D-Link[®]





Wireless N Exterior Access Point

DAP-3315

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Package Contents



DAP-3315 Wireless N Exterior Access Point



Power Over Ethernet Injector



Power cord



Wall Mount



Quick Installation Guide

Note: Using a PoE Injector with a different voltage rating or PoE injector than the one included with the DAP-3315 will cause damage and void the warranty for this product.

System Requirements

Network Requirements	 An Ethernet-based Network IEEE 802.11n/g wireless clients (AP Mode) IEEE 802.11n/g wireless network (AP Mode)
Web-based Configuration Utility Requirements	 Computer with the following: Windows®, Macintosh, or Linux-based operating system An installed Ethernet adapter Browser Requirements: Internet Explorer® 11 and higher Mozilla Firefox 28 and higher Google™ Chrome 33 and higher Apple Safari 7 and higher Windows® Users: Make sure you have the latest version of Java installed. Visit www.java.com to download the latest version.

Introduction

D-Link, an industry leader in networking, introduces the new D-Link DAP-3315 Wireless N Exterior Access Point. With the ability to transfer files with a maximum wireless signal rate of up to 300 Mbps¹, the DAP-3315 gives you ability to add high-speed wireless network access to places outside of your internal networking environment. Additional operation modes such as WDS and WISP also make the DAP-3315 perfect for those needing to span longer distances wirelessly.

The DAP-3315 is Wi-Fi IEEE 802.11n compliant, meaning that it can connect and interoperate with other 802.11n compatible wireless client devices. The DAP-3315 is also backwards compatible with 802.11b/g devices. With its Setup Wizard, the DAP-3315 ensures that you will be up and running a wireless network in just a matter of minutes.

The DAP-3315 features Wi-Fi Protected Access (WPA-PSK/WPA2-PSK) to provide an enhanced level of security for wireless data communications. The DAP-3315 also includes additional security features to keep your wireless connection safe from unauthorized access.

¹ 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.

Ultimate Performance

The D-Link Wireless N Exterior Access Point (DAP-3315) is an 802.11n compliant device that delivers real world performance of up to 300 Mbps², much faster than an 802.11g wireless connection (also faster than a 100 Mbps wired Ethernet connection). Create a secure wireless network to share photos, files, music, video, printers, and network storage outside of your normal internal networking environment. Built to withstand harsh environments, the DAP-3315 also excels in connecting separate networks that cannot be joined physically using traditional medium. The built-in 10dBi sector antenna is designed to deliver high powered performance, ensuring that wireless coverage will cover even hard to reach locations.

Multiple Operation Modes

The DAP-3315 features seven different operation modes, allowing it to adapt to any situation. As a standard wireless access point (AP) the DAP-3315 can connect to a wide range of devices that are 802.11 n/g/b compliant. In wireless distribution system (WDS) mode it can expand current wireless coverage without the need for a wired backbone link. As a wireless client it can connect to an existing AP, and expand the network physically with the two built-in 10/100 Ethernet ports. Repeater mode will extend current wireless coverage eliminating dead spots and weak signals.

Also built into the DAP-3315 is WISP mode, which expands functionality for long range communications by including the ability to function as a client or repeater. In WISP Repeater mode, the AP wirelessly connects to a WISP (Wireless Internet Service Provider) AP and repeats the signal received from the WISP. In this mode, the AP also acts as a router for both wireless and wired clients on your LAN. In WISP Client Router mode, the AP wirelessly connects to a WISP (Wireless Internet Service Provider) AP and acts as a router for wired clients on the LAN, to allow the client to still access the Internet even though it is using wireless technology.

Total Security

The DAP-3315 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 unauthorized access to the internal network. Network administrators have multiple options for managing the DAP-3315, including Web (HTTP) or Secured Web (HTTPS). For advanced network management, administrators can use SNMP v1, v2c, v3 to configure and manage access points.

² Maximum wireless signal rate derived from IEEE Standard 802.11g and 802.11n 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 conditions will adversely affect wireless signal range.

Features

- Faster Wireless Networking The DAP-3315 provides an up to 300 Mbps* wireless connection with other 802.11n wireless clients. This capability allows users to participate in real-time activities online, such as video streaming, online gaming, and real-time audio.
- **Compatible with IEEE802.11g Devices** The DAP-3315 is still fully compatible with the 802.11g standards, so it can connect with existing 802.11g adapters.
- Built-in High Gain Sector Antenna The DAP-3315 comes equipped with a high powered 12 dBi antenna that helps to provide better wireless coverage and increases signal strength.
- Convenient Installation The DAP-3315 features a wall/pole mount in the rear for easy setup on poles or walls.
- **Rugged Construction** The DAP-3315 is built to withstand harsh environments, and is compliant with the Waterproof IPx5 Standard.³

³ IPx5 standard means the device is protected from low pressure jets of water from all directions - limited ingress permitted. It is recommended to place this device under a roof, shelter or in weather-proof box when in severe weather environment.

Hardware Overview Connections



1	LAN Port	Connects to 10/100 Ethernet devices such as computers, switches, and hubs.		
		Power is supplied through the LAN cable connected in this port via the Power over Ethernet		
2 LAN (PoE) Port Injector. Please see "Installation" on page 11 for more details on how to com				
		DAP-3315 and connect to other networking devices.		
2	Reset Button	Hold the reset button for at least 5 seconds to reset the device back to the factory default		
5	Reset Button	settings. All the LEDs will turn on for 2 second and then begin the reboot process.		
Л	Grounding Wire	Connects to a grounding wire.		
	Connector	Connects to a grounding wire.		

Note: The DAP-3315 uses a proprietary PoE injector which is needed to function correctly. Only use the included PoE injector as other power sources such as 3rd party PoE injectors or PoE switches or hubs may damage the DAP-3315 or cause it to operate unreliably, and will also void the warranty.

Hardware Overview LEDs



1		Shows different signal strength levels.
	Strength LED	(Only supported in Wireless Client, Repeater, WDS, and WISP mode)
2	Power LED	A solid green light indicates the device is powered and ready.
3		A solid green light indicates the LAN port connection is OK. A blinking green light indicates
		that the unit is transmitting data over that port.
4	LAN LED (PoE)	A solid green light indicates the LAN port (PoE) connection is OK. A blinking green light
	LAN LED (POE)	indicates that the unit is transmitting data over that port.

Installation

First, you will need to configure the DAP-3315 with a computer connected directly to the unit. The following pages explains how to set up the DAP-3315 in order to be properly configured and then tested to work as desired.

The DAP-3315 acts as a central connection point for any device (client) that has a 802.11n or backward-compatible 802.11g wireless network interface and is within range of the AP. Clients must use the same SSID (wireless network name) and channel as the AP in order to connect. If wireless security is enabled on the AP, the client will need to enter a password to connect to the AP. In Access Point mode, multiple clients can connect to the AP at the same time.

STEP 1: Connect an Ethernet Cable to the LAN (PoE) Port on the AP.







A. Connect the Ethernet cable that is connected to the AP from STEP 1 to the POE port on the PoE Injector.

B. Connect an Ethernet cable from a router, switch, or PC to the LAN port on the PoE Injector.

C. Attach the power cord to connect PoE injector, and plug it into an electrical outlet.

¹This product uses a proprietary PoE design and can only be used with the included PoE injector.

Wireless Installation Considerations

The D-Link Wireless N Exterior Access Point lets you access your network using a wireless connection from virtually anywhere within the operating range of your wireless network. Keep in mind, however, that the number, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through, may limit the range. Typical ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or business. The key to maximizing wireless range is to follow these basic guidelines:

- 1. Keep the number of walls and ceilings between the D-Link access point and other network devices to a minimum. Each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters). Position your devices so that the number of walls or ceilings is minimized.
- 2. Be aware of the direct line between network devices. A wall that is 1.5 feet thick (.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle it looks over 42 feet (14 meters) thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
- 3. Building materials make a difference. A solid metal door or aluminum studs may have a negative effect on range. Try to position access points, wireless access points, and computers so that the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (fish tanks), mirrors, file cabinets, brick, and concrete will degrade your wireless signal.
- 4. Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate RF noise.
- 5. If you are using 2.4GHz cordless phones or X-10 (wireless products such as ceiling fans, lights, and home security systems), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4 Hz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone is not in use.

Configuration

This section will show you how to configure your new D-Link Wireless N Exterior Access Point using the web-based configuration utility.

Web-based Configuration Utility

If you wish to change the default settings or optimise the performance of the DAP-3315, you may use the web-based configuration utility.

To access the configuration utility, open a web browser such as Internet Explorer and enter **http://192.168.0.50**

Select **admin** and then enter your password. Leave the password blank by default.

If you get a Page Cannot be Displayed error, please refer to "**Troubleshooting**" on page 61 for assistance.



Vindows Security		Ē	23
The server 192.168.0.50 at DAP-331	0 requires a username ar	nd passwo	ord.
Warning: This server is requesting sent in an insecure manner (basic a connection).			be
admin Password ▼ Remember my	y credentials		
	ОК	Car	ncel

Operating Modes

The DAP-3315 features seven different operating modes, allowing it to adapt to any situation. Select the operating mode by clicking on the radio button, that correspondes to the desired mode then click on **Change Mode**. After confirming that the operating mode will be changed, the AP will reboot and will be ready for use after 40 seconds.

- Access Point: In access point (AP) mode, 802.11n/g/b compliant devices can connect to the wireless network.
- **WDS with AP:** Wireless distribution system (WDS) with AP mode expands current wireless coverage and also allows devices to connect to the network.
 - **WDS:** Wireless distribution system (WDS) mode expands current wireless coverage from other Wireless AP devices that are in WDS mode.
- Wireless Client: As a wireless client the DAP-3315 can connect to an existing AP and expand the network physically with the two built-in 10/100 Ethernet ports.
 - **Repeater:** Repeater mode will extend current wireless coverage, alleviating dead spots and weak signals.
 - WISP Client WISP Client Router mode allows for the sharing of Router: a WISP connection using the two built-in 10/100 Ethernet ports.
- WISP Repeater: WISP Repeater mode will extend an existing WISP's network coverage area.

D-Link	<							DAP-331	15
Operation Mode Main	ntenance	Status	Configuration	System	Logout	Help			
DAP-3315			ation Mode	_		_	_	_	
Wireless UDS LAN Advanced Settings Log		Mode			Access Point WDS with AF WDS				
		0			Wireless Clie Repeater WISP Client I WISP Repea	Router			
								Sav	re

Basic Settings

The image to the right shows a configuration menu tree for when the AP is in Access Point mode. If you need help determining which operating mode the AP is currently in, please see "Operating Modes" on page 15.

Note: The DAP-3315 has different configuration options depending on the current operating mode. Please be aware that some screens and menus will not be present unless the AP is operating in an applicable operating mode.

D-Link		DAP-3315
Operation Mode Maintenance	Status Configuration System Logout Help	
BAP-3315	Operation Mode	
Basic Settings Wireless	Mode	
	Access Point	
LAN Advanced Settings	WDS with AP	
E Cog	WDS	
	Wireless Client	
	Repeater	
	WISP Client Router	
	WISP Repeater	
		Save

Wireless Settings

This page will allow you to configure the wireless connection for the DAP-3315. Please be aware that some menu options will change depending on which type of security setting is used.

- Network Name Enter a name for your wireless network (SSID). For (SSID): security purposes, it is highly recommended to change from the default network name.
- **SSID Visibility:** Select **Disabled** if you do not want the SSID of your wireless network to be broadcasted by the DAP-3315. Your wireless clients will have to know the SSID of your DAP-3315 in order to connect to it.
- Auto ChannelThe Auto Channel Scan setting can be selected toSelection:allow the DAP-3315 to choose the channel with
the least amount of interference.
 - **Channel:** Indicates the channel setting for the DAP-3315. The Channel can be changed to fit the channel setting for an existing wireless network or to customize the wireless network. If you enable Auto Channel Scan, this option will be grayed out.
- **Channel Width:** Auto 20/40 Select if you are using both 802.11n and non-802.11n wireless devices. 20MHz Select if you are not using any 802.11n wireless clients.
 - Extension Used only when Channel width is set to 40 MHz.Channel: Select the desired channel bonding for control.

D-Lin	ık							DAP-3315
Operation Mode	Maintenance	Status	Configuration	System	Logout	Help		
DAP-3315 Basic Settings DAP-3015 Basic Settings DAT-300 DAT-3000	ngs	Netword SSID V Auto Cr Channe Channe Authent Key 1 Key T	hannel Selection		dlink Enable V Enabled V Auto 20/40 M Open System Open System I V (0-9,a-z,A-Z,		64 Bits ▼ -={\[];**" ,./<>?)	Save

Open System/Shared Key Authentication

If you selected Open System as your Authentication, you will see these settings:

- **Encryption:** Use the radio button to disable or enable encryption. (Encryption option only available with Open System setting)
 - Key Type: Select either HEX or ASCII as the key type.
 - Key Size: Select 64 Bits or 128 Bits for your key size.
- Key Index: Select which key you want to be the active key.
- **Network Key:** Input up to four keys for encryption. You will select one of these keys in the Key Index drop-down menu.
- **Confirm Key:** Confirm the network key.

Click **Save** to commit your changes.

Note: Hexadecimal (HEX) digits consist of the numbers 0-9 and the letters A-F. ASCII (American Standard Code for Information Interchange) is a code that represents English letters using numbers ranging from 0-127.

Configuration	System	Logout	Help		
eless Settings					
	_	_	_	_	
Visibility Channel Selection anel Width entication y Settings ryption Type Index (1~4)		Shared Key Disable ASCII	Enable Key Size	64 Bits ▼]](],``" ,./<>?)	Save
	reless Settings vork Name (SSID)) Visibility Channel Selection nnel width entication y Settings ryption (Type v Index (1~4) work Key	vork Name (SSID)) Visibility Channel Selection nnel nnel Width entication y Settings vryption v Type v Index (1~4)	vork Name (SSID) dlink D Visibility Enable Channel Selection Enabled nnel 6 nnel Width Auto 20/40 MH entication Shared Key y Settings rryption Disable r Type ASCII y Index (1~4) 1 work Key	vork Name (SSID) dlink D Visibility Enable V Channel Selection Enable V nnel G V entication Shared Key V y Settings rryption Disable © Enable r Type ASCII V Key Size v Index (1~4) 1 V	vork Name (SSID) dlink D Visibility Enable Channel Selection Enable Innel 6 entication Shared Key y Settings ryption Disable Enable y Type ASCII Key Size 64 Bits 1 1 1 1 1 1 1 1 1 1

WPA/WPA2-Personal Authentication

If you selected WPA/WPA2-Personal Authentication as your Authentication, you will see these settings:

- WPA Mode: When WPA-Personal is selected for Authentication type, you must also select a WPA mode from the drop-down menu: AUTO (WPA or WPA2), WPA2 Only, or WPA Only. WPA and WPA2 use different algorithms. AUTO (WPA or WPA2) allows you to use both WPA and WPA2.
- Cipher Type: When you select WPA-Personal, you must also select AUTO, AES, or TKIP from the drop-down menu.
 - Group Key Select the interval during which the group Update: key will be valid. The default value of **1800** is recommended. Select **Manual** to enter your key (Passphrase).

PassphraseWhen you select WPA-Personal, please enter
a Passphrase in the corresponding fields.Passphrase:

	DAP-3315
Status Configuration System Logout Help	
Wireless Settings	
Network Name (SSID) dlink SSID Visibility Enable ✓ Auto Channel Selection Enable ✓ Channel 6 ✓ Channel Width Auto 20/40 MHz ✓ Authentication WPA-Personal ✓ PassPhrase Settings WPA Mode Cipher Type Auto ✓ Group Key Update Interval 3 Manual Periodical Key Change Time Interval 1 (1~168)hour(s) PassPhrase PassPhrase notice: 8~63 in ASCII or 64 in Hex. (0-9,a-z,A-Z,~!@#\$%^&*()_+*-={]]]::"], /	
	Wireless Settings Network Name (SSID) SSID Visibility Enable Auto Channel Selection Channel 6 Channel Width Auto 20/40 MHz Authentication WPA-Personal PassPhrase Settings WPA Mode Auto © Group Key Update Interval © Manual © Periodical Key Change Time Interval Interval PassPhrase Type PassPhrase Into Class (8-63Characters) v PassPhrase

WPA/WPA2-Enterprise Authentication

- WPA Mode: When WPA-Enterprise is selected, you must also select a WPA mode from the drop-down menu: AUTO (WPA or WPA2), WPA2 Only, or WPA Only. WPA and WPA2 use different algorithms. AUTO (WPA or WPA2) allows you to use both WPA and WPA2.
- **Cipher Type:** When WPA-Enterprise is selected, you must also select a cipher type from the drop-down menu: Auto, AES, or TKIP.
 - **Group Key** Select the interval during which the group key Update will be valid. The recommended value is 1800. Interval: A lower interval may reduce data transfer rates.
- RADIUS Server: Enter the IP address of your RADIUS server.

RADIUS Port: Enter the RADIUS port.

RADIUS Secret: Enter the RADIUS secret.

D-Link [®]		DAP-3315
Operation Mode Maintenar	nce Status Configuration System Logout Help	
DAP-3315 DAP-3315 DAP-3315 DAP-3 Basic Settings DWireless DAN	Wireless Settings Network Name (SSID) dlink	^
⊕-⊖ Log	SSID Visibility Enable Auto Channel Selection Enabled	
	Channel 6 Channel Width Auto 20/40 MHz Authentication WPA-Enterprise	
	Authentication WPA-Enterprise RADIUS Server Settings WPA Mode AUTO (WPA or WPA2)	
	Cipher Type Auto V Group Key Update Interval 3600 (Sec) RADIUS Server (2.4GHz)	
	Key Update Interval 3600 second(s)	
	RADIUS Server Mode	
	RADIUS Server External Internal	
	Primary RADIUS Server Setting	
	RADIUS Server Radius Port 1812	
	RADIUS Secret	
	(0-9,a-z,A-Z,~!@#\$%^&*()_+`-={}[];`:" ,./<>?)	
	Backup RADIUS Server Setting (Optional)	
	RADIUS Server Radius Port 1812	~

802.1x Authentication

RADIUS Server: Enter the IP address of your RADIUS server.

RADIUS Port: Enter the RADIUS port.

RADIUS Secret: Enter the RADIUS secret.

D-Lit	lk							DAP-3315
Operation Mode	Maintenance	Status	Configuration	System	Logout	Help		
DAP-3315 Basic Settings LAN Advanced Setti De Log	ngs	Network SSID V Auto Ch Channe Autheni RADIU RADIU RADIU RADIU RADIU RADIU RADIU RADIU RADIU RADIU RADIU	nannel Selection el el Width	ettings • Setting	External (Co-9,a-z,A-Z, ptional)	econd(s) Internal ~1@#\$%^&	Radius Port 1812 *()_+'-=()[,'.''],./<>?) Radius Port 1812 	
						-		

WDS

Wireless Band: 2.4GHz(DAP-3315 is 2.4GHz Access Point

- WDS (Wireless This feature will be enabled automatically Distribution when select WDS or WDS with AP mode in operation page.For other operation mode it is disabled.
- Network Name Input the name for WDS connection. Access (SSID): Points use the same name can establish WDS connection together.
- AP MAC Address: Input the uplink AP address to establish WDS link. For point to point WDS connection, input MAC address of another access point here.
 - Site Survey: Click on the Scan button to search for available wireless networks, then click on the available network that you want to connect with. For example, if you want establish WDS link with other AP by using SSID name "abcd", you can type "abcd" on SSID name and click scan to find if there has AP with SSID name as "abcd".
- Authentication: Suggest to select WPA-Personal and WPA2 Only on WPA mode if you want data encryption in WDS connection.

Please click Save button to save the configuration.

D-Lin	ık								DAP-33	15
Operation Mode	Maintenance	Status	Configuration	System	Logout	Help				
DAP-3315		WDS	Settings				_			
Basic Settings Wireless WDS LAN Advanced Settings Log	Networ	Vireless Distributio k Name (SSID) C Address	n System) BSSID		Enable		SSID	Scan	^	
		Authen Key Se Encry	ttings		Open System	C Enable				
		Key T	ype		ASCII 🗸	Key Size	64 Bits 💙			
			dex (1~4) rk Key		1 V (0-9 a-7 A-7	~I@#\$%^&*()	+`-={}[]-t-"[_/<>?)			~

Wireless LAN Settings(Repeater mode)

This page will allow you to change the wireless LAN settings of the AP. This function is used when there are multiple access points that are connected to increase wireless coverage over an area.

Repeater	Set this to the SSID of the wireless network that
Network Name:	the DAP-3315 will be connecting to.

- Local Wi-Fi This option can either be set to rebroadcast Network Name: the wireless network that the DAP-3315 is connected to, or it can broadcast a different SSID.
- Authentication: The wireless LAN security can be Open System, WPA-Personal, WPA-Enterprise, or 802.1x.

For a detailed description of the Open System parameters, please go to page 18.

For a detailed description of the WPA-Personal parameters, please go to page 19.

For a detailed description of the WPA-Enterprise parameters, please go to page 20.

For a detailed description of the 802.1x parameters, please go to page 21.

D-Link		DAP-3315
Operation Mode Maintenance	Status Configuration System Logout	Help
DAP-3315	Wireless LAN Settings	
Basic Settings Wireless LAN Advanced Settings	Create a n Coreate a n Coreat	Repeater Network Name New Wi-Fi Network Name Denable Key Size 64 Bits V 1@#\$%^&*()_+`-={]];"\:" ,J<>?) Save

LAN Settings

This section will allow you to change the local network settings of the DAP-3315. After making your changes, click the **Save** button.

- Get IP From: Select an option to choose how the AP will obtain an IP address to use on the local network. If this is set to **Static**, you will need to manually enter the necessary information.
- IP Address: Enter the IP address of the router. The default IP address is 192.168.0.50. If you change the IP address, once you click Save, you will need to enter the new IP address in your browser to get back into the configuration utility.
 - IP Subnet Enter the Subnet Mask. The default subnet Mask: mask is 255.255.255.0.

Default Enter the gateway IP Address for your local **Gateway:** network.

DNS: Configure the IP address of the preferred DNS server.

D-Link [®]			DAP-3315
Operation Mode Maintenance	Status Configuration	System Logout Help	
😨 DAP-3315 ⊡-⊖ Basic Settings	LAN Settings		_
Wireless	Get IP From	Static IP (Manual)	
⊡ LAN ⊕⊡ Advanced Settings	IP Address	192.168.0.50	
	Subnet Mask	255.255.255.0	
	Default Gateway	192.168.0.1	
	DNS		
			Save

Advanced Settings Performance

This options on this page will allow you to fine tune the wireless connectivity of the access point.

- Wireless: Use the drop-down menu to turn the wireless function **On** or **Off**.
- Wireless Mode: The different combination of clients that can be supported include Mixed 802.11n, 802.11g and 802.11b, Mixed 802.11g and 802.11b and 802.11n Only.

Note: When backwards compatibility is enabled for legacy (802.11g/b) clients, degradation of 802.11n wireless performance is expected.

Data Rate: Set the base transfer rate of wireless adapters on the wireless LAN. The AP will adjust the base transfer rate depending on the base rate of the connected device. This option is enabled in Mixed 802.11g and 802.11b mode. The choices available are Best (Up to 54), 54, 48, 36, 24, 18, 12, 9, 6, 11, 5.5, 2 or 1.

Beacon Beacons are packets sent by an access point **Interval:** to synchronize a wireless network. Specify a value in milliseconds. The default (**100**) is recommended. Setting a higher beacon interval can help to save the power of wireless clients, while setting a lower one can help a wireless client connect to an access point faster.



- **DTIM Interval** Set a Delivery Traffic Indication Message setting between 1 and 255. The default value is 1. DTIM is a countdown informing clients of the next window for listening to broadcast and multicast messages.
 - **Transmit** This setting determines the power level of **Power:** the wireless transmission. Transmitting power can be adjusted to eliminate overlapping of wireless area coverage between two access points where interference is a major concern. For example, if wireless coverage is intended for half of the area, then select 50% as the option. Use the drop-down menu to select 100%, 50%, 25%, or 12.5%.
 - **WMM:** Select whether to **Enable** or **Disable** the WMM functionality of the access point.
- Ack Time Out: To effectively optimize throughput over long distance links, enter a value for Acknowledgement Time Out from 1 to 372 microseconds in the 2.4 GHz in the field provided.
 - Short GI: Select Enable or Disable. Enabling a short guard interval can increase throughput. However, be aware that it can also increase the error rate in some installations due to increased sensitivity to radio-frequency installations.

D-Link [®]		
Operation Mode Maintenance	Status Configuration System L	ogout Help
🖁 DAP-3315 ⊒∽⊖ Basic Settings	Performance Settings	
Basic Securgs Wireless LAN Performance Wireless Resource Multi-SSID Internal RADIUS Server RADIUS Accounts VLAN Intrusion DHCP Server Filters WLAN Partition Schedule Log	Data Rate Bes Beacon Interval (40-500) 100 DTIM Period (1-15) 1 Transmit Power 100 WMM (WI-Fi Multimedia) Ena Ack Time Out 64 Short GI Ena IGMP Snooping Diss Multicast Rate Diss HT 20/40 Coexistence Ena Greenfield Ena	ed 802.11b, 802.11g, 802.11n V t(Up to 300) V Mbps

- IGMP Select Enable or Disable. Internet Group Snooping: Management Protocol allows the AP to recognize IGMP queries and reports sent between routers and an IGMP host (wireless STA). When IGMP snooping is enabled, the AP will forward multicast packets to an IGMP host based on IGMP messages passing through the AP.
- Multicast Rate: Adjust the multicast packet data rate here. The multicast rate is supported in AP mode, and WDS with AP mode, including Multi-SSIDs.
 - HT20/40 Enable this option to reduce interference from Coexistence: other wireless networks in your area. If the channel width is operating at 40MHz and there is another wireless network's channel overlapping and causing interference, the Access Point will automatically change to 20MHz.
 - **Greenfield:** Enable this option to reduce interference from other wireless networks in your area. If the channel width is operating at 40MHz and there is another wireless network's channel overlapping and causing interference, the router will automatically change to 20MHz.
- Transfer DHCPEnable to transfer the DHCP Offer to UnicastOffer tofrom LAN to WLAN, suggest to enable thisUnicast :function if stations number is larger than 30.

D-Link [®]		
Operation Mode Maintenance	Status Configuration System Logout	: Help
DAP-3315	Performance Settings	
- Wireless	Wireless On V	
LAN	Wireless Mode Mixed 802	.11b, 802.11g, 802.11n 🗸
Performance	Data Rate Best(Up to	300) 🗸 Mbps
Wireless Resource Multi-SSID	Beacon Interval (40-500) 100	
Internal RADIUS Server	DTIM Period (1-15)	
RADIUS Accounts	Transmit Power 100% V]
VLAN	WMM (Wi-Fi Multimedia) Enable V	•
DHCP Server	Ack Time Out 64	(µs)
Filters WLAN Partition	Short GI Enable V	
Schedule	IGMP Snooping Disable V	
± <mark>`</mark> Log	Multicast Rate Disable	Mbps
	HT 20/40 Coexistence Enable	
	Greenfield Enabled	✓
	Transfer DHCP Offer to Unicast Disable	
		Sav

Wireless Resource

Wireless Band: 2.4GHz(DAP-3315 is 2.4GHz Access Point

- **Connection Limit:** Select Enable or Disable. This is an option for load balancing. This determines whether to limit the number of users accessing this device. The exact number is entered in the User Limit field below. This feature allows the user to share the wireless network traffic and the client using multiple APs. If this function is enabled and when the number of users exceeds this value, or the network utilization of this AP exceeds the percentage that has been specified, the DAP-3315 will not allow clients to associate with the AP.
 - **User Limit:** Set the maximum amount of users that are allowed access (zero to 64 users) to the device using the specified wireless band. The default setting is 20.
 - Aging out: Use the drop-down menu to select the criteria of disconnecting the wireless clients. Available options are RSSI and Data Rate.
 - **RSSI Threshold:** When RSSI is selected in the Aging out dropdown menu, select the percentage of RSSI here. When the RSSI of wireless clients is lower than the specified percentage, the device disconnects the wireless clients.

D-Link [®]		DAP-331
Operation Mode Maintenance	Status Configuration	ystem Logout Help
🖁 DAP-3315 ⊟⊖ Basic Settings	Performance Settin	S
Wireless Advanced Settings Advanced Settings Wireless Resource Multi-SSID Nutri-SSID Nutri-SSID Nutrision DHCP Server Filters WLAN Partition Schedule Log	Wireless Wireless Mode Data Rate Beacon Interval (40-500) DTIM Period (1-15) Transmit Power WMM (Wi-Fi Multimedia) Ack Time Out Short GI IGMP Snooping Multicast Rate HT 20/40 Coexistence Greenfield Transfer DHCP Offer to Univ	(n ♥ Mixed 802.11b, 802.11g, 802.11n ♥ Best(Up to 300) ♥ Mbps 100 1 100% ♥ Enable ♥ 64 (µs) Enable ♥ Disable ♥ Disable ♥ Enable ♥ Save

- Data RateWhen Data Rate is selected in the Aging outThreshold:drop-down menu, select the threshold of data
rate here. When the data rate of wireless clients
is lower than the specified number, the device
disconnects the wireless clients.
- ACL RSSI: Use the drop-down menu to Enable the function. When enabled, the device denies the connection request from the wireless clients with the RSSI lower than the specified threshold below.

ACL RSSI Set the ACL RSSI Threshold. Threshold:

D-Link		DAP-331
Operation Mode Maintenance	Status Configuration System Logout Help Wireless Resource Control	
Basic Settings Wireless WDS LAN Performance Wireless Resource Wireless Resource Wireless Resource VLAN Intrusion Schedule DHCP Server DHCP Server Log	Wireless Band 2.4GHz V Connection Limit Disable V User Limit (1 - 64) 50 Aging out Disable V RSSI Threshold -80 V dB Data Rate Threshold 54 V ACL RSSI Disable V ACL RSSI Threshold -80 V dB	Save

Multi-SSID

The device supports up to eight multiple Service Set Identifiers. In the **Basic** > **Wireless** section, you can set the Primary SSID. The SSID's factory default setting is **dlink**. The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network.

- **SSID:** Service Set Identifier (SSID) is the name designated for a specific wireless local area network (WLAN).
- Enable Multi- Check to enable support for multiple SSIDs. SSID:

2.4GHz(DAP-3315 is 2.4GHz Access Point

Wireless Band:

- You can select up to seven multi-SSIDs. With Index: the Primary SSID, you have a total of eight multi-SSIDs.
- **SSID Visibility: Enable** or **Disable** SSID visibility. Enabling this feature broadcasts the SSID across the network, thus making it visible to all network users.
 - Security: The Multi-SSID security can be Open System, WPAPersonal, or WPA-Enterprise. For a detailed description of the Open System parameters please go to page 18. For a detailed description of the WPA-Personal parameters please go to page 19. For a detailed description of the WPA-Enterprise parameters please go to page 20.

Priority: Select the priority level of the SSID selected.

D-Link		DAP-3315
operation Mode Maintenance	Status Configuration System Logout Help	
Advanced Settings Vireless Vireless Advanced Settings Vireless Resource Vireless Resource Vireless Resource Vireless Resource Vireless Resource Vireless Resource DHCP Server Filters Log	Status Configuration System Logout Help Multi-SSID Enable Priority Wireless Settings Band 2.4GHz • Index Primary SSID • SSID dlink SSID Visibility Enable • Security Open System • Priority 0 • Key Settings Encryption Encryption Disable Encryption Disable Key Index (1-4) 1 • Network Key (0-9,a-z,A-Z,-1@#\$%^&*()_+*-=0[],':*],./<>?)	
	Index SSID Band Authentication Method Encryption Type Primary SSID dlink 2.4G Hz No Authentication No Encryption	Add
		Save

VLAN

The DAP-3315 supports VLANs. VLANs can be created with a Name and VID. Mgmt (TCP stack), LAN, Primary/Multiple SSID, and WDS connection can be assigned to VLANs as they are physical ports. Any packet which enters the DAP-3315 without a VLAN tag will have a VLAN tag inserted with a PVID. The VLAN List tab displays the current VLANs.

VLAN Status: Use the radio button to toggle between Enable or Disable. After changing the option, you will need to click on Save to add or edit VLANs.

To remove or modify a VLAN, click on the **Delete** or **Edit** button.

To add a VLAN, click on the **Create VLAN** button.

VLAN Mode: The current VLAN mode is displayed.

D-Link		DAP-3315
Operation Mode Maintenance	Status Configuration System Logout Help	_
😼 DAP-3315 ⊟-⊖ Basic Settings	VLAN Settings	
Wireless	VLAN Status :	
Advanced Settings Performance	VLAN List Port List Add/Edit VLAN PVID Setting	
Wireless Resource Multi-SSID Internal RADIUS Server RADIUS Accounts VLAN	VID VLAN Name Unitag VLAN Ports Tag VLAN Ports Mgmt, LAN1, LAN2, Primary(2.4G), 4 5 1 1 default 5-1(2.4G), S-3(2.4G), S-3(2.4G), S-4(2.4G), S-4	Edit Delete
Intrusion DHCP Server WLAN Partition Schedule		

Port List

The **Port List** tab displays the current ports. If you want to configure the guest and internal networks on a Virtual LAN (VLAN), the switch and DHCP server you are using must also support VLANs. As a prerequisite step, configure a port on the switch for handling VLAN tagged packets as described in the IEEE 802.1Q standard.

- VLAN Status: Use the radio button to toggle to Enable. Next, go to the Add/Edit VLAN tab to add or modify an item on the VLAN List tab.
 - **Port Name:** The name of the port is displayed in this column.
 - Tag VID: The Tagged VID is displayed in this column.
 - Untag VID: The Untagged VID is displayed in this column.
 - **PVID:** The Port VLAN Identifier is displayed in this column.

D-Link			DAP-331
Operation Mode Maintenance	Status Configuration System	Logout Help	
😼 DAP-3315	VLAN Settings		
Basic Settings Wireless WDS LAN Performance Wireless Resource Multi-SSID VLAN VLAN Intrusion Schedule DHCP Server DHCP Server DHCP Server DHCP Server DHCP Server DHCP Server DHCP Server DHCP Server	VLAN Status : Disable Enable VLAN Status : Static(2.4G) VLAN List Port List	Save Save PVID Setting	
	Port Name Tag VID Mgmt LAN1 LAN2 Primary(2.4G) S-1(2.4G) S-2(2.4G) S-3(2.4G) S-4(2.4G) S-4(2.4G) S-5(2.4G) S-4(2.4G) S-5(2.4G) S-6(2.4G) S-7(2.4G) S-7(2.4G) S-7(2.4G) S-7(2.4G) S-7(2.4G)	Addredit VLAN PAGE Setting Untag VID 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PVID 1 1 1 1 1 1 1 1 1 1 1 1 1

Add/Edit VLAN

The **Add/Edit VLAN** tab is used to configure VLANs. Once you have made the desired changes, click the **Save** button to let your changes take effect.

VLAN Status: Use the radio button to toggle to Enable.

VLAN ID: Provide a number between 1 and 4094 for the Internal VLAN.

VLAN Name: Enter the VLAN to add or modify.

D-Link										D)AP-3315
Operation Mode Maintenance	Status	Configuration	Sj	/stem	Logout	Help					
■ DAP-3315 □ □ □ □ □ □ □	VLA	N Settings									
		Status : O Disable Status : Static(2.4G		able				Save			
Advanced Settings Performance	VLA	AN List Po	rt List	Ad	ld/Edit Vl	LAN	PV	ID Setting			
Wireless Resource	VLA	N ID (VID) 1	VL.	AN Name	default						
Internal RADIUS Server		Port	Select A	ll Mgrnt	LAN1	LAN2					
		Untag	All	۲	۲	۲					
Intrusion		Tag	All	\circ	\circ	\circ					
DHCP Server		Not Member	All	0	0	0					
Filters WLAN Partition	2.4	lGHz									
Schedule		MSSID Port S	elect All	Primary	S-1	S-2	S-3	S-4	S-5	S-6	S-7
⊞ 🔁 Log		Untag	All	۲	۲	۲	۲	۲	۲	۲	۲
		Tag	All								
		Not Member	All	0	0	0	0	0	0	0	0
		WDS Port S	elect All	W-1							
		Untag	All	۲							
		Tag	All	•							
		Not Member	All	0							
											Save

PVID Settings

The **PVID Setting** tab is used to enable/disable the Port VLAN Identifier Auto Assign Status as well as to configure various types of PVID settings. Click the **Save** button to let your changes take effect.

VLAN Status: Use the radio button to toggle between Enable and Disable.

PVID Auto Use the radio button to toggle PVID auto assign **Assign Status:** status to Enable.

D-Link [®]	D	AP-3315
Operation Mode Maintenance	Status Configuration System Logout Help	
😼 DAP-3315 🖻 😋 Basic Settings	VLAN Settings	
Wireless	VLAN Status : Disable Enable Save VLAN Status : Static(2.4G)	
LAN	VLAN List Port List Add/Edit VLAN PVID Setting	
Performance Wireless Resource	PVID Auto Assign Status Disable Enable	
Multi-SSID VLAN Intrusion	Port Mgmt LAN1 LAN2 PVID 1 1 1	
Schedule	MSSID Port Primary S-1 S-2 S-3 S-4 S-5 S-6 S-7 PVID 1	
⊕ Filters ⊕ Log	WDS Port W-1 PVID 1	
		Save

Intrusion

The **Wireless Intrusion Protection** window is used to set APs as All, Valid, Neighborhood, Rogue, and New. Click the **Save** button to let your changes take effect.

Wireless Band: 2.4GHz.

- **AP List:** The choices include All, Valid, Neighbor, Rogue, and New.
- **Detect:** Click this button to initiate a scan of the network.



Schedule

The **Wireless Schedule Settings** window is used to add and modify scheduling rules on the device. Click the **Save** button to let your changes take effect.

Wireless Use the drop-down menu to enable the **Schedule:** device's scheduling feature.

- Name: Enter a name for the new scheduling rule in the field provided.
- Index: Use the drop-down menu to select the desired SSID.
- **SSID:** This read-only field indicates the current SSID in use. To create a new SSID, go to the Wireless Settings window (Basic Settings > Wireless).
- **Day(s):** Toggle the radio button between All Week and Select Day(s). If the second option is selected, check the specific days you want the rule to be effective on.
- All Day(s): Check this box to have your settings apply 24 hours a day.
- **Start Time:** Enter the beginning hour and minute, using a 24-hour clock.
- **End Time:** Enter the ending hour and minute, using a 24-hour clock.

D-Link		DAP-3315
Operation Mode Maintenance	Status Configuration	System Logout Help
Operation Mode Maintenance DAP-3315 Basic Settings Wireless Wireless Work LAN Advanced Settings Performance Wireless Resource Multi-SSID VLAN Intrusion Schedule DHCP Server Filters Filters	Status Configuration Wireless Schedul Wireless Schedule Add Schedule Rule Name SSID Index SSID Day(s) All Day(s) Start Time End Time	
	Schedule List Name SSID Index	SSID Day(s) Time Frame Wireless Edit DEL Save
DHCP Server Dynamic Pool Settings

The DHCP address pool defines the range of the IP address that can be assigned to stations in the network. A Dynamic Pool allows wireless stations to receive an available IP with lease time control. If needed or required in the network, the DAP-3315 is capable of acting as a DHCP server.

- Function Select Enable to allow the DAP-3315 to Enable/ function as a DHCP server.Disable:
- IP Assigned Input the first IP address available for From: assignment on your network.
- **IP Assigned To:** Input the last IP address available for assignment on your network.
 - **Domain:** Enter the domain name of the network, if applicable. (An example of a domain name is: www.dlink.com.)
 - Least Time The lease time is the period of time before the DHCP server will assign new IP addresses.

Operation Mode Maintenance	Status Configuration	System Logout	Help
DAP-3315	Dynamic Pool Se	ttings	
Basic Settings Wireless	DHCP Server Control		
Advanced Settings	Function Enable/Disable	Disabled V	
	Dynamic Pool Settings		
	IP Assigned From	192.168.0.120	
RADIUS Accounts	IP Assigned To	192.168.0.140	
VLAN Intrusion	Domain Name	setup.dlink.com	1
DHCP Server	Lease Time	One Hour 🗸	
Dynamic Pool Settings Static Pool Settings	DNS	0.0.0	
Current IP Mapping List			
- Filters			Sa
WLAN Partition			
E Cog			

Static Pool Settings

The DHCP address pool defines the range of IP addresses that can be assigned to stations on the network. A static pool allows specific wireless stations to receive a fixed IP without time control.

- Host Name: Enter a name for the computer or device that will be used to identify the IP address and assigned MAC address.
- Assigned IP: Use the Static Pool Settings to assign the same IP address to a device every time you start up. The IP addresses assigned in the Static Pool list must NOT be in the same IP range as the Dynamic Pool.
- Assigned MAC Enter the MAC address of the device requesting Address: association here.

After you have assigned a static IP address to a device via its MAC address, click **Save**; the device will appear in the Assigned Static Pool at the bottom of the screen. You can edit or delete the device in this list.

D-Link [®]					DAP-3315
Operation Mode Maintenance	Status	Configuration	System	Logout	Help
😼 DAP-3315 ⊡⊖ Basic Settings	Statio	Pool Settin	gs		
Wireless	DHCP Se	erver Control			
Advanced Settings	Function	I Enable/Disable		Disabled V	
Wireless Resource	Static Po	ool Settings			
Multi-SSID Internal RADIUS Server RADIUS Accounts VLAN	Host Na Assigne Assigne				
HCP Server DHCP Server Dynamic Pool Settings Static Pool Settings Current IP Mapping List					Save
		Host Name		MAC Address	s IP Address Edit Delete

Current IP Mapping List

This window displays information about the current assigned DHCP dynamic and static IP address pools. This information is available when you enable DHCP server on the AP and assign dynamic and static IP address pools.

- Current DHCPThese are IP address pools the DHCP serverDynamichas assigned using the dynamic pool setting.Profile:
- **Binding MAC** The MAC address of a device on the network Address: that is assigned an IP address from the DHCP dynamic pool.
- Assigned IP The current corresponding DHCP-assigned IP Address: address of the device.
- Lease Time: The length of time that the dynamic IP address will be valid.



Filter MAC Address ACL

This page allows the user to configure Wireless MAC ACL settings for access control.

Wireless Band: Displays the current wireless band rate.

- Access Control Select Disable to **disable** the filters function. List:
- MAC Address: Select Accept to accept only those devices with MAC addresses in the Access Control List. All other devices not on the list will be rejected.
- MAC Address Select Reject to reject the devices with MAC List: addresses on the Access Control List. All other devices not on the list will be accepted. Enter each MAC address that you wish to include in your filter list, and click Apply. When you enter a MAC address, it appears in this list. Highlight a MAC address and click Delete to remove it from this list.

Current Client This table displays information about all the **Information:** current connected stations.

D-Link						DAP-3310	
🔶 Operation Mode 🛛 🌋 Mainte	enance 🗸	🚽 Status 🗸	Configuration 🗸	😌 System	🙋 Logout	🕐 Help	
DAP-3310	Wire	less MAC AG	CL Settings				
🥟 Access Point - 🎾 Basic Settings	Access C	ontrol List	Disable Save				
···· 📑 Wireless Settings ···· 🗟 LAN	MAC Add	ress	Ad	d			
Advanced Settings Performance Multi-SSID VLAN QoS OF DHCP Server Dynamic Pool Settings 							
Schedule	Current C	lient Information					
		-	-	Authentication	1	Signal Add	

WLAN Partition

This page allows the user to configure a WLAN Partition.

Wireless Band: Displays the current wireless band.

- Link Integrity: Select Enable or Disable. If the Ethernet connection between the LAN and the AP is disconnected, enabling this feature will cause the wireless segment associated with the AP to be disassociated from the AP.
- **Ethernet WLAN** The default is Enable. When disabled, all data **Access:** from the Ethernet to associated wireless devices will be blocked. Wireless devices can still send data to the Ethernet.
- Internal Station The default value is Enable, which allows stations Connection: to intercommunicate by connecting to a target AP. When disabled, wireless stations cannot exchange data on the same Multi-SSID. In Guest mode, wireless stations cannot exchange data with any station on your network.
 - Guest Mode: Select this option to disallow communication between wireless clients connected to the same SSID and between wireless clients connected to different SSIDs configured on the access point.

Operation Mode Maintenance	Status	Configuration	System Logout	Help		
DAP-3315	WLA	N Partition	_	_	_	_
Basic Settings Wireless WDS LAN		ss Band I Station Connection	2.4GHz ▼			
		Primary SSID Multi-SSID 1 Multi-SSID 2 Multi-SSID 3 Multi-SSID 4 Multi-SSID 5	 Enable Enable Enable Enable Enable Enable Enable Enable 	 Disable Disable Disable Disable Disable Disable Disable 	Guest mode Guest mode Guest mode Guest mode Guest mode Guest mode	
		Multi-SSID 6 Multi-SSID 7	 Enable Enable 	 Disable Disable 	Guest mode	Sav

View Log

The AP's embedded memory holds logs here. The log information includes but is not limited to the following items: cold start AP, upgrading firmware, client associate and disassociate with AP, and web login. The web page holds up to 500 logs.

View Log: The AP's embedded memory displays system and network messages including a time stamp and message type. The log information includes but is not limited to the following items: cold start AP, upgrading firmware, client associate and disassociate with AP, and web login. The web page holds up to 500 logs.

D-Link				DAP-331
Operation Mode Maintenance	Status Configuratio	n System	Logout Help	
S DAP-3315 General Sections General Wireless General WDS General Content	View Log First Page Last Page 1 of 3	Page Previ	ous Next Clear	
🖻 😋 Advanced Settings	Date and Time	Catamani	Manager	
Performance	2018/08/08 14:55:58	Category SYSTEM	Message	
	2018/08/08 13:54:22	SYSTEM	LAN, Port[1] link is changed to 100Mbps-Full-Duplex LAN, Port[1] link status is changed to down	
Multi-SSID	2018/08/08 13:34.22	SYSTEM	LAN, Port[1] link status is changed to down LAN, Port[1] link is changed to 100Mbps-Full-Duplex	
	2018/08/08 13:41:19	SYSTEM	LAN, Port[1] link is changed to down	
Intrusion Schedule	2018/08/08 10:36:58	SYSTEM	LAN, Port[1] link is changed to 100Mbps-Full-Duplex	
DHCP Server	2018/08/08 09:14:23	SYSTEM	LAN, Port[1] link is changed to roombps-ruii-Duplex	
Dynamic Pool Settings	2018/08/08 08:42:28	SYSTEM	LAN, Port[1] link is changed to 100Mbps-Full-Duplex	
Static Pool Settings	2018/08/08 08:42:25	SYSTEM	LAN, Port[1] link status is changed to down	
Current IP Mapping List	2018/08/08 08:42:07	SYSTEM	LAN, Port[1] link is changed to 100Mbps-Full-Duplex	
E 😑 Filters	2018/08/08 08:42:01	SYSTEM	LAN, Port[1] link status is changed to down	
Wireless MAC ACL	2018/08/07 17:46:23	WLAN	Wireless 2.4G (SSID1), STA(0c:8b:fd:9a:b0:5a) : disassociate	be
WLAN Partition	2018/08/07 17:46:23	WLAN	Wireless 2.4G (SSID1), STA(6c.6b.id.5a.5b.5a) : disassociated Wireless 2.4G (SSID1), STA(0c:8b:fd:9a:b0:5a) : associated	
E G Log	2018/08/07 17:46:22	WLAN	Wireless 2.4G (SSID1), STA(0c:8b:fd:9a:b0:ba) : disassociated	ed
View Log	2018/08/07 17:46:16	WLAN	Wireless 2.4G (SSID1), STA(0c:8b:fd:9a:b0:5a) : disassociate	
Log Settings	2018/08/07 17:46:06	WLAN	Wireless 2.4G (SSID1), STA(0c:8b:fd:9a:b0:5a) : disassociate	
	2018/08/07 17:46:06	WLAN	Wireless 2.4G (SSID1), STA(0c:8b:fd:9a:b0:5a) : associated	

Log Settings

Enter the log server's IP address to send the log to that server. Check or uncheck System Activity, Wireless Activity, or Notice to specify what kind of log type you want it to log.

- Log Server/IP Enter the IP address of the server you would like Address: to send the DAP-2660 log to.
 - Log Type: Check the box for the type of activity you want to log. There are three types: System Activity, Wireless Activity, and Notice.

E-mail Support Simple Mail Transfer Protocol for log Notification: schedule and periodical change key. It can not support Gmail SMTP port 465. Please set to Gmail SMTP port 25 or 587.

E-mail Log Use the drop-down menu to set the e-mail log **Schedule:** schedule.

D-Link			DAP-3315
Operation Mode Maintenance	Status Configuration	System Logout Help	
DAP-3315 DAP-3315 Wireless WDS LAN Performance Wireless Resource Multi-SSID VLAN Intrusion Schedule Current IP Mapping List Filters Wiceless MAC ACL WLAN Partition Current IP Mapping List Current IP Mappin	Log Settings Log Server Settings Log Server Settings Log Server / IP Address Log Type Email Notification Email Notification Email Subject SMTP Server Address SMTP Server Port Sender E-mail Receiver E-mail Authentication	Enable Syslog Server System Activity Debug Information Attacks Dropped Packets Notice	Save

DMZ

DMZ is short for Demilitarized Zone. If an application has trouble working from behind the router, you can expose a computer to the Internet and run the application on that computer.

Service: You can select either Single DMZ or Multiple DMZ. This will allow you to choose whether to expose a single IP address via DMZ, or to expose multiple IP addresses.

Note: Placing a computer in the DMZ may expose that computer to a variety of security risks.

- **IP Address:** Specify the IP address of the computer on the LAN that you want to have unrestricted Internet communication. If this computer obtains it's IP address automatically using DHCP, be sure to make a static reservation on the **DHCP Server** > **Static Pool Settings** page so that the IP address of the DMZ machine does not change.
- Public WAN IPIf the Multiple DMZ option is selected, thisAddress:field will be available. This should be set to the
external IP address that will be assigned to an
internal IP address of a computer or device.
- Local DMZ IP If the Multiple DMZ option is selected, this Address: field will be available. This should be set to the internal IP address of a computer or device that will be assigned to an external IP address.





Virtual Server

This will allow you to open a single port. This allows a computer or device to provide external access to services or applications that are otherwise blocked by the built-in firewall. To create a virtual server, click on **Create New Virtual Server**, and the following settings will appear:

Service: Select to either Disable or Enable the rule.

- **Description:** Enter a name for the rule.
 - **Private IP:** Enter the IP address of the computer on your local network that you want to allow the incoming service to.
- Protocol Type: Select either TCP or UDP.
 - **Private Port:** Enter the port that you want to open for the computer or device on the internal network.
 - **Public Port:** Enter the port that you want to open for the external network.

Note: The private and public ports are usually the same. The public port is the port seen from the Internet side, and the private port is the port being used by the application on the computer or device within your local network.



D-Link		DAP-3315
Operation Mode Maintenance	Status Configuration System Logout Help	
DAP-3315 DaP-3315 Wireless Wireless LAN Settings LAN Avanced Settings Performance Schedule B DHCP Server DHZ Port Forwarding Port Forwarding	Virtual Server Service Description Private IP Protocol Type Or O UDP Private Port Public Port	
Gegenerating Cogenerating Cog Settings		Cancel Save

Port Forwarding

This option is used to open multiple ports or a range of ports in this AP and redirect data through these ports to a single PC on your network.

Rule Name: Enter a name for the rule.

- **Local IP:** Enter the IP address of the computer on your local network that you want to allow the incoming service to.
 - **Type:** Enter the TCP and/or UDP port or ports that you want to open.
- **Port Range:** Enter a single port or a range of ports. Example: 24,1009,3000-4000

Click **Add** to add this rule or Reset to clear settings.

D-Link [®]							DAP-33	315
Operation Mode Maintenance	Status	Configuration	System	Logout	Help			
DAP-3315 Basic Settings Wireless LAN Advanced Settings Performance DHCP Server DMZ Virtual Server Port Forwarding Parental Control IP Routing Cog View Log Log Settings	Port I Rule N Local I Type Port R Add Port I Rule Na	P ange Reset Forwarding List		m 15 rules)	pcol	Port range] Select	

Parental Control

Parental Control is used to allow you to set up a range of IP Addresses that can be either be blacklisted or whitelisted to certain MAC addresses on the network.

- Active: Select to either **Disable** or **Enable** the Parental Control feature.
- **Comment:** You can enter a comment here for each rule that is created.
- MAC Address: Enter the MAC address to be monitored and click **Save** to add it to the parental control list.
 - Local IP: Enter the start and end of an IP address range that you would like to filter on the local network. This is normally used to prevent access to certain parts of the internal network.
- **Destination IP:** Enter the start and end of an IP address range that you would like to filter on the destination network. This is normally used to prevent access to certain parts of the external network.
 - Protocol: Specify which protocol to filter.
 - **Local Port:** Enter the specific port to filter on the local network.
 - **Destination** Enter the specific port to filter on the destination **Port:** network.

D-Link						DAP-3315
Operation Mode Maintenance	Status Configuration	System	Logout	Help		_
😼 DAP-3315	Parental Control			_	_	_
Basic Settings Wireless Wireless LAN Settings Wireless LAN Settings LAN WAN Advanced Settings Performance Schedule DHCP Server DMZ Virtual Server Port Forwarding Parental Control IP Routing Log View Log Log Settings	Active Comment MAC Address Local IP Destination IP Protocol Local Port Destination Port		Enable	Disable	Remove	Save Cancel

IP Routing Static Routing Setup

This page will allow you to define specific routes that will be broadcasted by the AP and made available to the clients that connect to it.

Mode: Select Enabled to create static route.

- **Destination** Enter either the destination network, or the **Net/Mask:** subnet mask that will be used in the static route.
 - Via: Select whether the static route will be controlled by an existing gateway, or if the interface on the AP should route the traffic.
 - **Gateway:** This option becomes available if **Gateway** is selected. Enter the gateway IP address.



Maintenance Administration Settings

This page will allow you to change a number of settings that are used by the device administrator such as changing the password used to access the device, as well as the method of accessing the device remotely and from what IP address the device can be remotely managed from.

Limit	Check this to limit administrator access to
Administrator IP:	specific IP ranges only.

- **IP Range:** Enter the IP address range that the administrator will be allowed to log in from and then click the Add button.
- **System Name:** Enter a name for the device. The default name is D-Link DAP-3310.
 - Description: Enter a description for the device and its role.
 - **Location:** Enter the physical location of the device, e.g. 72nd Floor, D-Link HQ.

Login Name: Enter a user name. The default is admin.

- Old Password / New Password: You can change your password by entering the old password, then entering the new password and entering it again to confirm it. The password is case-sensitive and should be between 0 and 12 characters.
- **Country Settings:** You can change country domain here. (For some countries such as Unitied States, Japan, Isael and Korea, this selection is grayed out due to regulation limitation.

D-Link			DAP-3315
Operation Mode Maintenance	Status Configuration Syster	n Logout Help	
DAP-3315	Administration Settings	_	
Wireless Wireless LAN Settings	Limit Administrator 🛛		
LAN WAN	Limit Administrator VLAN ID	Enable 0	
Advanced Settings	Limit Administrator IP	Enable	To
Schedule DHCP Server DHZ	Item From	То	Delete
Virtual Server Port Forwarding	System Name Settings 💆		
Parental Control	System Name	DAP-3315	
Log	Location		
Log Settings	Login Settings 🔽		
	Login Name New Password	admin	(4-32Characters)
	Confirm Password	•••••	(Confirm) C Apply New Password
	Country Settings		
	Select a Country	United Kingdom	•

Firmware and SSL Certification Upload

This page allows the user to perform a firmware upgrade. A Firmware upgrade is a function that upgrade the running software used by the access point. This is a useful feature that prevents future bugs and allows for new features to be added to this product. Please go to your local D-Link website to see if there is a newer version firmware available.

Firmware	You can upload files to the access point.
and SSL	
Certification	
Upload:	

Upload	The current firmware version is displayed above
Firmware from	the file location field. After the latest firmware
Local Hard	is downloaded, click on the "Choose File"
Drive:	button to locate the new firmware. Once the
	file is selected, click on the "Open" and "Upload"
	button to begin updating the firmware. Please
	don't turn the power off while upgrading.

Language Pack Upload specified language pack file to this AP. Upgrade:

Upload SSLAfter you have downloaded a SSL certificationCertificationto your local drive, click "Choose File." Select the
certification and click "Open" and "Upload" to
complete the upgrade.

D-Lin	ık								DAP-3315
Operation Mode	Maintenance	Status	Configuration	System	Logout	Help			
DAP-3315	ngs	_	ware and SS Firmware From Lo	ocal Hard Dri	-		-	-	_
			Firmware From Fil ge Pack Upgrade	e :			Browse	Update	
		Upload Update	: SSL Certification	From Local I	Hard Drive		Browse	Update	
		Upload	Certificate From Fi	ile :	<u> </u>		Browse	Update	
		Upload	Key From File :				Browse	Update	

Configuration File

This page will allow you to upload or download a configuration file for the DAP-3315.

Upload File: Use this option to load a previously saved configuration. Click **Browse** to find a previously saved configuration file. Then, click the **Upload Settings** button to transfer those settings to the access point.

Load Setting Use this option to save the current access point to Local Hard configuration settings to a file on the hard Drive: disk of the computer you are using. Click the Download button. You will then see a file dialog where you can select a location and file name for the settings.

D-Link		DAP-3315
Operation Mode Maintenance	Status Configuration System Logout Help	
JAP-3315	Configuration File Upload and Download	
E C Advanced Settings	Upload Configuration File	
🗄 🦳 Log	Upload File : Browse Upload	
	Download Configuration File	
	Load Settings to Local Hard Drive Download	
	Upload CWM File	
	Upload File : Upload	

Time and Date

The Time Server Setup page allows you to configure, update, and maintain the correct time on the internal system clock. In this section you can set the time zone that you are in. Daylight Saving can also be configured to automatically adjust the time when needed.

- Enable NTP NTP is short for Network Time Protocol.Server: This allows the system clock to be updated automatically by using an NTP server.
- **NTP Server** Enter the NTP server or select one from the **Used:** drop-down menu.
- **Time Zone:** Select the Time Zone from the drop-down menu.
- DaylightTo set Daylight Saving time manually, click theSaving Time:Daylight Saving Time check box. Next, use the
drop-down menu to select a Daylight Saving
Offset and then enter a start date and an end
date for daylight saving time.
- Date and Time: To manually set the time, enter the Year, Month, Day, Hour, Minute, and Second and then click Save. To avoid having to manually set the time, you can also click the Copy Your Computer's Time Settings button at the bottom of the page to have the DAP-3315 automatically set the time based on the system clock of the computer being used to configure the DAP-3315.

D-Lin	ık					DAP-3315						
Operation Mode	Maintenance	Status Configura	ation System	Logout	Help							
DAP-3315		Time and Da	ate Settings	_								
Wireless WDS	Time Configura	Time Configuration										
LAN	gs	Current Time 2018/08/07 14:25:42										
E G Log		Automatic Time	e Configuration									
Log Settings		Enable NTP Server										
	NTP Server											
	Time Zone											
		Set the Date and Time Manually										
		Date And Time	Hour 1	018 V Month 6 V Minute mputer's Time S	e 50 ▼ Second 03 ▼							
		Set Daylight Sav	ving Manually									
		Enable Daylight Sav	ing 🔲									
		DST Start(24 HR)	Second V S	unday 🔻 i	in Mar 🔻 at 2 🔻 : 0 🔻							
		DST End(24 HR)	First 🔻 S	unday 🔻 i	in Nov▼ at 2 ▼ : 0 ▼							
		DST Offset(minutes)	60 🔻			•						

Status Device Information

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This page displays the current LAN, wireless LAN and important device information for the DAP-3315.

- Firmware Displays the access point's time and firmware Version: version. Also displays the current operating mode and hardware address (MAC), which may be needed by a network administrator.
- Wireless: Displays the wireless your wireless settings such as SSID and Channel along with the current power output of the antennae, data throughput, and wireless security method.
- Ethernet: Displays the private (local) IP settings for the two built in LAN ports on the access point.
- Device Status: Displays current system utilization of the access point.

D-Link			DAP-3315
Operation Mode Maintenance	Status Configuration	System Logout Help	
DAP-3315	Device Informat	lion	
Basic Settings Wireless WDS LAN Performance Wireless Resource Wireless Resource	Ethernet MAC Address Wireless MAC Address(Firmware Version:0.02 13:17:15 2018/08/09 78:32:1B:05:07:CD (2.4GHz): Primary: 78:32:1B:05:07:CD	•
	Ethernet		
Intrusion Schedule	IP Address	192.168.0.50	
DHCP Server	Subnet Mask	255.255.255.0	
🗈 🚞 Filters	Default Gateway	192.168.0.1	
± — Log	DNS		
	Wireless(2.4GHz)		
	Network Name (SSID)	dlink	
	Channel	Ch 5 (Auto)	
	Data Rate	Best(Up to 300) Mbps	
	Security	No Authentication / No Encryption	
	Device Status		
	CPU Utilization	3%	
	Memory Utilization	75%	

Client Information

This window displays the wireless client information for clients currently connected to the DAP-3315.

- **Client** This window displays the wireless client **Information:** information for clients currently connected to the DAP-3315.
 - **SSID:** Displays the SSID of the client.
 - MAC: Displays the MAC address of the client.
 - **Band:** Displays the wireless band that the client is connected to.
- Authentication: Displays the type of authentication being used.
 - **RSSI:** Displays the client's signal strength.
 - **Power Saving** Displays the status of the power saving feature. **Mode:**

D-Link		DAP-3315
Operation Mode Maintenance	Status Configuration System Logout Help	
DAP-3315 Basic Settings	Client Information	
Wireless WDS LAN Advanced Settings	Client Information Station association (2.4GHz): 0	
	SSID MAC Band Authentication	RSSI Power (dbm) Saving Mode
	No wireless client	
View Log Log Settings		

Ethernet Information

The DAP-3315 keeps statistics of the traffic that passes through it. You can view the amount of packets that pass through the LAN and wireless portions of the network. The traffic counter will reset if the access point is rebooted.

D-Lin	ık						DAP-3315
Operation Mode	Maintenance	Status	Configuration	System	Logout	Help	
🖁 DAP-3315		Ethe	rnet Traffic S	statistics		_	_
Basic Settings Wireless WDS LAN Advanced Settings Log View Log Log Settings	Transm	itte d Count				Clear Refresh	
		itted Count hitted Packet Count	t	0			
	Transm	nitted Bytes Count		0			
	Droppe	d Packet Count		0			
	Receive	ed Count					
		Receive	ed Packet Count		0		
		Receiv	ed Bytes Count		0		
		Droppe	ed Packet Count		0		

WLAN Information

This window displays wireless network statistics for data throughput, transmitted and received frames, and frame errors. The traffic counter will reset if the access point is rebooted.

Operation Mode Maintenance Status Configuration System Logout Help DAP-3315 Basic Settings WLAN Traffic Statistics Clear WDS 2.4GHz Clear Advanced Settings Transmitted Count 0 View Log Transmitted Packet Count 0 Dog Settings Dropped Packet Count 0 Dropped Packet Count 0 Received Count Received Count 0 0 Received Packet Count 0	AP-3315
Basic Settings Clear Wireless 2.4GHz WDS 2.4GHz Advanced Settings Transmitted Count View Log Transmitted Packet Count 0 View Log Transmitted Bytes Count 0 Dropped Packet Count 0 0 Transmitted Retry Count 0 0 Received Count 0 0	
Wireless Clear WDS 2.4GHz Advanced Settings Transmitted Count 0 View Log View Log Clear 2.4GHz Transmitted Packet Count 0 Dropped Packet Count 0 Dropped Packet Count 718 Transmitted Retry Count 0 Received Count	
LAN Transmitted Count Log Transmitted Packet Count View Log Transmitted Bytes Count Dropped Packet Count 0 Transmitted Retry Count 0 Received Count 0	Refresh
Advanced Settings Transmitted Count Log Transmitted Packet Count 0 View Log Transmitted Bytes Count 0 Dropped Packet Count 718 Transmitted Retry Count 0 Received Count	
View Log Uiew Log Log Settings Transmitted Packet Count Dropped Packet Count 0 Transmitted Retry Count 0 Received Count 0	
Log Settings Transmitted Bytes Count 0 Dropped Packet Count 718 Transmitted Retry Count 0 Received Count 718	
Transmitted Retry Count 0 Received Count	
Received Count	
Received Packet Count 0	
Received Bytes Count 0	
Dropped Packet Count 0	
Received CRC Count 15166	
Received Decryption Error Count 0	
Received MIC Error Count 0	
Received PHY Error Count 9801	

Configuration Save and Activate

When making changes on most of the configuration screens it is best to use the **Save** button at the bottom of each screen to save (not activate) your configuration changes.

You may change settings to multiple pages before activating. Once you are finished, click the **Configuration** button located at the top of the page and then click **Save and Activate**. You can then click **Activate** here to enable your changes.

D-Link					DAP-3315
Operation Mode Maintenance	Status	Configuration	System	Logout Help	
😨 DAP-3315 ⊨ 😋 Basic Settings	Syst	Save and Activa	te		
Wireless WDS	Model	Discard Changes		DAP-3315	
	Firmwa	re Version		0.1.2	
Advanced Settings	System Name			DAP-3315	
Cog View Log	Locatio	n			
	System Time			2018/08/07 15:00:55	
	Up Tim	Time eration Mode (2.4GHz)		00:39:01	
	Operat			Access Point	
	MAC A	ddress (2.4GHz)		78:32:1B:05:07:CD	
	IP Add	ress		192.168.0.50	

Discard Changes

When making changes on most of the configuration screens it is best to use the **Save** button at the bottom of each screen to save (not activate) your configuration changes.

If you wish to discard all of the changes you have made, and not yet activated, you may click the **Discard** button.

D-Link	Ĉ						DAP-331
Operation Mode Main	itenance S	Status	Configuration	System	Logout	Help	
DAP-3315 Basic Settings		Syst	Save and Activat	e			_
- Wireless		Model	Discard Changes	;	DAP-3315		
WDS LAN Advanced Settings		Firmware Version System Name			0.1.2		
					DAP-3315		
E-G Log		Location	1				
Log Settings		System	Time		2018/08/07 1	5:00:55	
		Up Time	1		00:39:01		
		Operatio	on Mode (2.4GHz)		Access Point		
		MAC Ad	dress (2.4GHz)		78:32:1B:05:	07:CD	
		IP Addre	ess		192.168.0.50		

System

This page will allow you to restart the AP, or restore its settings to the factory defaults.

Click the **Restart** button to reboot the device.

Click the **Restore** button to reset all settings back to the factory defaults. Please note that this will erase all settings and changes made to the device's configuration.

Click the Clear button to clear the current Language pack running.

D-Link [®]		DAP-3315
Operation Mode Maintenance	Status Configuration System Logout Help	
😼 DAP-3315 ⊟- 😋 Basic Settings	System Settings	
Wireless WDS LAN	Restart the Device Restart	
Advanced Settings G Log View Log	Restore to Factory Default Settings Restore	
Log Settings	Clear Language Pack Clear	

Help

Further information and in depth help can be found anytime from the AP's online help function. Scroll down the Help page for topics and explanations.

Operation Mode

Select a function mode to configure your wireless network. Function modes include Access Point, WDS with AP, WDS, Wireless Client, Repeater, WISP Client Router and WISP Repeater. Function modes are designed to support various wireless network topology and applications.

Basic Settings

Wireless Setting

Allow you to change the wireless settings to fit an existing wireless network orto customize your wireless network.

Network Name (SSID)

Also known as the Service Set Identifier, this is the name designated for a specific wireless local area network (WLAN). The factory default setting is "dlink". The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network.

SSID Visibility

Indicate whether or not the SSID of your wireless network will be broadcasted. The default value of SSID Visibility is set to "Enable," which allow wireless clients to detect the wireless network. By changing this setting to "Disable," wireless clients can no longer detect the wireless network and can only connect if they have the correct SSID entered.

Auto Channel Selection

If you check Auto Channel Scan, everytime when AP is booting up, the AP will automatically find the best channel to use. This is enabled by default.

Channel

Indicate the channel setting for the DAP-3310. By default, the AP is set to Auto Channel Scan. The Channel can be changed to fit the channel setting for an existing wireless network or to customize the wireless network

Extension Channel

Only for Channel Bandwidth "40†MHz. Select the desired channel bonding for control.

Channel Width

Allows selection of the channel width you would like to operate in.20 MHz and Auto 20/40MHz allow both 802.11n and non-802.11n wireless devices on your network when the wireless mode is Mixed 802.11 b/g/n in 2.4G.802.11n wireless devices are allowed to transmit data using 40 MHz when the channel width is Auto 20/40 MHz.

Authentication

For added security on a wireless network, data encryption can be enabled. There are several available Authentications type can be selected. The default value for Authentication is set to "Open System".

Open System

For Open System authentication, only the wireless clients with the same WEP key will be able to communicate on the wireless network. The Access Point will remain visible to all devices on the network.

Shared Key

For Shared Key authentication, the Access Point cannot be seen on the wireless network except to the wireless clients that share the same WEP key

WPA/WAP2-Personal

Wi-Fi Protected Access authorizes and authenticates users onto the wireless network. It uses TKIP encryption to protect the

Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DAP-3315. Read the following descriptions if you are having problems.

1. Why can't I access the web-based configuration utility?

When entering the IP address of the D-Link access point (192.168.0.50 for example), you are not connecting to a website on the Internet or have to be connected to the Internet. The device has the utility built-in to a ROM chip in the device itself. Your computer must be on the same IP subnet to connect to the web-based utility.

- Make sure you have an updated Java-enabled web browser. We recommend the following:
- Internet Explorer 11.0 or higher, Chrome, Firefox, or Safari 7 or higher
- Verify physical connectivity by checking for solid link lights on the device. If you do not get a solid link light, try using a different cable or connect to a different port on the device if possible. If the computer is turned off, the link light may not be on.
- Disable any internet security software running on the computer. Software firewalls such as Zone Alarm, Black Ice, Sygate, Norton Personal Firewall, and Windows[®] firewall may block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it.
- Configure your Internet settings:

Go to Start > Settings > Control Panel. Double-click the Internet Options Icon. From the Security tab, click the button to restore the settings to their defaults.

Click the Connection tab and set the dial-up option to Never Dial a Connection. Click the LAN Settings button. Make sure nothing is checked. Click OK.

Go to the Advanced tab and click the button to restore these settings to their defaults. Click OK three times. Close your web browser (if open) and open it.

- Access the web management. Open your web browser and enter the IP address of your D-Link access point in the address bar. This should open the login page for your the web management.
- If you still cannot access the configuration, unplug the power to the access point for 10 seconds and plug back in. Wait about 30 seconds and try accessing the configuration. If you have multiple computers, try connecting using a different computer.

Configure your Internet settings:

2. What can I do if I forgot my password?

If you forgot your password, you must reset your access point. Unfortunately this process will change all your settings back to the factory defaults.

To reset the access point, locate the reset button (hole) on the rear panel of the unit. With the access point powered on, use a paperclip to hold the button down for 10 seconds. Release the button and the access point will go through its reboot process. Wait about 30 seconds to access the access point. The default IP address is 192.168.0.50. When logging in, the username is Admin and leave the password box empty.

3. How to check your IP address?

After you install your network adapter, by default, the TCP/IP settings should be set to obtain an IP address from a DHCP server (i.e. wireless router) automatically. To verify your IP address, please follow the steps below.

Click on Start > Run. In the run box type cmd and click OK.

At the prompt, type ipconfig and press Enter.

This will display the IP address, subnet mask, and the default gateway of your adapter.

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your router. Some firewall software programs may block a DHCP request on newly installed adapters.

If you are connecting to a wireless network at a hotspot (e.g. hotel, coffee shop, airport), please contact an employee or administrator to verify their wireless network settings.

Technical Specifications

Standards

- IEEE 802.11n/g/b
- IEEE 802.3
- IEEE 802.3u

Network Management

- •Web Browser Interface
- HTTP Secure HTTP (HTTPS)

Security

- WPA-Personal & Enterprise
- WPA2-Personal & Enterprise
- WEP 64/128 bit Encryption
- 802.1X

Wireless Frequencyt

• 2.4 GHz to 2.4835 GHz

Operational Modes

- Access Point
- Wireless Distribution System
- Wireless Distribution System with AP
- Wireless Client
- Repeater
- WISP Repeater
- WISP Client

Antenna

Built-in 12 dBi directional Antenna

Maximum Transmit Power Ouput¹

• 27 dBm (500 mW)

Maximum Power Input

• 24V/0.5A

Maximum Power Consumption

• 10 watts

LEDs

- Wireless Signal Strength LED
- Power
- LAN
- Wireless

Operating Temperature

- Operating: -20 to 60 °C (-4 to 140 °F)
- Storage: -20 to 85 °C (-4 to 185 °F)

Humidity

- Operating: 0 to 90% (non-condensing)
- Storage: 5 to 95% (non-condensing)

Safety & Emissions

- FCC
- CE

Dimensions (L x W x H)

• 118 x 56 x 195 mm (4.64 x 2.2 x 7.67 inches)

¹Range will vary depending on country's maximum transmit power output regulation. Maximum wireless signal rate derived from IEEE Standard 802.11g and 802.11n 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 conditions will adversely affect wireless signal range.

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CE Mark Warning:

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

Antenna Pattern

