

AirPremier Wireless G Outdoor AP/Bridge

For Business-Class Environments

- + Up to 54Mbps Wireless Speed in 2.4GHz Frequency Band²
- + Dual 5dBi High-Gain Antennas
- + AP Grouping for Bandwidth Enhancement

Multiple Operation Modes

- + Access Point
- + WDS With AP
- + WDS

Advanced Security

- + 64/128/152-Bit WEP Data Encryption
- + WPA/WPA2 Personal
- + WPA/WPA2 Enterprise
- + WPA-PSK/AES Over WDS
- + MAC Address Filtering
- + Multiple SSID Network Segmentation
- + 802.1Q VLAN Tagging Support
- + Load Balancing
- + Redundancy
- + System Log

Outdoor Installation

- + Power over Ethernet Support¹
- + Diecast Watertight Housing
- + Built-in Heater With Sensor
- + Power Surge Arrestor Included
- + Mounting Kit for Wall and Wall Mounting

Versatile Management

- + Windows-Based AP Manager Utility
- + Web-Based Management
- + Telnet
- + MIB for SNMP Management

¹ Power consumption may exceed 802.3af PoE standard when heater is in operation; connect this device through the included PoE Base Unit.

² Maximum wireless signal rate based on IEEE 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 may lower actual data throughput rate.

The DWL-2700AP wireless G outdoor access point is an outdoor device with dual high Gain antennas that covers a large operating distance. This device 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.

Powerful & Durable Outdoor Solution.

The DWL-2700AP is designed to handle a wide variety of outdoor environments. It has a die-cast watertight housing, a built-in heater and a temperature sensor. Supporting 802.3af Power over Ethernet (PoE), it can be placed at outdoor locations where power outlets are not easily accessible. ¹ Besides functioning as an AP, this device can be configured to operate as a Wireless Distribution System (WDS) to act as a bridge linking together networks in different buildings.

Advanced Network Security.

The DWL-2700AP supports 64/128/152-bit WEP data encryption and WPA/WPA2 security functions. In addition, it provides MAC Address Filtering to control user access, and the Disable SSID Broadcast function to limit outsiders' access to the internal network.

Network Flexibility and Efficiency.

The DWL-2700AP supports up to 8 SSID, allowing the administrators to logically divide the access point into several virtual access points all within a single hardware platform. Rather than having two separate networks with two access points, administrators can deploy one single AP to support more than one application, such as public Internet access and internal network control to increase flexibility and keep costs down. The DWL-2700AP supports 802.1Q VLAN Tagging, operating with multiple SSID to segment traffic to enhance performance and security.

The DWL-2700AP provides WLAN STA partitioning, a function useful for deployments like at hot spots. With station-to-station partitioning enabled, security is enhanced, since wireless users cannot peek at each other, and the possibility for data thievery is reduced. Administrators can, however, disable this function, so wireless users at an office can share hard disks and information, and peripherals such as wireless printers. The DWL-2700AP also supports AP grouping, allowing several access points to balance wireless network traffic and wireless clients among the AP with the same SSID and different non-overlapping frequency channels.

Network Management.

Network administrators can manage DWL-2700AP's settings via web-based configuration or Telnet. Administrators can use a Windows-based utility called AP Manager to automatically discover all wireless devices installed on the network and do bulk configuration of multiple AP to save time and effort.





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Technical Specifications

Standards	<ul style="list-style-type: none"> + IEEE 802.11b/g WLAN + IEEE 802.3/802.3u Ethernet + IEEE 802.3x Flow Control 																	
Ethernet Interface	<ul style="list-style-type: none"> + 10/100BASE-TX Ethernet port 																	
Radio and Modulation Type	<p>For 802.11b:</p> <ul style="list-style-type: none"> DSSS: <ul style="list-style-type: none"> + DBPSK @ 1Mbps + DQPSK @ 2Mbps + CCK @ 5.5 and 11Mbps <p>For 802.11g:</p> <ul style="list-style-type: none"> OFDM: <ul style="list-style-type: none"> + BPSK @ 6 and 9Mbps + QPSK @ 12 and 18Mbps + 16QAM @ 24 and 36Mbps + 64QAM @ 48 and 54Mbps DSSS: <ul style="list-style-type: none"> + DBPSK @ 1Mbps + DQPSK @ 2Mbps + CCK @ 5.5 and 11Mbps 																	
Operating Frequency	<ul style="list-style-type: none"> + 2400 to 2483.5MHz 																	
Channel Numbers	<ul style="list-style-type: none"> + 11 Channels (FCC) + 13 Channels (ETSI) 																	
Data Rates	<ul style="list-style-type: none"> + 802.11g: 54, 48, 36, 24, 18, 12, 9 and 6Mbps + 802.11b: 11, 5.5, 2, and 1Mbps 																	
Transmit Output Power ³	<p>For 802.11b:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">+ 100mW (20dBm)</td> <td style="width: 50%;">+ 50mW (17dBm)</td> </tr> <tr> <td>+ 30mW (15dBm)</td> <td>+ 20mW (13dBm)</td> </tr> <tr> <td>+ 10mW (10dBm)</td> <td></td> </tr> <tr> <td>+ 5mW (7dBm)</td> <td>+ 1mW (0dBm)</td> </tr> </table> <p>For 802.11g:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">+ 200mW (23dBm)</td> <td style="width: 50%;">+ 63mW (18dBm)</td> </tr> <tr> <td>+ 30mW (15dBm)</td> <td>+ 20mW (13dBm)</td> </tr> <tr> <td>+ 10mW (10dBm)</td> <td>+ 5mW (7dBm)</td> </tr> <tr> <td>+ 1mW (0dBm)</td> <td></td> </tr> </table>		+ 100mW (20dBm)	+ 50mW (17dBm)	+ 30mW (15dBm)	+ 20mW (13dBm)	+ 10mW (10dBm)		+ 5mW (7dBm)	+ 1mW (0dBm)	+ 200mW (23dBm)	+ 63mW (18dBm)	+ 30mW (15dBm)	+ 20mW (13dBm)	+ 10mW (10dBm)	+ 5mW (7dBm)	+ 1mW (0dBm)	
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Receive Sensitivity	<p>For 802.11b:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">+ 1Mbps: -92dBm</td> <td style="width: 50%;">+ 2Mbps: -89dBm</td> </tr> <tr> <td>+ 5.5Mbps: -88dBm</td> <td>+ 11Mbps: -83dBm</td> </tr> </table> <p>For 802.11g:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">+ 1Mbps: -92dBm</td> <td style="width: 50%;">+ 2Mbps: -89dBm</td> </tr> <tr> <td>+ 5.5Mbps: -88dBm</td> <td>+ 6Mbps: -87dBm</td> </tr> <tr> <td>+ 9Mbps: -86dBm</td> <td>+ 11Mbps: -85dBm</td> </tr> <tr> <td>+ 12Mbps: -88dBm</td> <td>+ 18Mbps: -83dBm</td> </tr> <tr> <td>+ 24Mbps: -80dBm</td> <td>+ 36Mbps: -76dBm</td> </tr> <tr> <td>+ 48Mbps: -71dBm</td> <td>+ 54Mbps: -66dBm</td> </tr> </table>		+ 1Mbps: -92dBm	+ 2Mbps: -89dBm	+ 5.5Mbps: -88dBm	+ 11Mbps: -83dBm	+ 1Mbps: -92dBm	+ 2Mbps: -89dBm	+ 5.5Mbps: -88dBm	+ 6Mbps: -87dBm	+ 9Mbps: -86dBm	+ 11Mbps: -85dBm	+ 12Mbps: -88dBm	+ 18Mbps: -83dBm	+ 24Mbps: -80dBm	+ 36Mbps: -76dBm	+ 48Mbps: -71dBm	+ 54Mbps: -66dBm
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Antennas	Dual 5dBi Gain Reverse-N Type dipole antennas																	



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Wireless Operating Range ⁴	802.11g (Full Power with 5dBi gain diversity dipole antennas): Indoor: +30 m (98 ft) @ 54Mbps + 34 m (112 ft) @ 48Mbps +56 m (184 ft) @ 18Mbps + 66 m (217 ft) @ 12Mbps +79 m (259 ft) @ 9Mbps + 99 m (325 ft) @ 6Mbps Outdoor: +112 m (367 ft) @ 54Mbps + 250 m (820 ft) @ 18Mbps +500 m (1,640 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 +Multiple SSID for network segmentation +SSID broadcast disable function +802.1Q VLAN Tagging
Configurable Modes	+ Access Point +WDS With AP +WDS
Performance Enhancement	+ AP grouping for load balance
Device Management	Web Browser Interface: +HTTP +Secure HTTP (HTTPS) AP Manager SNMP support: +D-View module +Private MIB Command Line Interface: +Telnet +Secure (SSH) Telnet
Diagnostic LEDs	+ Power LED + 10/100Mbps +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
Operating Voltage	48VDC +/- 10% for PoE
Power Consumption	+8.5 watts (max.) with PoE (with heater OFF) +28.5 watts (max.) with PoE (with heater ON) ¹
Dimensions	+277.7 (L) x 155 (W) x 45 (H) mm (10.93 x 6.10 x 1.77 inches)
Weight	+1.82 kg (4.1 lbs)
Operating Temperature	+ -40° to 60° C (-40° to 140° F)
Storage Temperature	+40° to 65° C (-40° to 149° F)
Operating Humidity	+5% to 95% non-condensing, all-weather enclosure



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Regulation Certification

- + FCC Class B
- + CE
- + IP 68
- + C-Tick

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² Maximum wireless signal rate based on IEEE 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 may lower actual data throughput rate.

³ Maximum power setting will vary according to individual country regulations.

⁴ Environmental factors may adversely affect operation range.



D-Link Worldwide Offices

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Canada	TEL: 1-905-8295033	FAX: 1-905-8295223	Portugal	TEL: 351-21-8688493		Egypt	TEL: 202-291-9035	FAX: 202-291-9051
Europe (U. K.)	TEL: 44-20-8955-9000	FAX: 44-20-8955-9001	Czech Republic	TEL: 420-(603)-276-589		Israel	TEL: 972-9-9715700	FAX: 972-9-9715601
Germany	TEL: 49-6196-77990	FAX: 49-6196-7799300	Switzerland	TEL: 41-(0)-1-832-11-00	FAX: 41(0)-1-832-11-01	LatinAmerica	TEL: 56-2-232-3185	FAX: 56-2-232-0923
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Sweden	TEL: 46-(0)8564-61900	FAX: 46-(0)8564-61901	Singapore	TEL: 65-6774-6233	FAX: 65-6774-6322	China	TEL: 86-10-58635800	FAX: 86-10-58635799
Denmark	TEL: 45-43-969040	FAX: 45-43-424347	Australia	TEL: 61-2-8899-1800	FAX: 61-2-8899-1868	Taiwan	TEL: 886-2-6600-0123	FAX: 886-2-6600-8168
Norway	TEL: 47-99-300-100	FAX: 47-22-309580	India	TEL: 91-022-26526696	FAX: 91-022-26528914	Headquarters	TEL: 886-2-6600-0123	FAX: 886-2-6600-9898
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