

Overview

HP Cloud-Managed 802.11n Dual Radio Access Point Series

Models

HP 350 Cloud-Managed Dual Radio 802.11n (WW) Access Point	JL011A
HP 355 Cloud-Managed Dual Radio 802.11n (WW) Access Point	JL013A
HP 350 Cloud-Managed Dual Radio 802.11n (JP) Access Point	JL067A
HP 350 Cloud-Managed Dual Radio 802.11n (US) Access Point	JL012A
HP 355 Cloud-Managed Dual Radio 802.11n (JP) Access Point	JL068A
HP 355 Cloud-Managed Dual Radio 802.11n (US) Access Point	JL014A

Key features

- 2.4GHz and 5GHz radio each with 2x2:2 or 3x3:3 MIMO
- Data rate up to 450 Mbps per radio with three spatial streams
- Built-in spectral analysis scans the 2.4GHz and 5 GHz bands to identify sources of RF interference
- Comprehensive WLAN security with intrusion detection offers threat protection
- Includes HP lifetime hardware warranty 2.0 with 24x7 phone support for three years at no cost

Introduction

The HP Cloud-Managed 802.11n Dual Radio Access Point Series provide two and three spatial access points offering enhanced coverage and reliability for voice and multi-media communications.

Built-in application awareness and Motion Aware roaming enhance the mobile user experience and help ensure peak application performance. HP Wi-Fi Clear Connect RF optimization and integrated wireless IDS/IPS provide automatic detection, classification, and mitigation of non-IEEE 802.11 interference and wireless threats. The access points can be powered by PoE and help ensure 100 percent uptime in case of WAN link failure. The access points work with HP Cloud Network Manager pay-as-you-use cloud service to provide a simple and easy-to-manage network solution for SMB, K–12, and remote offices. The solution provides enterprise-class reliability and performance and simplifies day-to-day operations by helping eliminate the need for onsite IT and brings users online faster.

Features and benefits

Management

Access point management

HP Cloud Network Manager is a cloud-based platform that enables you to manage your HP wireless network. Designed as a software-as-a-service (SAAS) subscription, Cloud Network Manager provides a standard web-based interface that allows you to configure and monitor multiple HP wireless networks from anywhere, provided you have a Internet connection.

• HP Wi-Fi Clear Connect

provides a system-wide approach to delivering WLAN reliability by proactively determining and adjusting to changing RF conditions; helps optimize WLAN performance by detecting interference from Wi-Fi and non-Wi-Fi sources—by using spectrum analysis capabilities built into the access points, identifying rogue activity and making decisions at a system-wide level

Advanced radio resource management

- Automatic radio power adjustments
 - include real-time power adjustments based on changing environmental conditions and signal coverage adjustment
- Automatic radio channel
 - provides intelligent channel switching and real-time interference detection
- Intelligent client load balancing





Overview

Determines the number of clients across neighboring APs and adjusts client allocation to balance the load

Airtime fairness

Provides equal RF transmission time for wireless clients

Spectrum analysis

- Power/frequency spectrum analysis Measures noise from IEEE 802.11 remote sources
- Signal detection/classification Identifies source of RF interference; for example, Bluetooth, cordless phones, and microwave ovens
- Evaluation of channel quality Helps detect severe channel degradation and improves the reporting of poor RF performance

AP and client troubleshooting

from the Cloud Network Manager dashboard, you see an overview of any access point or client that may need attention, flagged in an easy-to-read section. To check an alert on an individual AP or client, you can search by AP name, MAC address or serial number or any other attribute – and then click on the device for more detailed information.

• Enhanced AP survivability

your network stays available, since you have all the functionality you need locally, with no dependence on WAN links.

Quality of Service (QoS)

Wireless

Voice Network

when a client is associated to the Voice network, all data traffic is marked and placed into the high priority queue in QoS (Quality of Service).

○ Wi-Fi Multimedia Traffic Management (WMM)

WMM supports voice, video, best effort, and background access categories.

Connectivity

• 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

Direct DC power

APs can be powered directly by 12 VDC

Auto-MDIX

adjusts automatically for straight-through or crossover cables on the Ethernet interface

Mobility

• Three spatial stream MIMO technology

provides the latest in Wi-Fi technology (HP355), which allows for 450 Mb/s of signaling per radio; and delivers potentially more than a 50 percent increase in performance over any two spatial stream products

Beam forming

provides better coverage area and better performance at distances from the AP

Band steering

redirects 5 GHz-capable clients automatically to the less-congested 5 GHz spectrum

• Embedded antennas

• provides excellent coverage through use of embedded high-gain antennas 4.5dBi (HP 355) / 3.9dBi (HP 350) at 2.4 GHz and 5.5dBi (HP 355) / 4.3dBi (HP350) dBi antenna at 5 GHz); no need for the added cost of external antennas

• Anywhere, anytime wireless coverage

Per-radio software-selectable configuration of frequency bands; self-healing, self-optimizing local mesh that extends network availability; Wi-Fi Alliance Certifications for interoperability with all IEEE 802.11a/b/g/n client devices



Overview

WLAN SSID

Includes up to 16 SSIDs per radio, each with unique MAC address and configurable SSID broadcasts; individual security and QoS profiles per SSID

AP client access control functions

- o offers IEEE 802.1X authentication using EAP-SIM, EAP-FAST,
- delivers MAC address authentication using local or RADIUS access
- o provides RADIUS AAA using EAP-MD5, PAP, CHAP, and MS-CHAPv2
- o supports RADIUS Client (RFC 2865 and 2866) with location-aware

Security

Integrated IDS / IPS support

The Intrusion detection system (IDS) is a feature that monitors the network for the presence of unauthorized APs and clients. It also logs information about the unauthorized APs and clients, and generates reports based on the logged information. The Intrusion Protection System offers a wide selection of intrusion detection and protection features to protect the network against wireless threats.

• IEEE 802.1X support

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

Choice of IEEE 802.11i, WPA2, or WPA

locks out unauthorized wireless access by authenticating users prior to granting network access; robust Advanced Encryption Standard (AES) or Temporal Key Integrity Protocol (TKIP) encryption secures the data integrity of wireless traffic

• TKIP/WEP encryption

is supported only on legacy IEEE 802.11a/b/g clients as it has been deprecated from the IEEE 802.11n standard

Physical security

Kensington security slot

Warranty and support

• Lifetime Warranty 2.0

advance hardware replacement for as long as you own the product with next-business-day delivery (available in most countries).†

• Electronic and telephone support (for Lifetime Warranty 2.0)

limited 24x7 telephone support is available from HP for the first 3 years; limited electronic and business hours telephone support is available from HP for the entire warranty period; to reach our support centers, refer to www.hp.com/networking/contact-support; for details on the duration of support provided with your product purchase, refer to www.hp.com/networking/warrantysummary

Software releases

to find software for your product, refer to www.hp.com/networking/support; for details on the software releases available with your product purchase, refer to www.hp.com/networking/warrantysummary

tHP warranty includes repair or replacement of hardware for as long as you own the product, with next business day advance replacement (available in most countries). The disk drive included with HP AllianceOne Advanced Services and Services zl Modules, HP Threat Management Services zl Module, HP AllianceOne Extended zl Module with Riverbed Steelhead, HP MSM765 zl Mobility Controller and HP Survivable Branch Communication zl Module powered by Microsoft® Lync has a five-year hardware warranty. For details, refer to the Software license and hardware warranty statements at www.hp.com/networking/warranty.



Configuration

Build To Order:

BTO is a standalone unit with no integration. BTO products ship standalone are not part of a CTO or Rack-Shippable solution.

BTO Models

HP 350 Cloud-Managed 802.11n (WW) AP

See Configuration 1 RJ-45 autosensing 10/100/1000 port Note:2

HP 350 Cloud-Managed 802.11n (US) AP

See Configuration • 1 RJ-45 autosensing 10/100/1000 port

Note:1

JL012A

JL011A

HP 355 Cloud-Managed 802.11n (WW) AP

See Configuration 1 RJ-45 autosensing 10/100/1000 port

Note:2

JL013A

HP 355 Cloud-Managed 802.11n (US) AP

See Configuration 1 RJ-45 autosensing 10/100/1000 port

Note:1

JL014A

Configuration Rules:

Note 1 Only available in US. (Warning in Clic only)

Note 2 Not available US. (Warning in Clic only)

Access Point Options

External Power Supplies

HP 3xx AP Universal Power Supply JL017A

See Configuration Note:1

Configuration Rules:

This power supply is supported on the following Access Points: Note 1

> HP 350 Cloud-Managed 802.11n (WW) AP JL011A HP 350 Cloud-Managed 802.11n (US) AP JL012A HP 355 Cloud-Managed 802.11n (WW) AP JL013A HP 355 Cloud-Managed 802.11n (US) AP JL014A

Mounting Kit

HP 355/365 AP Wall Mount Kit JL019A

> See Configuration Note:2





Configuration

Configuration Rules:

Note 2 This Wall Mount Kit is supported on the following Access Points:

HP 355 Cloud-Managed 802.11n (WW) AP JL013A HP 355 Cloud-Managed 802.11n (US) AP JL014A

Licenses

System (std 0 // max 1) User Selection (min 0 // max 1) per Access Point

HP Cloud Network Manager 1 Year E-LTU JL020AAE

HP Cloud Network Manager 3 Year E-LTU JL021AAE



Technical Specifications

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I/O ports and slots 1 RJ-45 autosensing 10/100/1000 port (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE

802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only

-40°F to 158°F (-40°C to 70°C)

Additional ports and slots 1 RJ-45 serial console port

AP characteristics Radios (built-in) 802.11a/n, a/b/q/n

> Radio operation modes Client access, Local mesh, RF security

AP operation modes Cloud-managed Wi-Fi Alliance Certification a/b/g/n Wi-Fi Certified

Number of internal antennas

Physical characteristics Dimensions 5.91(w) x 5.91(d) x 1.63(h) in (15 x 15 x 4.15 cm)

> Weight 1.1 lb (0.5 kg) mounting bracket

Mounting and enclosure

Indoor, plenum rated; Includes 5/16" and 9/16" ceiling mounting clips

Environment 32°F to 104°F (0°C to 40°C) Operating temperature Operating relative humidity 5% to 95%, noncondensing

Storage temperature

Non-operating/

Non-operating/ 5% to 95%, noncondensing

Storage relative humidity

Electrical characteristics WW Country/Region

> Description IEEE 802.3af PoE compliant for Gigabit Ethernet

Maximum power rating

PoE power 10 W PoE

Frequency band and Operating channels

Americas 2.412 - 2.462 GHz (1 - 11 channels) 5.180 - 5.320 GHz (36 - 64 channels)

5.500 - 5.700 GHz (100 - 140 (excluding 5600-5670 MHz) channels)

5.745 - 5.825 GHz (149 - 165 channels)

European Union 2.412 - 2.472 GHz (1 - 13 channels)

5.180 - 5.320 GHz (36 - 64 channels)

5.500 - 5.700 GHz (100 - 140 (excluding 5600-5650 MHz) channels)

Rest of World (Actual channels 2.412 - 2.472 GHz (1 - 13 channels)

designated by selecting

5.180 - 5.320 GHz (36 - 64 channels) country in UI) 5.500 - 5.700 GHz (100 - 140 channels)

5.745 - 5.825 GHz (149 - 165 channels) 2.412 - 2.472 GHz (1 - 13 channels)

Japan

5.180 - 5.320 GHz (36 - 64 channels) 5.500 - 5.700 GHz (100 - 140 channels)

Radio FCC Part 15.247; IC RSS 210; RSS-210 (Canada); EN 300 328; EN 301-489-1; EN 301-489-17; EN 301 893

> (Europe); EU 1999/519/EC; RSS-Gen (Canada); ETS 301 893; TELEC 33B (Japan); OFTA (Hong Kong); MIC (Korea); DSPR (Japan); EN 300 328 (EU); OFTA approval (Hong Kong); MIC approval (Korea); EN 301 893 (EU); ETSI 301 893; ETSI 300 328; FCC Part 15.247 (no DFS); RSS-210, Issue 7; RSS-Gen, Issue 2; FCC Part

15.407; RSS-210, Issue 8; RSS-Gen, Issue 3; EN 301 893; RSS-210

Safety CE Labeled; CAN/CSA-C22.2 No.60950-00/UL 60950 - Third Edition, Safety Information for Technology

Equipment; CAN/CSA-C22.2 No. 60950-1; EN 301 489-17; EN 301 489-1; FCC Part 15, Subpart B; EN 300 328; EN 301 893; FCC Part 15.247, 15.209, 15.207; EU RoHS Compliant; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; AS/NZS 60950:2000 Australia, Russian GOST Safety Approval; EN 60950-1:2006+A11:2009+A1:2010+A12:2011; IEC 60950-1:2005, Amd 1:

2009



Technical Specifications

Emissions EN 300 489-1; EN 300 489-17; FCC Part 15.247; FCC Part 15.407; ICES-003 Class B; FCC Part 15, Subpart

B; EN 300 328; EN 301 893; FCC Part 15.247, 15.209, 15.207; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; AS/NZS 60950:2000 Australia, Russian GOST Safety Approval; EN 62311; ETS 301 893; ETS 301-398; EN 60950-1:2006+A11:2009+A1:2010+A12:2011

RF Exposure FCC Part 15.247; EN 300-328; ETS 301-398; ETS 301 893; To ensure compliance with various national

and international Electromagnetic Field (EMF) standards, this device should only be operated with HP-

approved antennas and accessories.; EN 62311

Features Dual radio: IEEE 802.11a/n for high-throughput applications and IEEE 802.11a/b/g/n for legacy support

and high-speed applications

• Both IEEE radios, supporting 2:2x2 MIMO reaching 300 Mbps per radio.

Both radios operate at full power and full performance on IEEE 802.3af PoE/Gigabit Ethernet

Notes Two spatial stream AP, supporting 300 Mbps per radio.

Maximum transmit power varies by country.

Regulatory model number: APIN103

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.

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I/O ports and slots 1 RJ-45 autosensing 10/100/1000 PoE port (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX,

IEEE 802.3ab Type 1000BASE-T, IEEE 802.3af PoE); Duplex: 10BASE-T/100BASE-TX: half or full;

1000BASE-T: full only

Additional ports and slots 1 RJ-45 serial console port

AP characteristics Radios (built-in) 802.11a/n, a/b/g/n

Radio operation modes Client access, Local mesh, Packet capture

AP operation modes Cloud-managed
Wi-Fi Alliance Certification a/b/g/n Wi-Fi Certified

Number of internal antennas 6

Physical characteristics Dimensions 7.09(w) x 7.09(d) x 1.77(h) in (18 x 18 x 4.5 cm)

Weight 1.43 lb (.65 kg) shipping weight mounting bracket

Mounting and enclosure Indoor, plenum rated; Includes 5/16" and 9/16" ceiling mounting clips

Environment Operating temperature 32°F to 122°F (0°C to 50°C)

Operating relative humidity 5% to 95%, noncondensing Non-operating/ -40°F to 158°F (-40°C to 70°C)

Storage temperature

Non-operating/ 5% to 95%, noncondensing

Storage relative humidity

Electrical characteristics Country/Region WW

Description IEEE 802.3af PoE compliant for Gigabit Ethernet

Maximum power rating 13 W PoE power 13 W PoE

Notes USB host port is disabled when using an 802.3af PoE power source; for

unrestricted operation with PoE power, use an 802.3at compliant source

 Frequency band and Operating channels
 Americas
 2.412 - 2.462 GHz (1 - 11 channels)

 5.180 - 5.320 GHz (36 - 64 channels)

5.500 - 5.700 GHz (100 - 140 (excluding 5600-5670 MHz) channels)

5.745 - 5.825 GHz (149 - 165 channels)

European Union 2.412 - 2.472 GHz (1 - 13 channels)





Technical Specifications

5.180 - 5.320 GHz (36 - 64 channels)

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301-489-17; EN 301 893 (Europe); EU 1999/519/EC; RSS-Gen (Canada); ETS 301 893; TELEC 33B (Japan); OFTA (Hong Kong); MIC (Korea); DSPR (Japan); EN 300 328 (EU); OFTA approval (Hong Kong); MIC approval (Korea); EN 301 893 (EU); ETSI 301 893; ETSI 300 328; FCC Part 15.247 (no DFS); RSS-210, Issue 7; RSS-Gen, Issue 2; NCCLP0002 (Taiwan); FCC Part 15.407 (no DFS); FCC Part 15.407; RSS-210,

Issue 8; RSS-Gen, Issue 3; EN 301 893

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Equipment; EN 301 489-17; EN 301 489-1; FCC Part 15, Subpart B; EN 300 328; EN 301 893; FCC Part 15.247, 15.209, 15.207; EU RoHS Compliant; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; AS/NZS 60950:2000 Australia, Russian GOST Safety Approval; EN

60950-1:2006+A11:2009+A1:2010+A12:2011; IEC 60950-1:2005, Amd 1: 2009

Emissions EN 300 489-1; EN 300 489-17; FCC Part 15.247; FCC Part 15.407; ICES-003 Class B; FCC Part 15, Subpart

B; EN 300 328; EN 301 893; FCC Part 15.247, 15.209, 15.207; EN 61000-4-2; EN 61000-4-3; EN 61000-4-4; EN 61000-4-5; EN 61000-4-6; EN 61000-4-11; AS/NZS 60950:2000 Australia, Russian GOST Safety Approval; EN 62311; ETS 301 893; ETS 301-398; EN 60950-1:2006+A11:2009+A1:2010+A12:2011

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Features Dual radio: IEEE 802.11a/n for high-throughput applications and IEEE 802.11a/b/g/n

for legacy support and high-speed applications

Both IEEE radios, supporting three spatial streams and 3x3 MIMO reaching 450 Mbps per radio.

Both radios operate at full power and full performance on IEEE 802.3af PoE/Gigabit Ethernet

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Notes Three spatial stream AP, supporting 450 Mbps per radio.

Maximum transmit power varies by country.

Services Refer to the HP website at www.hp.com/networking/services for details on the service-level

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Radio characteristics

HP 350 Cloud-Managed Dual Radio 802.11n (WW) Access Point (JL011A) HP 350 Cloud-Managed Dual Radio 802.11n (JP) Access Point (JL067A) HP 350 Cloud-Managed Dual Radio 802.11n (US) Access Point (JL012A)

Note: This transmit power data is EIRP and includes the embedded antennas.

IEEE 802.11n 5 GHz @	Data rate	MCS15 - 300	MCS8 - 30
40 MHz channel		Mbps Mbps	Mbps Mbps
	Receiver sensitivity	-69 dBm	-89 dBm
	Transmit power	23 dBm	27 dBm
IEEE 802.11n 5 GHz @	Data rate	MCS15 - 144	MCS8 - 14.4
20MHz channel		Mbps Mbps	Mbps Mbps





Technical Specifications

	Receiver sensitivity Transmit power	-73 dBm 23 dBm	-92 dBm 27 dBm		
IEEE 802.11n 2.4 GHz @ 40MHz channel	Data rate	MCS15 - 300 Mbps Mbps	MCS8 - 30 Mbps Mbps		
	Receiver sensitivity	-70 dBm	-86 dBm		
	Transmit power	23 dBm	27 dBm		
IEEE 802.11n 2.4 GHz @ 20MHz channel	Data rate	MCS15 - 144 Mbps Mbps	MCS8 - 14.4 Mbps Mbps		
	Receiver sensitivity	-73 dBm	-88 dBm		
	Transmit power	23 dBm	27 dBm		
IEEE 802.11b/g 2.4 GHz	Data rate	54 Mbps	11 Mbps	6 Mbps	1 Mbps
	Receiver sensitivity	-76 dBm	-91 dBm	-88 dBm	-93 dBm
	Transmit power	25 dBm	27 dBm	27 dBm	27 dBm
IEEE 802.11a 5GHz	Data rate	6 Mbps Mbps	6 Mbps Mbps		
	Receiver sensitivity	-92 dBm	-76 dBm		
	Transmit power	27 dBm	25 dBm		

Radio characteristics

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Note: This transmit power data is EIRP and includes the embedded antennas.

IEEE 802.11n 5GHz @ 40MHz channel	Data rate Receiver sensitivity Transmit power	MCS23 - 450 Mbps Mbps -67 dBm 24 dBm	MCS16 - 45 Mbps Mbps -88 dBm 29 dBm
IEEE 802.11n 5GHz @ 20MHz channel	Data rate Receiver sensitivity Transmit power	MCS23 - 216 Mbps Mbps -71 dBm 24 dBm	MCS16 - 21.6 Mbps Mbps -92 dBm 29 dBm
IEEE 802.11n 2.4 GHz @ 40MHz channel	Data rate Receiver sensitivity Transmit power	MCS23 - 450 Mbps Mbps -69 dBm 25 dBm	MCS16 - 45 Mbps Mbps -90 dBm 29 dBm
IEEE 802.11n 2.4 GHz @ 20MHz channel	Data rate Receiver sensitivity Transmit power	MCS23 - 216 Mbps Mbps -73 dBm 25 dBm	MCS16 - 21.6 Mbps Mbps -93 dBm 29 dBm



Technical Specifications

IEEE 802.11a/g 5GHz	Data rate	6 Mbps Mbps	54 Mbps Mbps
	Receiver sensitivity	-92 dBm	-74 dBm
	Transmit power	30 dBm	26 dBm
IEEE 802.11a/g 2.4GHz	Data rate	6 Mbps Mbps	54 Mbps Mbps
	Receiver sensitivity	-93 dBm	-76 dBm
	Transmit power	30 dBm	27 dBm
IEEE 802.11b 2.4GHz	Data rate	1 Mbps Mbps	11 Mbps Mbps
	Receiver sensitivity	-97 dBm	-88 dBm
	Transmit power	32 dBm	32 dBm

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MCS Index	800 nS Gua	nrd Interval	400 nS Gua	ord Interval
	20 MHz Rate (Mbps)	40 MHz Rate (Mbps)	20 MHz Rate (Mbps)	40 MHz Rate (Mbps)
0	6.5	13.5	7.2	15
1	13	27	14.4	30
2	19.5	40.5	21.7	45
3	26	54	28.9	60
4	39	81	43.3	90
5	52	108	57.8	120
6	58.5	121.5	65	135
7	65	135	72.2	150
8	13	27	14.4	30
9	26	54	28.9	60
10	39	81	43.3	90
11	52	108	57.8	120
12	78	162	86.7	180
13	104	216	115.6	240
14	117	243	130	270
15	130	270	144.4	300
16	19.5	40.5	21.7	45
17	39	81	43.4	90
18	58.5	121.5	65	135
19	78	162	86.7	180
20	117	243	130	270
21	156	324	173,3	360
22	175.5	364.5	195	405
23	195	405	216.7	450

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MCS Index 800 nS Guard Interval 400 nS Guard Interval





Technical Specifications

	20 MHz Rate (Mbps)	40 MHz Rate (Mbps)	20 MHz Rate (Mbps)	40 MHz Rate (Mbps)
0	6.5	13.5	7.2	15
1	13	27	14.4	30
2	19.5	40.5	21.7	45
3	26	54	28.9	60
4	39	81	43.3	90
5	52	108	57.8	120
6	58.5	121.5	65	135
7	65	135	72.2	150
8	13	27	14.4	30
9	26	54	28.9	60
10	39	81	43.3	90
11	52	108	57.8	120
12	78	162	86.7	180
13	104	216	115.6	240
14	117	243	130	270
15	130	270	144.4	300
16	19.5	40.5	21.7	45
17	39	81	43.4	90
18	58.5	121.5	65	135
19	78	162	86.7	180
20	117	243	130	270
21	156	324	173.3	360
22	175.5	364.5	195	405
23	195	405	216.7	450

Standards and Protocols

(applies to all products in series)

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 802.11g Further Higher Data Rate Extension in the 2.4 GHz Band

IEEE 802.11i Medium Access Control (MAC) Security Enhancements

IEEE 802.11n WLAN Enhancements for Higher Throughput





Accessories

HP Cloud-Managed 802.11n Dual Radio Access Point Series accessories

Power Supply	
HP 1-port Power Injector	J9407B
HP 3xx Cloud-Managed Access Point Universal Power Supply	JL017A
HP Single-Port 802.3at Gigabit PoE In-Line Power Supply	J9867A
HP 350 Cloud-Managed Dual Radio 802.11n (WW) Access Point (JL011A)	
HP 350 Cloud-Managed Access Point Wall Mount Kit	JL018A
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To learn more, visit www.hp.com/networking

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