

### For Business-Class

#### Environments

- + Water/dustproof IP65 Standard<sup>6</sup>
- + Embedded 9dBi Panel Antenna
- + Connector for Optional High Gain Antenna

#### Multiple Operation Modes

- + Access Point
- + WDS with AP
- + WDS
- + Wireless Client

#### High Performance

##### Connectivity

- + IEEE 802.11g Wireless Standard
- + Up to 54Mbps Wireless Speed
- + D-Link 108G Technology with up to 108Mbps Wireless Speeds \*

#### Advanced Security Features

- + Multiple SSID and 802.1Q VLAN Support
- + WPA/WPA2-Enterprise/Personal
- + WPA-PSK/AES over WDS
- + 64/128/152-bit WEP Encryption
- + MAC Address Filtering
- + Rogue AP Detection

#### Convenient Outdoor Installation

- + 802.3af Power over Ethernet (PoE) Support
- + Locking Brackets Included

#### Easy Management

- + Web Browser (HTTP, HTTPS)
- + Telnet/SSH
- + SNMPv1/v2c/v3
- + AP Manager II Software Included

\* 108Mbps Turbo mode only available when operating with other D-Link 108G wireless devices

## Wireless 108G Exterior Access Point



The DAP-3220 Wireless 108G Exterior Access Point is the ideal solution for users that need network and Wi-Fi Internet access at all times. It is designed to be fully functional in enclosed outdoor environments such as cafes, patios and other roofed areas. The DAP-3220 allows 802.11b/g devices to connect with speeds of up to 108Mbps when using 108G Turbo Mode\*. The DAP-3220 has a watertight housing, a built-in heater and a temperature sensor. It supports 802.3af Power over Ethernet (PoE), and can be placed at outdoor locations where power outlets are not easily accessible. Besides functioning as an AP, this device can also be configured to operate as a Wireless Distribution System (WDS) to act as a bridge for linking together networks in different buildings.

#### Advanced Network Security

The DAP-3220 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 DAP-3220 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 separate networks with several 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 DAP-3220 supports 802.1Q VLAN Tagging, operating with multiple SSID to segment traffic to enhance performance and security. The DAP-3220 provides WLAN STA partitioning, a function useful for deployments such as hot spots. With station-to-station partitioning enabled, security is enhanced, since wireless users cannot peek at each other, and the possibility for data theft 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 DAP-3220 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 DAP-3220 settings via web-based configuration or Telnet. Administrators can use a Windows-based utility called AP Manager to automatically locate 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"> <li>+ IEEE 802.11b/g WLAN</li> <li>+ IEEE 802.3/802.3u Ethernet</li> <li>+ IEEE 802.3x Flow Control</li> <li>+ IEEE 802.3af PoE</li> </ul>
Ethernet Interface	+ 10/100BASE-TX Ethernet port
Radio and Modulation Type	<p>For 802.11b:</p> <p>DSSS:</p> <ul style="list-style-type: none"> <li>+ DBPSK @ 1Mbps</li> <li>+ DQPSK @ 2Mbps</li> <li>+ CCK @ 5.5 and 11Mbps</li> </ul> <p>For 802.11g:</p> <p>OFDM:</p> <ul style="list-style-type: none"> <li>+ BPSK @ 6 and 9Mbps</li> <li>+ QPSK @ 12 and 18Mbps</li> <li>+ 16QAM @ 24 and 36Mbps</li> <li>+ 64QAM @ 48 and 54Mbps</li> </ul> <p>DSSS:</p> <ul style="list-style-type: none"> <li>+ DBPSK @ 1Mbps</li> <li>+ DQPSK @ 2Mbps</li> <li>+ CCK @ 5.5 and 11Mbps</li> </ul>
Operating Frequency	<p>For 802.11b:</p> <ul style="list-style-type: none"> <li>+ 2400 to 2497MHz</li> </ul> <p>For 802.11g:</p> <ul style="list-style-type: none"> <li>+ 2400 to 2483.5MHz</li> </ul>
Channel Numbers	<ul style="list-style-type: none"> <li>+ 11 Channels (FCC)</li> <li>+ 13 Channels (ETSI)</li> </ul>
Data Rates <sup>1</sup>	<ul style="list-style-type: none"> <li>+ 802.11g: 108,54, 48, 36, 24, 18, 12, 9 and 6Mbps</li> <li>+ 802.11b: 11, 5.5, 2, and 1Mbps</li> </ul>
Maximum Transmit Output Power <sup>2</sup>	17dBm (typical)
Antennas	<p>Embedded 9dBi patch antenna</p> <p>RN-P N type connector for optional antenna<sup>5</sup></p>
Receiver Sensitivity	<ul style="list-style-type: none"> <li>+ For 802.11b, at 8% PER: <ul style="list-style-type: none"> <li>11Mbps: -83dBm</li> <li>2Mbps: -89dBm</li> </ul> </li> <li>+ For 802.11g, at 10% PER: <ul style="list-style-type: none"> <li>6Mbps: -87dBm</li> <li>9Mbps: -86dBm</li> <li>12Mbps: -85dBm</li> <li>18Mbps: -83dBm</li> <li>24Mbps: -80dBm</li> <li>36Mbps: -76dBm</li> <li>48Mbps: -71dBm</li> <li>54Mbps: -66dBm</li> </ul> </li> </ul>



### Wireless 108G Exterior Access Point

Security	<ul style="list-style-type: none"> <li>+ 64/128/152-bit WEP data encryption</li> <li>+ WPA-PSK, WPA2-PSK</li> <li>+ WPA-EAP, WPA2-EAP</li> <li>+ TKIP, AES support</li> <li>+ MAC address filtering user access</li> <li>+ WLAN STA partitioning</li> <li>+ Multiple SSID for network segmentation</li> <li>+ SSID broadcast disable function</li> <li>+ 802.1Q VLAN Tagging</li> <li>+ Rogue AP detection</li> </ul>
Quality of Service	<ul style="list-style-type: none"> <li>+ Wireless Multimedia (WMM)</li> </ul>
Configurable Operation Modes	<ul style="list-style-type: none"> <li>+ Access Point</li> <li>+ WDS with AP</li> <li>+ WDS</li> <li>+ Wireless Client</li> </ul>
Performance Enhancement	<ul style="list-style-type: none"> <li>+ AP grouping for load balance</li> </ul>
Device Management	<ul style="list-style-type: none"> <li>+ Web Browser Interface:                             <ul style="list-style-type: none"> <li>- HTTP</li> <li>- Secure HTTP (HTTPS)</li> </ul> </li> <li>+ AP Manager II</li> <li>+ SNMP support:                             <ul style="list-style-type: none"> <li>- D-View module</li> <li>- Private MIB</li> </ul> </li> <li>+ Command Line Interface:                             <ul style="list-style-type: none"> <li>- Telnet</li> <li>- SSH</li> </ul> </li> </ul>
Diagnostic LEDs	<ul style="list-style-type: none"> <li>+ Power</li> <li>+ LAN</li> <li>+ WLAN</li> </ul>
Accessories Provided for Outdoor Installation	<ul style="list-style-type: none"> <li>+ PoE base unit</li> <li>+ Ethernet cable (4 meters long)</li> <li>+ Set of grounding wires</li> <li>+ Wall mount</li> <li>+ Pole mount (option)<sup>3</sup></li> </ul>



### Wireless 108G Exterior Access Point

Operating Voltage	48VDC +/- 10% for PoE
Power Consumption	+ 13.5 watts (max.) with PoE (with heater ON) <sup>4</sup>
Dimensions	+ 190 (L) x 160 (W) x 55 (H) mm
Weight	+ 649g (Without mounting kit)
Operating Temperature	-20° to +60° C
Storage Temperature	-20° to +65° C
Operating Humidity	10% to 90% non-condensing, all-weather enclosure
Regulation Certification	+ FCC Class B + CE + IP 65 + C-Tick + VCCI + TELEC + NCC + Wi-Fi + IC + CSA International

<sup>1</sup> 54Mbps maximum wireless signal rate derived from IEEE standard 802.11b and 802.11g specifications. Actual data throughput will vary. 108Mbps when operating with other D-Link 108G wireless devices. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead lower actual data throughput rate. Environmental conditions will adversely affect wireless signal range.

<sup>2</sup> Maximum power setting will vary according to individual country regulations.

<sup>3</sup> This device can be mounted on a pole using an optional mounting kit (part number B15900-0033000).

<sup>4</sup> Power consumption may exceed 802.3af PoE standard when heater is in operation; connect this device through the included PoE Base Unit.

<sup>5</sup> Embedded patch antenna will be disabled when optional antenna is connected.

<sup>6</sup> IP65 standard means the device is protected from dust and low pressure jets of water from all directions - limited ingress permitted. It is recommended to place this device under a roof.



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