AirPremier N

For Business-Class Environments

- Water/dustproof IP65 Standard[1]
- Embedded Dual Band Antennas
- Connectors for Optional High Gain Antennas

Multiple Operation Modes

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

High Performance Connectivity

- Dual Band Technology (2.4 GHz and 5 GHz)
- IEEE 802.11n Wireless Standard
- Up to 300 Mbps Wireless Speed[2]

Advanced Security Features

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

Convenient Outdoor Installation

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

Easy Management

- Web Browser (HTTP, HTTPS)
- Telnet/SSH
- Included AP Manager II Software
- D-View 6.0

AirPremier N Dual Band Exterior Access Point

The DAP-3520 AirPremier N Dual Band Exterior Access Point is the ideal solution for outdoor users that need network and Wi-Fi Internet access at all times. Designed specifically for outdoor environments, the DAP-3520 is compatible with a large range of wireless devices due to its support of the 802.11a/b/g/n standards.

High Speed Dual Band Technology
The DAP-3520 can facilitate wireless speeds of up to 300 Mbps using the 802.11n standard[2]. The DAP-3520 also enables you to switch between 2.4 GHz and 5 GHz bands, expanding the possibilities of your network while also maintaining backwards compatibility.

Powerful & Durable Outdoor Solution
The DAP-3520 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 in outdoor locations where power outlets are not easily accessible. Besides functioning as an AP, this device can 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-3520 supports 64/128-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.

Additionally, the DAP-3520 supports Network Access Protection (NAP), which is a feature of Microsoft® Windows Server 2008. NAP allows network administrators to define multiple levels of network access based on the needs of individual clients. If a client is identified outside of their access area, the client will be automatically brought back to their permitted network access level.

Network Flexibility and Efficiency
The DAP-3520 supports up to 4 SSIDs, 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-3520 supports 802.1Q VLAN Tagging, operating with multiple SSIDs to segment traffic to enhance performance and security. The DAP-3520 provides WLAN 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 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 DAP-3520 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-3520 settings via web-based configuration and Telnet. Administrators can also use a Windows-based utility called AP Manager II to automatically locate all wireless devices installed on the network and do bulk configuration of multiple APs to save time and effort. Additionally, D-Link's D-View 6.0 can also be used.

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Technical Specifications

Interface	**Ethernet**	10/100/1000 BASE-TX Ethernet port with 802.3af PoE and auto-MDI/MDIX support
	Wireless Antennas	Embedded Dual Band antennas (8dBi for 2.4GHz, 10dBi for 5GHz) Two RN-P N type connectors for optional antennas[3]
Networking	**Standards**	IEEE 802.11a/b/g WLAN IEEE 802.11n WLAN IEEE 802.3/802.3u Ethernet IEEE 802.3x Flow Control (for Ethernet)
	Configurable Operation Modes	Access Point WDS with AP WDS Wireless Client
	Performance Enhancement	AP grouping for load balance
Wireless	**Operating Frequency**	For 802.11n: 2400 to 2483.5 MHz (2.4 GHz band), 5150 to 5825 MHz (5 GHz band) For 802.11g: 2400 to 2483.5 MHz For 802.11b: 2400 to 2497 MHz For 802.11a: 5150 to 5350 MHz, 5470 to 5725 MHz, 5725 to 5850 MHz (for Europe)
	Channel Numbers	11 Channels (FCC) 13 Channels (ETSI)
	Maximum Transmit Output Power[4]	ETSI: 9 dBm at 2.4 GHz, 17 dBm at 5 GHz FCC: 18 dBm at 2.4 GHz, 17 dBm at 5 GHz
Physical & Environment	**Diagnostic LEDs**	Power LAN WLAN
	Operating Voltage	48 V DC +/-10% for PoE
	Dimensions (L x W x H)	190 x 160 x 55 mm (7.48 x 6.30 x 2.17 inches)
	Weight (Without mounting kit)	774 g (1.7 pounds)
	Operating Temperature	-20 to 60 ˚C (-4 to 140 ˚F)
	Storage Temperature	-20 to 65 ˚C (-4 to 149 ˚F)
	Operating Humidity	10% to 90% non-condensing, all-weather enclosure
	Certifications	FCC Class B CE IP 65 C-Tick CSA International Wi-Fi® a/b/g/n
Physical & Environment	**Accessories Provided for Outdoor Installation**	PoE base unit Ethernet cable (4 meters long) Set of grounding wires Wall mount Pole mount (optional)[5]

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Software Features

Management

- Web Browser Interface:
  - HTTP
- -Secure HTTP (HTTPS)
- AP Manager II
- D-View 6.0
- SNMP support:
  - Private MIB
- Command Line Interface:
  - Telnet
  - SSH

Security

- 64/128-bit WEP data encryption
- WPA-PSK, WPA2-PSK
- WPA-EAP, WPA2-EAP
- TKIP, AES support
- MAC address filtering user access
- WLAN partitioning
- Multiple SSID for network segmentation
- SSID broadcast disable function
- 802.1Q VLAN Tagging
- Rogue AP detection
- Network Access Protection

QoS (Quality of Service)

- Wireless Multimedia (WMM)

[1] 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.
[2] 300 Mbps is the maximum theoretical wireless signal rate when using multiple MIMO antennas. 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 conditions will adversely affect wireless signal range.
[3] Embedded patch antennas will be disabled when optional antennas are connected.
[4] Maximum power setting will vary according to individual country regulations.
[5] This device can be mounted on a pole using an optional mounting kit (part number B15900-0033000).