Overview

Models

HP AP8760 Dual Radio 802.11a/b/g Access Point JD016A

Key features

- Simultaneous 802.11a and 802.11b/g support
- PoE power/data via Category 5/6 data cables
- WPA/2, AES, TKIP, WEP packet encryption
- MAC address authentication/filtering
- WDS bridge and repeater configuration

Product overview

The HP AP8760 Dual Radio 802.11a/b/g Access Point is a fully featured, dual-radio PoE wireless solution for enterprises. Offering simultaneous IEEE 802.11a and 802.11b/g radio support, the AP8760 cost-effectively and securely provides high speeds of up to 108 Mbps in turbo mode, supporting up to 128 wireless users simultaneously. IEEE 802.1Q-compliant VLAN support and VPN passthrough combined with multiple SSID and security profiles enable flexible security design for different user groups, controls access to network resources, and segments user traffic. The AP8760 is a stand-alone AP managed via the Web or CLI interface. This access point can quickly be configured to support WDS for creating LAN to LAN or Building to Building connections.

Features and benefits

Management

- RADIUS accounting: logs all session details that can be used to generate usage reports or interface to a billing system
- SNMPv1, v2, and v3: provide complete support of SNMP; SNMPv3 supports increased security using encryption; provide full support of industry-standard MIBs plus private MIB extensions
- Rogue AP detection: regular scans for rogue APs help confirm that the network is secure
- Web interface: allows configuration of the access point from any Web browser on the network

Connectivity

- Auto-MDIX: automatically adjusts for straight-through or crossover cables on all 10/100 ports
- IEEE 802.3af Power over Ethernet (PoE) support: simplifies deployment and dramatically reduces installation costs by helping to eliminate the time and cost involved in supplying local power at each access point location
- 802.11af PoE: 802.11af 10/100 PoE injector is included
- International country configuration: selects the appropriate country, and the access point automatically configures operation to match regulatory requirements

Performance

- QoS and Multimedia: IEEE 802.11e Wi-Fi Multimedia (WMM) wireless QoS standard—when combined with wired QoS policies—provides end-to-end QoS, delivering different wireless channel competitiveness for different services

Mobility

- Detachable antenna design: enables use of external antenna configurations for improved radio coverage and performance

Layer 2 switching

Overview

- VLAN support and tagging: supports the IEEE 802.1Q (4094 VLAN IDs)

Security

- Secure access control by user: media access control (MAC)-based and IEEE 802.1X network access control centralize wireless security through existing Remote Authentication Dial-In User Service (RADIUS) servers to protect the network from unauthorized user access
- Secure access control: multiple authentication modes, including 802.1x, Web portal, MAC address and Point to Point Protocol over Ethernet (PPPoE) certify user identity and network integrity
- WPA2: the latest, toughest standards-based security—with Wi-Fi Protected Access 2 (WPA2), Advanced Encryption Standard (AES) encryption, Temporal Key Integrity Protocol (TKIP), and Wired Equivalency Protocol (WEP) for legacy clients—protects the network from unauthorized user access
- IEEE 802.1X: provides port-based user authentication with support for Extensible Authentication Protocol (EAP) MD5, TLS, TTLS, and PEAP with choice of AES, TKIP, and static or dynamic WEP encryption for protecting wireless traffic between authenticated clients and the access point
- Multiple security profiles:
  - store up to eight different security settings; up to four security profiles per radio

Technical features

- Interoperability: Wi-Fi Alliance certification prevents multivendor interoperability problems
- Bridging: AP can function as a bridge, supporting point-to-point, point-to-multipoint, and repeater modes, ensuring wireless connection to multiple buildings or networks and boosting a signal to a far-away client
- Radio technology: 802.11a and 802.11g standards enable wireless connectivity to 802.11a/b/g/n clients at speeds up to 54 Mb/s

Warranty and support

- 3-year warranty: with advance replacement and next-business-day delivery (available in most countries)
- Electronic and telephone support: limited electronic and telephone support is available from HP; refer to: www.hp.com/networking/warranty for details on the support provided and the period during which support is available
- Software releases: refer to: www.hp.com/networking/warranty for details on the software releases provided and the period during which software releases are available for your product(s)

Technical Specifications

HP AP8760 Dual Radio 802.11a/b/g Access Point (JD016A)

Ports	1 RJ-45 autosensing 10/100 PoE port (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3af PoE); Media Type: Auto-MDIX; Duplex: half or full	
AP characteristics	Radios	Dual (a/b/g)
	Radio operation modes	Client access, Local mesh, RF security
	AP operation modes	Autonomous
	Wi-Fi Alliance Certification*	a/b/g/n Wi-Fi Certified
	* HP access points and access devices are Wi-Fi Certified, providing our customers with the assurance that these products have met and passed the rigorous interoperability testing preformed by the Wi-Fi Alliance Organization. See the Specifications section of this series for more information.	
Physical characteristics	Dimensions	6.2(d) x 8.6(w) x 1.6(h) in. (15.75 x 21.84 x 4.06 cm)
	Weight	1.2 lb. (0.54 kg), Fully loaded
	Full configuration weight	1.2 lb. (0.54 kg)
	Enclosure	Indoor
Mounting	Wall/desktop & celing mount, screw kit, Quick Install Guide	
Environment	Operating temperature	14°F to 104°F (-10°C to 40°C)
	Operating relative humidity	5% to 95%, noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	5% to 95%, noncondensing
Electrical characteristics	Maximum power rating	7.2 W
	Antenna connector	(2) RP-SMA dual band
	Antenna	Dual antenna diversity
	Number of internal antennas	0
	Number of external antennas	2
Frequency band and Operating channels	2.4 - 2.83 GHz (11-13 channels) 5.15 - 5.8 GHz (24 channels)	
Radio	EN 300 328; EN 301-489-1; EN 301-489-17; EN 301 893 (EU); RSS-210, Issue 7; RSS-Gen, Issue 2	
Safety	EN 60950-1; EN 60601-1-2; CSA 60950-1; FCC Part 15, Subpart B; FCC Bulletin OET 65; FCC Part 15.247, 15.209, 15.207; FCC Oart 15 Subpart E	
Emissions	EN 60601-1-2; EN 301 489-1; EN 301 489-17; EN 50385; FCC Part 15, Subpart B; ANSI C63.4 2003; CFR 47 FCC Part 15.247, 15.205, 15.207, 15.209; EN 300 328; EN 301 893; FCC Part 15 Subpart E Section 15.207, 15.209, 15.407; FCC Bulletin OET 65; FCC 1.1310 and IC Safety Code 6; RSS-Gen (Issue 2, 2007); RSS-210 (Issue 7, 2007); CFR 47	
Medical	EN60601-1-2	
RF Exposure	FCC Bulletin OET-65C; EN 50385; FCC Part 15.247; RSS-210; EN 300-328	
Management	command-line interface; Web browser; SNMP Manager; Telnet; Microsoft Internet Explorer 5.5 / Netscape Navigator 6.0 or higher	
Notes	Frequency Band & Operating Channels vary by country.	

Technical Specifications

Services	Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

Radio characteristics: 802.11a

Modulation: Direct Sequence Spread Spectrum (DSSS) & Orthogonal Frequency Division Multiplexing (OFDM)

Data rate	6 Mbps	24 Mbps	54 Mbps
Receiver sensitivity	-87 dBm	-79 dBm	-71 dBm
Transmit power	18 dBm	18 dBm	16 dBm

Radio characteristics: 802.11b/g

Modulation: Direct Sequence Spread Spectrum (DSSS) & Orthogonal Frequency Division Multiplexing (OFDM)

Data rate	1 Mbps	6 Mbps	24 Mbps	54 Mbps
Receiver sensitivity	-95 dBm	-89 dBm	-81 dBm	-72 dBm
Transmit power	18 dBm	18 dBm	18 dBm	16 dBm

Standards and protocols (applies to all products in series)

General protocols

IEEE 802.11a/b/g Wireless Protocol
IEEE 802.11i Wireless Security
IEEE 802.1Q VLANs
IEEE 802.1X PAE
IEEE 802.3 Type 10BASE-T
IEEE 802.3ab 1000BASE-T
IEEE 802.3af Power over Ethernet
IEEE 802.3i 10BASE-T
IEEE 802.3u 100BASE-X

Mobility

IEEE 802.11a High Speed Physical Layer in the 5 GHz Band
IEEE 802.11b Higher-Speed Physical Layer Extension in the 2.4 GHz Band
IEEE 802.11d Global Harmonization
IEEE 802.11f Inter-Access Point Protocol (IAPP)
IEEE 802.11g Further Higher Data Rate Extension in the 2.4 GHz Band
IEEE 802.11i Medium Access Control (MAC) Security Enhancements

Security

IEEE 802.1X Port Based Network Access Control
WPA (Wi-Fi Protected Access)
WPA (Wi-Fi Protected Access)/WPA2

Accessories

HP AP8760 Dual Radio 802.11a/b/g Access Point accessories	Cables	
	HP X270 RSMA to SMA 15cm (6in) Antenna Cable	JD905A
	HP X270 Ultra Low Loss 1.8m (6ft) Antenna Cable	JD902A
	HP X270 Ultra Low Loss 6.1m (20ft) Antenna Cable	JD903A
	HP X270 Ultra Low Loss 15m (50ft) Antenna Cable	JD904A
	Wireless Antenna	
	HP 3/4dBi Dual Band Ceiling Mount Antenna	JD908A
	HP 6/8dBi Dual Band Hallway Antenna	JD910A
	HP 8/10dBi Dual Band Patch Antenna	JD911A
	HP 6/8dBi Dual Band Omni Antenna	JD907A
	HP 18/20dBi Dual Band Patch Antenna	JD909A

To learn more, visit: www.hp.com/networking