

Robust Network Options

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

Outdoor-Friendly Housing

- + Supports Integrated 802.3af PoE
- + Diecast 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
- + WPA2-PSK/AES over WDS
- + 64/128/152-bit WEP Encryption
- + MAC Address Filtering

Advanced Options

- + Load Balancing
- + SysLog

Easy Management

- + Web Browser
- + Telnet
- + SNMPv3
- + AP Manager II

AirPremier 802.11a/g Outdoor AP/Bridge

Overview

D-Link, the industry pioneer in wireless networking, introduces a reliable high-performance wireless outdoor solution—the D-Link AirPremier 802.11a/g Outdoor AP/Bridge (DWL-7700AP). The dualband AP/Bridge is capable of delivering maximum wireless signal rates of up to 54Mbps¹ in both 802.11a and 802.11g wireless bands in any outdoor environment – simultaneously.

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. Hotspot 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, on 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 diecast 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 802.3af Power over Ethernet (PoE) port that allows you to install the device in areas where power outlets are not readily available³. 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 of the 802.11a/g Outdoor AP/Bridge settings via its Web-based configuration utility or with Telnet. For advanced network management, administrators can use the D-Link AP Manager II or the D-View SNMPv3 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, the D-Link AirPremier 802.11a/g Outdoor AP/Bridge (DWL-7700AP) provides everything network administrators need to extend a robust wireless network to the great outdoors.



AirPremier 802.11a/g Outdoor AP/Bridge

Technical Specifications

Standards	+ IEEE 802.11a + IEEE 802.3	+ IEEE 802.11b + IEEE 802.3u	+ IEEE 802.11g + IEEE 802.3x
Network Management	+ Web Browser Interface + AP Manager II + SNMP Support - D-View Module - Private MIB + Command Line Interface - Telnet		
Data Rate ¹	For 802.11a/g: + 54, 48, 36, 24, 18, 12, 9 and 6Mbps For 802.11b: + 11, 5.5, 2, and 1Mbps		
Security	+ WPA™-Personal + WPA2™-Personal + 64/128/152-bit WEP + MAC Address Access Control List + WPA-Enterprise + WPA2-Enterprise + SSID Broadcast Disable		
Wireless Frequency Range	+ 2.4GHz to 2.4835GHz	+ 5.725GHz to 5.850GHz	
Wireless Operating Range ¹	802.11a/g (Full Power with 5dBi Gain Diversity Dualband Dipole Antenna) Indoors: + 98ft (30m) @ 54Mbps + 112ft (34m) @ 48Mbps + 128ft (39m) @ 36Mbps + 154ft (47m) @ 24Mbps + 184ft (56m) @ 18Mbps + 217ft (66m) @ 12Mbps + 259ft (79m) @ 9Mbps + 325ft (99m) @ 6Mbps Outdoors: + 367ft (112m) @ 54Mbps + 820ft (250m) @ 18Mbps + 1640ft (500m) @ 6Mbps		
Operating Voltage	+ 48VDC +/- 10% for PoE		
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		



AirPremier 802.11a/g Outdoor AP/Bridge

Transmit Output Power	<p>For 802.11a:</p> <p>+100mW (20dBm) + 50mW (17dBm)</p> <p>+30mW (15dBm) + 20mW (13dBm)</p> <p>+10mW (10dBm) + 5mW (7dBm)</p> <p>+1mW (0dBm)</p> <p>For 802.11b:</p> <p>+200mW (23dBm) + 63mW (18dBm)</p> <p>+30mW (15dBm) + 20mW (13dBm)</p> <p>+10mW (10dBm) + 5mW (7dBm)</p> <p>+1mW (0dBm)</p> <p>For 802.11g:</p> <p>+200mW (23dBm) + 63mW (18dBm)</p> <p>+30mW (15dBm) + 20mW (13dBm)</p> <p>+10mW (10dBm) + 5mW (7dBm)</p> <p>+1mW (0dBm)</p>
Receiver Sensitivity ¹	<p>For 802.11a:</p> <p>+6Mbps: -85dBm + 9Mbps: -84dBm</p> <p>+12Mbps: -82dBm + 18Mbps: -80dBm</p> <p>+24Mbps: -77dBm + 36Mbps: -73dBm</p> <p>+48Mbps: -69dBm + 54Mbps: -68dBm</p> <p>For 802.11b:</p> <p>+1Mbps: -94dBm + 2Mbps: -91dBm</p> <p>+5.5Mbps: -89dBm + 11Mbps: -85dBm</p> <p>For 802.11g:</p> <p>+1Mbps: -95dBm + 2Mbps: -91dBm</p> <p>+5.5Mbps: -89dBm + 6Mbps: -90dBm</p> <p>+9Mbps: -84dBm + 11Mbps: -88dBm</p> <p>+12Mbps: -82dBm + 18Mbps: -80dBm</p> <p>+24Mbps: -77dBm + 36Mbps: -73dBm</p> <p>+48Mbps: -72dBm + 54Mbps: -72dBm</p>
Current Consumption	<p>+ Max. 8.5W with PoE (without Heater)</p> <p>+ Max. 28.5W with PoE (with Heater)³</p>
LEDs	<p>+ Power + LAN</p> <p>+ 802.11a + 802.11b/g</p>
Temperature	<p>+ Operating: -40°F to 140°F (-40°C to 60°C)</p> <p>+ Storing: -40°F to 149°F (-40°C to 65°C)</p>
Humidity	<p>+ Operating: 10% ~ 90% (Non-Condensing)</p> <p>+ Storing: 5% ~ 95% (Non-Condensing)</p>
Certifications	<p>+ FCC Part 15 + CSA International</p>
Dimensions (W x D x H)	<p>6.10" x 10.93" x 1.77" (155mm x 279.77mm x 45mm)</p>
Weight (lbs)	<p>4.31lbs</p>
Warranty	<p>1-Year Limited²</p>

¹ Maximum wireless signal rate derived from IEEE Standard 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. Environmental factors will adversely affect wireless signal range.

² 1-Year Limited Warranty available only in the U.S.A. and Canada.

³ Maximum 28.5W power consumption may only be achieved using the D-Link power injector included with this product.

All references to speed and range are for comparison purposes only. Product specifications, size and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.