D-Link®
Building Networks for People

Product Highlights

- **High speed Dual Band technology**
  Wireless N speeds of up to 300 Mbps[2] with either 2.4 GHz or 5 GHz band

- **Extend your wireless network access outdoor**
  Water/dustproof IP65[1] rated enclosure

- **Advance network security**
  Supports latest wireless encryption and Microsoft® Network Access Protection support

- **Flexible and scalable wireless network solution**
  Seamlessly integrates and grows with your network

DAP-3520

Wireless N Dual Band Exterior Access Point

Key Features

For Business-Class Environments
- Water/dustproof IP65[1] standard
- Embedded dual band antennas
- Connectors for optional high gain antennas

Multiple Operation Modes
- Access point
- Wireless Distribution System (WDS)
- WDS with AP
- Wireless client

High Performance Connectivity
- Dual Band technology (2.4 GHz and 5 GHz)
- IEEE 802.11n wireless standard
- Up to 300 Mbps[2] wireless speed

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
- Microsoft® 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

The DAP-3520 Wireless N Dual Band Exterior Access Point is the ideal solution for businesses and premises looking to provide outdoor wireless Internet and network access. Designed specifically for outdoor environments, the DAP-3520 has an IP65[1] rated water/dustproof enclosure.

High speed Dual Band technology

Connect wirelessly with speeds of up to 300 Mbps[2] using the Wireless N (802.11n standard). The DAP-3520 provides the option to switch between 2.4 GHz and 5 GHz bands, giving more flexibility when setting up and optimising your wireless network. It is also fully backwards compatible with legacy 802.11a/b/g devices that work with either 2.4 GHz or 5 GHz bands.

Powerful & durable outdoor solution

Designed to handle a wide variety of outdoor environments, the DAP-3520 has a die-cast watertight housing with built-in heater and temperature sensor. Supporting 802.3af Power over Ethernet (PoE), it can be deployed in 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 joining networks in different buildings wirelessly.

Advanced network security

The DAP-3520 supports 64/128-bit WEP as well as WPA/WPA2 data encryption. MAC address filtering and ability to hide SSID, controls user access and further ensures no unwanted connection to your wireless network. Additionally, the DAP-3520 supports Microsoft® Network Access Protection (NAP), a feature of Microsoft® Windows Server 2008 and later. 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, allowing operations with multiple SSIDs to segment traffic to enhance performance and security.

The WLAN partitioning function can be useful for deployments such as hot spots. With this enabled, users connected to the same access point cannot see each other, further reducing risks of data theft. However, the administrator has the flexibility to disable this function, to allow users to share data or peripherals such as wireless printers in office environments.

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. This provides both scalability and optimisation of the wireless network.

Network Management

Administrators can also use D-Link AP Manager II to easily and automatically locate all D-Link wireless devices installed on the network and simultaneously configure multiple APs to save time and effort. They can also manage DAP-3520 settings via web-based configuration and Telnet.

If the worst should happen to your network you need the very best support and fast. Downtime costs your business money. D-Link Assist maximises your uptime by solving technical problems quickly and effectively. Our highly trained technicians are on standby around the clock, ensuring that award-winning support is only a phone call away.

With a choice of three affordable service offerings covering all D-Link business products, you can select the package that suits you best:

D-Link Assist Gold - for comprehensive 24-hour support
D-Link Assist Gold is perfect for mission-critical environments where maximum uptime is a high priority. It guarantees four hour around-the-clock response. Cover applies 24/7 for every day of the year including holidays.

D-Link Assist Silver - for prompt same-day assistance
D-Link Assist Silver is designed for 'high availability' businesses that require rapid response within regular working hours. It provides a four hour response service Monday to Friday from 8am to 5pm, excluding holidays.

D-Link Assist Bronze - for guaranteed response on the next business day
D-Link Assist Bronze is a highly cost-effective support solution for less critical environments. Response is guaranteed within eight business hours Monday to Friday from 8am to 5pm, excluding holidays.

D-Link Assist can be purchased together with any D-Link business product. So whether you're buying switching, wireless, storage, security or IP Surveillance equipment from D-Link, your peace of mind is guaranteed. D-Link Assist also offers installation and configuration services to get your new hardware working quickly and correctly.

Technical Specifications

General

Device interfaces	• 10/100/1000 BASE-TX Ethernet port with 802.3af PoE and auto-MDI/MDIX support • Embedded Dual Band antennas (8 dBi for 2.4 GHz, 10 dBi for 5 GHz) • Two RN-P N type connectors for optional antennas[3]
Standards	• IEEE 802.11a/b/g WLAN • IEEE 802.3/802.3u Ethernet • IEEE 802.11n WLAN • IEEE 802.3x Flow Control (for Ethernet)
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
Certifications	• FCC Class B • CE • IP65 • C-Tick • CSA International • Wi-Fi® a/b/g/n

Functionality

Configurable operation modes	• Access Point • WDS with AP • WDS • Wireless Client
Performance enhancement	• AP grouping for load balance
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)
Management	• Web Browser Interface: – HTTP • Secure HTTP (HTTPS) • AP Manager II • D-View 6.0 • SNMP support: - Private MIB • Command Line Interface: - • Telnet - SSH

Physical

Diagnostic LEDs	• Power • LAN • WLAN
Operating voltage	• External power adapter • 100-240 VAC/50-60 Hz • 48 V DC +/-10% for PoE
Maximum power consumption	• 12.95 Watts
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)	• 774g
Temperature	• Operating: -20 to 60°C (-4 to 140°F) • Storage: -20 to 65°C (-4 to 149°F)
Operating humidity	• 10% to 90% non-condensing, all-weather enclosure
Accessories	• PoE base unit • Ethernet cable (4 metres long) • Set of grounding wires • Wall mount

[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

For more information: www.dlink.com

Updated 24/12/2012