3x
Ethernet Interface	+ Single 10/100BASE-TX port with PoE
Data Rate	For 802.11a/g: + 54, 48, 36, 24, 18, 12, 9 and 6Mbps For 802.11b: + 11, 5.5, 2, and 1Mbps
Wireless Frequency Range[1]	+ 2.4GHz to 2.4835GHz + 5.15GHz to 5.35GHz + 5.47GHz to 5.85GHz
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 and 54Mbps DSSS: + DBPSK @ 1Mbps + DQPSK @ 2Mbps + CCK @ 5.5 and 11Mbps
Maximum Transmit Output Power[2]	+ For 802.11a: 16dBm (typical) + For 802.11b/g: 23dBm (typical)
Antennas	Dual Band Reverse-N Type dipole antennas (5dBi for 2.4 GHz, 7 dBi for 5GHz)
Wireless Operating Range[3]	802.11a/g (Full power with dualband dipole antennas) Indoors: + 30 m (98 ft) @ 54Mbps + 34 m (112 ft) @ 48Mbps + 39 m (128 ft) @ 36Mbps + 47 m (154 ft) @ 24Mbps + 56 m (184 ft) @ 18Mbps + 66 m (217 ft) @ 12Mbps + 79 m (259ft (79m) @ 9Mbps + 99 m (325 ft) @ 6Mbps Outdoors: + 112 m (367 ft) @ 54Mbps + 250 m (820 ft) @ 18Mbps + 500 m (1640 ft) @ 6Mbps
Security	+ 64/128/152-bit WEP data encryption + WPA-PSK, WPA2-PSK + WPA-EAP, WPA2-EAP + TKIP, AES support + MAC address filtering user access + WLAN STA partitioning + Network segmentation through multiple SSID for each frequency band + SSID broadcast disable function + 802.1Q VLAN Tagging + Rogue AP Detection
Operation Modes	+ Access Point + WDS With AP + WDS/Bridge (No AP Broadcasting)

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Performance/Security Enhancement	+ AP grouping for load balance + Redundancy backup
Quality of Service	WMM (Wi-Fi Multimedia) certified

Device Management	+ Web Browser Interface:
	  - HTTP
	  - Secure HTTP (HTTPS)
	+ AP Manager II
	+ SNMP support:
	  - D-View module
	  - Private MIB
	+ Command Line Interface:
	  - Telnet
	  - Secure (SSH) Telnet

Operating Voltage	48VDC +/- 10% for PoE
Current Consumption	+ Max. 8.5W with PoE (heater OFF) + Max. 28.5W without PoE (heater ON)[4]
Diagnostic LEDs	+ Power + LAN + 802.11a + 802.11b/g
Accessories Provided for Outdoor Installation	+ 2 surge arrestors + PoE base unit + RF jumper cable (1 meter long) + Ethernet cable (30 meters long) + Set of grounding wires + 2 mounting kits
Temperature	+ Operating: -40°C to 60°C (-40°F to 140°F) + Storing: -40°C to 65°C (-40°F to 149°F)
Humidity	+ Operating: 10% to 90% (Non-Condensing) + Storing: 5% to 95% (Non-Condensing)
Dimensions	155 mm (W) x 279.77 mm (D) x 62 mm (H) (6.10 x 11.01 x 2.44 inches)
Weight	1.82 kg (4.31 lbs)
Certifications	+ FCC Class B + CE + IC + C-Tick + Wi-Fi + NCC + IP68

[1] Wireless frequency range varies according to individual country regulations.
[2] Maximum output power setting varies according to individual country.
[3] Environmental factors may adversely affect operation range.
[4] Power consumption may exceed 802.3af PoE standard when heater is in operation; connect this device through the included PoE Base Unit.

[*] Maximum wireless signal rate derived from IEEE standard 802.11a/g 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. Environmental factors will adversely affect wireless signal range.

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