HP A-802.11n Access Point Series

Data sheet

Product overview

In enterprise headquarters, branch offices, or campus networks, the HP A-802.11n Access Point Series is an outstanding choice for secure, reliable radio-based connections. These WLAN access points extend mobile access to wired networks, broadening system capacity and providing seamless integration between wired and wireless networks. The single-radio dual-band HP A-WA2612 and A-WA2610E Access Points use the 2.4 or 5 GHz band; the dual-radio dual-band A-WA2620E and A-WA2620 Access Points operate simultaneously on both bands. All of the APs support IEEE 802.11a/b/g/n, can handle up to 64 users per radio, and offer connections up to 300 Mbps when using the 802.11n standard. Employing these products as "fit" APs with an HP A series wireless access controller greatly facilitates network administration, allowing centralized management and automatic software upgrades—especially useful in large networks with many APs—while reducing network maintenance and administration resource requirements.

Key features

- High throughput
- Centralized access point management
- Automatic access point version upgrades
- IPv4/IPv6 dual stack
- EAD wireless client access

Features and benefits

Management

- **Centralized access point management:** if the A-WA2600 series access point is used with an AC, most of management and data frames are processed by the AC; the AC controls all Fit APs by using the CAPWAP so that the status of all devices can be clearly known; compared to a traditional Fat AP, a Fit AP and an AC greatly help system administrators manage the whole network
- **Automatic access point version upgrades:** The A-WA2600 access points can automatically communicate with the AC in a network, as well as download the latest software versions to the access point; such operations do not require manual intervention, and therefore reduce network maintenance; this feature is especially important to large-sized networks

Connectivity

- **Auto Channel Select (ACS):** helps reduce radio co-channel interference by automatically selecting an unoccupied radio channel
- **IEEE 802.11h International Telecommunication Union (ITU) compliant:** employs Dynamic Frequency Selection (DFS) to automatically select another channel and adjust transmit power to reduce interference with systems such as radar, if detected on that same channel

Performance

- **High throughput:** the A-WA2600 wireless APs are compatible with latest IEEE 802.11n standard; the single-radio APs support wireless access rates as much as 300 Mbps, which is six times more than that of the traditional IEEE 802.11a/b/g products
- **Dual stack:** IPv4 and IPv6 support future-proofs the wireless network against obsolescence
- **Gigabit Ethernet interface:** provides a connection to the network that eliminates the network as a bottleneck
- **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
- **Local forwarding:** provides efficient data transmission and prevents the controller from being a performance bottleneck
- **Intelligent load balancing:** effectively balances users between APs, increasing the capacity of the radio network

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 user isolation:** virtual AP services enable the network administrator to provide specific services for different user groups, improving bandwidth and system resources and simplifying network maintenance and management
- **Secure access by location:** location AP-based user access control helps ensure that wireless users can access and authenticate only to preselected APs, enabling system administrators to control the locations where a wireless user can access the network
- **Endpoint Admission Defense (EAD):** integrated wired and wireless EAD helps ensure that only wireless clients who comply with mandated enterprise security policies access the network, reducing threat levels by infected wireless clients and improving the overall security of the wireless network
- **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

Ease of use

- **Ease of deployment:** management via the wireless controller eliminates the need to manage each AP individually
- **Aesthetics:** A-WA2612 and A-WA2620 access points designed with embedded antennas expand installation options and improve aesthetics
- **Optional antenna connectors:** provide optional external antenna connections for installations that require further distances or more ideal antenna placement (not supported on the A-WA2612 access point)

- **Power over Ethernet:** power via standards-based PoE source eliminates the need to run costly power outlets at the access point; the exception is the WA2620E access point, which requires a PoE+ power supply

Technical features

- **Radio technology:** IEEE 802.11a/n and 802.11g/n standards enable high-speed access from IEEE 802.11a/b/g/n clients at speeds up to 300 Mbps and cover a wide coverage area
- **Radio flexibility:** single and dual radio access points allow customers to deploy what fits their needs
- **Interoperability:** Wi-Fi Alliance certification prevents multivendor interoperability problems
- **Backwards compatibility:** supports high speeds while protecting existing investments
- **Multiple-Input Multiple-Output (MIMO):** advanced Multiple Input Multiple Output (MIMO) technology provides enhanced wireless range and coverage area for improved roaming and performance
- **High user capacity:** supports up to 64 wireless users per radio and is interoperable with all A series wireless controllers, enabling robust networking and flexible deployment options
- **Virtual Access Point (VAP):** VAP services enable network administrators to provide specific services for different user groups, improving bandwidth and system resources; each radio supports up to 16 VAPs
- **Wireless user isolation:** features enforce wireless user login policies to maintain secure, system-wide authentication

Warranty and support

- **1-year warranty:** with advance replacement and 30-calendar-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)

Specifications

	HP A-WA2612 Single Radio 802.11n Access Point (JD445A)	HP A-WA2620-AGN Dual Radio 802.11n FIT Access Point (WW) (JD472A)
Ports	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 1 RJ-45 serial console (only for debugging) port	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 1 RJ-45 serial console (only for debugging) port
AP characteristics		
Radios	Single (n/a/b/g)	Dual (n/a/b/g)
AP operation modes	Controlled	Controlled
Wi-Fi Alliance Certification	a/b/g/n Wi-Fi Certified	a/b/g/n Wi-Fi Certified
Physical characteristics		
Dimensions	2.36(h) in. (6 cm)	7.76(d) x 7.76(w) x 1.77(h) in. (19.7 x 19.7 x 4.5 cm)
Weight	1.1 lb. (0.5 kg)	2.2 lb. (1 kg)
Base diameter	7.48 in. (19 cm)	
Enclosure	Indoor	Indoor
Memory and processor		
Processor	Atheros @ 400 MHz, 128 MB SDRAM, 16 MB flash	Atheros @ 600 MHz, 128 MB SDRAM, 16 MB flash
Performance		
MAC address table size	255 entries	255 entries
Environment		
Operating temperature	14°F to 131°F (-10°C to 55°C)	32°F to 113°F (0°C to 45°C)
Operating relative humidity	5% to 95%, noncondensing	5% to 95%, noncondensing
Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Nonoperating/Storage relative humidity	5% to 95%, noncondensing	5% to 95%, noncondensing
Electrical characteristics		
Maximum heat dissipation	34 BTU/hr (35.87 kJ/hr)	44 BTU/hr (46.42 kJ/hr)
Maximum power rating	10 W	13 W
Power Inputs	IEEE 802.3af PoE compliant for Gigabit Ethernet port	IEEE 802.3af PoE compliant for Gigabit Ethernet port
Antenna connector	none	3 RP-SMA (optional for JD455A)
Antenna	Three built-in dual-band antennas (3 x 3 MIMO), 5.5 dBi @ 2.4 GHz, 5.1 dBi @ 5.2 GHz, 8.0 dBi @ 5.8 GHz	2 x 3 MIMO, 4.0 dBi @ 2.4 GHz, 3.3dBi @ 5.2 GHz, 3.0 dBi @ 5.8 GHz
Number of internal antennas	3	6
Number of external antennas	0	3
Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers.	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers.
Frequency band and operating channels		
FCC	2.412 - 2.472 GHz (1 - 11 channels) 5.180 - 5.240 GHz (36 - 48 channels) 5.260 - 5.320 GHz (52 - 64 channels) 5.500 - 5.700 GHz (100 - 116, 132, 136 140 channels) 5.745 - 5.825 GHz (149 - 165 channels)	2.412 - 2.472 GHz (1 - 11 channels) 5.180 - 5.240 GHz (36 - 48 channels) 5.260 - 5.320 GHz (52 - 64 channels) 5.500 - 5.700 GHz (100 - 140 channels) 5.745 - 5.825 GHz (149 - 165 channels)
EN	2.412 - 2.472 GHz (1 - 13 channels) 5.180 - 5.240 GHz (36 - 48 channels) 5.260 - 5.320 GHz (52 - 64 channels) 5.500 - 5.700 GHz (100 - 140 channels)	2.412 - 2.472 GHz (1 - 13 channels) 5.180 - 5.240 GHz (36 - 48 channels) 5.260 - 5.320 GHz (52 - 64 channels) 5.500 - 5.700 GHz (100 - 140 channels)
Radio	FCC Part 15.247; EN 300 328; EN 301 893 (EU); RSS-210, Issue 7; RSS-Gen, Issue 2; FCC Part 15.407	FCC Part 15.247; EN 300 328; EN 301 893 (EU); RSS-210, Issue 7; RSS-Gen, Issue 2; FCC Part 15.407
Safety	UL 60950-1; EN 60950-1; IEC 60950-1:2001 (with CB Report); CAN/CSA-C22.2 No. 60950-1	UL 60950-1; EN 60950-1; IEC 60950-1:2001 (with CB Report); CAN/CSA-C22.2 No. 60950-1
Emissions	ANSI C63.4; FCC Part 15	ANSI C63.4; FCC Part 15
Immunity		
EN	EN 301 489-1; EN 301 489-17	EN 301 489-1; EN 301 489-17
Medical		
	EN60601-1-2	EN60601-1-2
RF Exposure	FCC Bulletin OET-65C; RSS-102; EN 50385	FCC Bulletin OET-65C; RSS-102; EN 50385
Management	The 11n FIT APs can be managed by A series access controllers.	The 11n FIT APs can be managed by A series access controllers.
Notes	Maximum transmit power varies by country.	Maximum transmit power varies by country.

Specifications (continued)

	HP A-WA2612 Single Radio 802.11n Access Point (JD445A)	HP A-WA2620-AGN Dual Radio 802.11n FIT Access Point (WW) (JD472A)
Services	3-year, parts only, global next-day advance exchange (UW931E) 3-year, 4-hour onsite, 13x5 coverage for hardware (UW932E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UW935E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UW938E) 3-year, 24x7 SW phone support, software updates (UW941E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UW933E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UW936E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW939E) 4-year, 24x7 SW phone support, software updates (UW942E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UW934E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UW937E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW940E) 5-year, 24x7 SW phone support, software updates (UW943E) 3 Yr 6 hr Call-to-Repair Onsite (UW944E) 4 Yr 6 hr Call-to-Repair Onsite (UW945E) 5 Yr 6 hr Call-to-Repair Onsite (UW946E) 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.	3-year, parts only, global next-day advance exchange (UW931E) 3-year, 4-hour onsite, 13x5 coverage for hardware (UW932E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UW935E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UW938E) 3-year, 24x7 SW phone support, software updates (UW941E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UW933E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UW936E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW939E) 4-year, 24x7 SW phone support, software updates (UW942E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UW934E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UW937E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW940E) 5-year, 24x7 SW phone support, software updates (UW943E) 3 Yr 6 hr Call-to-Repair Onsite (UW944E) 4 Yr 6 hr Call-to-Repair Onsite (UW945E) 5 Yr 6 hr Call-to-Repair Onsite (UW946E) 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.

Specifications (continued)

HP A-WA2612 Single Radio 802.11n Access Point (JD445A) | **HP A-WA2620-AGN Dual Radio 802.11n FIT Access Point (WW) (JD472A)**

Radio characteristics:

IEEE 802.11b/g/n, IEEE 802.11a/n (A-WA2612 access point)

Modulation: OFDM: BPSK @ 6/9 Mbps, QPSK @ 12/18 Mbps, 16-QAM @ 24 Mbps, 64-QAM @ 48/54 Mbps DSSS: DBPSK @ 1 Mbps, DQPSK @ 2 Mbps, and CCK @ 5.5/11 Mbps
MIMO-OFDM: BPSK, QPSK, 16QAM, and 64QAM

Data rate	IEEE 802.11n 5 GHz @ 20 MHz-MCS0 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS7 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS8 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS15 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS0 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS7 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS8 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS15 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS0 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS7 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS8 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS15 Mbps
Receiver sensitivity	-94 dBm	-74 dBm	-94 dBm	-74 dBm	-88 dBm	-72 dBm	-88 dBm	-72 dBm	-94 dBm	-74 dBm	-94 dBm	-74 dBm
Transmit power	17 dBm	10 dBm	17 dBm	10 dBm	17 dBm	10 dBm	17 dBm	10 dBm	19 dBm	11 dBm	19 dBm	11 dBm

Data rate	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS0 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS7 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS8 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS15 Mbps	IEEE 802.11a-6 Mbps	IEEE 802.11a-54 Mbps	IEEE 802.11b-1 Mbps	IEEE 802.11b-11 Mbps	IEEE 802.11g-6 Mbps	IEEE 802.11g-54 Mbps
Receiver sensitivity	-88 dBm	-72 dBm	-88 dBm	-72 dBm	-92 dBm	-76 dBm	-94 dBm	-88 dBm	-92 dBm	-76 dBm
Transmit power	19 dBm	11 dBm	19 dBm	11 dBm	17 dBm	13 dBm	19 dBm	19 dBm	17 dBm	15 dBm

IEEE 802.11b/g/n, IEEE 802.11a/n (A-WA2620 access point)

Modulation: OFDM: BPSK @ 6/9 Mbps, QPSK @ 12/18 Mbps, 16-QAM @ 24 Mbps, 64-QAM @ 48/54 Mbps DSSS: DBPSK @ 1 Mbps, DQPSK @ 2 Mbps, and CCK @ 5.5/11 Mbps
MIMO-OFDM: BPSK, QPSK, 16QAM, and 64QAM

Data rate	IEEE 802.11n 5 GHz @ 20 MHz-MCS0 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS7 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS8 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS15 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS0 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS7 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS8 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS15 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS0 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS7 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS8 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS15 Mbps
Receiver sensitivity	-94 dBm	-74 dBm	-94 dBm	-74 dBm	-88 dBm	-72 dBm	-88 dBm	-72 dBm	-94 dBm	-74 dBm	-94 dBm	-74 dBm
Transmit power	16 dBm	12 dBm	15 dBm	13 dBm	15 dBm	13 dBm	15 dBm	13 dBm	16 dBm	14 dBm	16 dBm	14 dBm

Data rate	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS0 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS7 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS8 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS15 Mbps	IEEE 802.11a-6 Mbps	IEEE 802.11a-54 Mbps	IEEE 802.11b-1 Mbps	IEEE 802.11b-11 Mbps	IEEE 802.11g-6 Mbps	IEEE 802.11g-54 Mbps
Receiver sensitivity	-88 dBm	-72 dBm	-88 dBm	-72 dBm	-92 dBm	-76 dBm	-94 dBm	-88 dBm	-92 dBm	-76 dBm
Transmit power	16 dBm	14 dBm	16 dBm	14 dBm	18 dBm	16 dBm	19 dBm	19 dBm	19 dBm	17 dBm

IEEE 802.11b/g/n, IEEE 802.11a/n (A-WA2610E access point)

Modulation: OFDM: BPSK @ 6/9 Mbps, QPSK @ 12/18 Mbps, 16-QAM @ 24 Mbps, 64-QAM @ 48/54 Mbps DSSS: DBPSK @ 1 Mbps, DQPSK @ 2 Mbps, and CCK @ 5.5/11 Mbps
MIMO-OFDM: BPSK, QPSK, 16QAM, and 64QAM

Data rate	IEEE 802.11n 5 GHz @ 20 MHz-MCS0 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS7 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS8 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS15 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS0 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS7 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS8 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS15 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS0 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS7 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS8 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS15 Mbps
Receiver sensitivity	-94 dBm	-74 dBm	-94 dBm	-74 dBm	-88 dBm	-72 dBm	-88 dBm	-72 dBm	-94 dBm	-74 dBm	-94 dBm	-74 dBm
Transmit power	18 dBm	12 dBm	18 dBm	12 dBm	18 dBm	12 dBm	18 dBm	12 dBm	18 dBm	11 dBm	18 dBm	11 dBm

Data rate	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS0 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS7 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS8 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS15 Mbps	IEEE 802.11a-6 Mbps	IEEE 802.11a-54 Mbps	IEEE 802.11b-1 Mbps	IEEE 802.11b-11 Mbps	IEEE 802.11g-6 Mbps	IEEE 802.11g-54 Mbps
Receiver sensitivity	-88 dBm	-72 dBm	-88 dBm	-72 dBm	-92 dBm	-76 dBm	-94 dBm	-88 dBm	-92 dBm	-76 dBm
Transmit power	18 dBm	11 dBm	18 dBm	11 dBm	18 dBm	14 dBm	18 dBm	18 dBm	18 dBm	15 dBm

IEEE 802.11b/g/n, IEEE 802.11a/n (A-WA2620E access point)

Modulation: OFDM: BPSK @ 6/9 Mbps, QPSK @ 12/18 Mbps, 16-QAM @ 24 Mbps, 64-QAM @ 48/54 Mbps DSSS: DBPSK @ 1 Mbps, DQPSK @ 2 Mbps, and CCK @ 5.5/11 Mbps
MIMO-OFDM: BPSK, QPSK, 16QAM, and 64QAM

Data rate	IEEE 802.11n 5 GHz @ 20 MHz-MCS0 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS7 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS8 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS15 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS0 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS7 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS8 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS15 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS0 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS7 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS8 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS15 Mbps
Receiver sensitivity	-94 dBm	-74 dBm	-94 dBm	-74 dBm	-88 dBm	-72 dBm	-88 dBm	-72 dBm	-94 dBm	-74 dBm	-94 dBm	-74 dBm
Transmit power	18 dBm	12 dBm	18 dBm	12 dBm	18 dBm	12 dBm	18 dBm	12 dBm	18 dBm	11 dBm	18 dBm	11 dBm

Data rate	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS0 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS7 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS8 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS15 Mbps	IEEE 802.11a-6 Mbps	IEEE 802.11a-54 Mbps	IEEE 802.11b-1 Mbps	IEEE 802.11b-11 Mbps	IEEE 802.11g-6 Mbps	IEEE 802.11g-54 Mbps
Receiver sensitivity	-88 dBm	-72 dBm	-88 dBm	-72 dBm	-92 dBm	-76 dBm	-94 dBm	-88 dBm	-92 dBm	-76 dBm
Transmit power	18 dBm	11 dBm	18 dBm	11 dBm	18 dBm	14 dBm	18 dBm	18 dBm	18 dBm	15 dBm

Specifications (continued)

	HP A-WA2612 Single Radio 802.11n Access Point (JD445A)	HP A-WA2620-AGN Dual Radio 802.11n FIT Access Point (WW) (JD472A)

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

HP A-WA2612 Single Radio 802.11n Access Point (JD445A)

MCS Index	800 ns Guard Interval		400 ns Guard 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	157.5
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

HP A-WA2620-AGN Dual Radio 802.11n FIT Access Point (WW) (JD472A)

MCS Index	800 ns Guard Interval		400 ns Guard 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	157.5
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

Specifications (continued)

	 HP A-WA2610E-AGN Single Radio 802.11n Plenum FIT Access Point (WW) (JD452A)	 HP A-WA2620E-AGN Dual Radio 802.11n Plenum FIT Access Point (WW) (JD453A)
Ports	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 1 RJ-45 serial console (only for debugging) port	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 1 RJ-45 serial console (only for debugging) port
AP characteristics		
Radios	Single (n/a/b/g)	Dual (n/a/b/g)
AP operation modes	Controlled	Controlled
Wi-Fi Alliance Certification	a/b/g/n Wi-Fi Certified	a/b/g/n Wi-Fi Certified
Physical characteristics		
Dimensions	8.27(d) x 5.91(w) x 1.38(h) in. (21 x 15 x 3.5 cm)	8.27(d) x 5.91(w) x 1.38(h) in. (21 x 15 x 3.5 cm)
Weight	2.65 lb. (1.2 kg)	2.87 lb. (1.3 kg)
Enclosure	Indoor, plenum	Indoor, plenum
Memory and processor		
Processor	CAVIUM @ 400 MHz, 128 MB SDRAM, 16 MB flash	CAVIUM @ 400 MHz, 128 MB SDRAM, 16 MB flash
Performance		
MAC address table size	255 entries	255 entries
Environment		
Operating temperature	14°F to 149°F (-10°C to 65°C)	14°F to 149°F (-10°C to 65°C)
Operating relative humidity	5% to 95%, noncondensing	5% to 95%, noncondensing
Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Nonoperating/Storage relative humidity	5% to 95%, noncondensing	5% to 95%, noncondensing
Electrical characteristics		
Maximum heat dissipation	44 BTU/hr (46.42 kJ/hr)	55 BTU/hr (58.03 kJ/hr)
Maximum power rating	13 W	16 W
Power Inputs	IEEE 802.3af PoE compliant for Gigabit Ethernet port	IEEE 802.3at PoE+ compliant for Gigabit Ethernet port
Antenna connector	3 RP-SMA	6 RP-SMA
Antenna	3 x 3 MIMO, 2 dBi @ 2.4 GHz, 3 dBi @ 5.2 GHz, 3 dBi @ 5.8 GHz omnidirectional	3 x 3 MIMO, 2 dBi @ 2.4 GHz, 3 dBi @ 5.2 GHz, 3 dBi @ 5.8 GHz omnidirectional
Number of external antennas	3	6
Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers.	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers.
Frequency band and operating channels		
FCC	2.412 - 2.472 GHz (1 - 11 channels) 5.180 - 5.240 GHz (36 - 48 channels) 5.260 - 5.320 GHz (52 - 64 channels) 5.500 - 5.700 GHz (100 - 116, 132, 136 140 channels) 5.745 - 5.825 GHz (149 - 165 channels)	2.412 - 2.472 GHz (1 - 11 channels) 5.180 - 5.240 GHz (36 - 48 channels) 5.260 - 5.320 GHz (52 - 64 channels) 5.500 - 5.700 GHz (100 - 116, 132, 136 140 channels) 5.745 - 5.825 GHz (149 - 165 channels)
EN	2.412 - 2.472 GHz (1 - 13 channels) 5.180 - 5.240 GHz (36 - 48 channels) 5.260 - 5.320 GHz (52 - 64 channels) 5.500 - 5.700 GHz (100 - 140 channels)	2.412 - 2.472 GHz (1 - 13 channels) 5.180 - 5.240 GHz (36 - 48 channels) 5.260 - 5.320 GHz (52 - 64 channels) 5.500 - 5.700 GHz (100 - 140 channels)
Radio	FCC Part 15.247; EN 300 328; EN 301 893 (EU); RSS-210, Issue 7; RSS-Gen, Issue 2; FCC Part 15.407	FCC Part 15.247; EN 300 328; EN 301 893 (EU); RSS-210, Issue 7; RSS-Gen, Issue 2; FCC Part 15.407
Safety	UL 2043; UL 60950-1; EN 60950-1; IEC 60950-1:2001 (with CB Report); CAN/CSA-C22.2 No. 60950-1	UL 2043; UL 60950-1; EN 60950-1; IEC 60950-1:2001 (with CB Report); CAN/CSA-C22.2 No. 60950-1
Emissions	ANSI C63.4; FCC Part 15	ANSI C63.4; FCC Part 15
Immunity		
EN	EN 301 489-1; EN 301 489-17	EN 301 489-1; EN 301 489-17
Medical		
	EN60601-1-2	EN60601-1-2
RF Exposure	FCC Bulletin OET-65C; RSS-102	FCC Bulletin OET-65C; RSS-102
Management	The 11n FIT APs can be managed by A series access controllers.	The 11n FIT APs can be managed by A series access controllers.
Notes	Maximum transmit power varies by country.	Maximum transmit power varies by country.

Specifications (continued)

	HP A-WA2610E-AGN Single Radio 802.11n Plenum FIT Access Point (WW) (JD452A)	HP A-WA2620E-AGN Dual Radio 802.11n Plenum FIT Access Point (WW) (JD453A)
Services	3-year, parts only, global next-day advance exchange (UW931E) 3-year, 4-hour onsite, 13x5 coverage for hardware (UW932E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UW935E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UW938E) 3-year, 24x7 SW phone support, software updates (UW941E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UW933E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UW936E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW939E) 4-year, 24x7 SW phone support, software updates (UW942E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UW934E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UW937E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW940E) 5-year, 24x7 SW phone support, software updates (UW943E) 3 Yr 6 hr Call-to-Repair Onsite (UW944E) 4 Yr 6 hr Call-to-Repair Onsite (UW945E) 5 Yr 6 hr Call-to-Repair Onsite (UW946E) 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.	3-year, parts only, global next-day advance exchange (UW931E) 3-year, 4-hour onsite, 13x5 coverage for hardware (UW932E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UW935E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UW938E) 3-year, 24x7 SW phone support, software updates (UW941E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UW933E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UW936E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW939E) 4-year, 24x7 SW phone support, software updates (UW942E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UW934E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UW937E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW940E) 5-year, 24x7 SW phone support, software updates (UW943E) 3 Yr 6 hr Call-to-Repair Onsite (UW944E) 4 Yr 6 hr Call-to-Repair Onsite (UW945E) 5 Yr 6 hr Call-to-Repair Onsite (UW946E) 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.

Specifications (continued)

HP A-WA2610E-AGN Single Radio 802.11n Plenum FIT Access Point (WW) (JD452A)

HP A-WA2620E-AGN Dual Radio 802.11n Plenum FIT Access Point (WW) (JD453A)

Radio characteristics:

IEEE 802.11b/g/n, IEEE 802.11a/n (A-WA2612 access point)

Modulation: OFDM: BPSK @ 6/9 Mbps, QPSK @ 12/18 Mbps, 16-QAM @ 24 Mbps, 64-QAM @ 48/54 Mbps DSSS: DBPSK @ 1 Mbps, DQPSK @ 2 Mbps, and CCK @ 5.5/11 Mbps
MIMO-OFDM: BPSK, QPSK, 16QAM, and 64QAM

Data rate	IEEE 802.11n 5 GHz @ 20 MHz-MCS0 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS7 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS8 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS15 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS0 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS7 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS8 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS15 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS0 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS7 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS8 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS15 Mbps
Receiver sensitivity	-94 dBm	-74 dBm	-94 dBm	-74 dBm	-88 dBm	-72 dBm	-88 dBm	-72 dBm	-94 dBm	-74 dBm	-94 dBm	-74 dBm
Transmit power	17 dBm	10 dBm	17 dBm	10 dBm	17 dBm	10 dBm	17 dBm	10 dBm	19 dBm	11 dBm	19 dBm	11 dBm

Data rate	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS0 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS7 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS8 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS15 Mbps	IEEE 802.11a-6 Mbps	IEEE 802.11a-54 Mbps	IEEE 802.11b-1 Mbps	IEEE 802.11b-11 Mbps	IEEE 802.11g-6 Mbps	IEEE 802.11g-54 Mbps
Receiver sensitivity	-88 dBm	-72 dBm	-88 dBm	-72 dBm	-92 dBm	-76 dBm	-94 dBm	-88 dBm	-92 dBm	-76 dBm
Transmit power	19 dBm	11 dBm	19 dBm	11 dBm	17 dBm	13 dBm	19 dBm	19 dBm	17 dBm	15 dBm

IEEE 802.11b/g/n, IEEE 802.11a/n (A-WA2620 access point)

Modulation: OFDM: BPSK @ 6/9 Mbps, QPSK @ 12/18 Mbps, 16-QAM @ 24 Mbps, 64-QAM @ 48/54 Mbps DSSS: DBPSK @ 1 Mbps, DQPSK @ 2 Mbps, and CCK @ 5.5/11 Mbps
MIMO-OFDM: BPSK, QPSK, 16QAM, and 64QAM

Data rate	IEEE 802.11n 5 GHz @ 20 MHz-MCS0 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS7 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS8 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS15 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS0 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS7 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS8 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS15 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS0 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS7 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS8 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS15 Mbps
Receiver sensitivity	-94 dBm	-74 dBm	-94 dBm	-74 dBm	-88 dBm	-72 dBm	-88 dBm	-72 dBm	-94 dBm	-74 dBm	-94 dBm	-74 dBm
Transmit power	16 dBm	12 dBm	15 dBm	13 dBm	15 dBm	13 dBm	15 dBm	13 dBm	16 dBm	14 dBm	16 dBm	14 dBm

Data rate	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS0 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS7 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS8 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS15 Mbps	IEEE 802.11a-6 Mbps	IEEE 802.11a-54 Mbps	IEEE 802.11b-1 Mbps	IEEE 802.11b-11 Mbps	IEEE 802.11g-6 Mbps	IEEE 802.11g-54 Mbps
Receiver sensitivity	-88 dBm	-72 dBm	-88 dBm	-72 dBm	-92 dBm	-76 dBm	-94 dBm	-88 dBm	-92 dBm	-76 dBm
Transmit power	16 dBm	14 dBm	16 dBm	14 dBm	18 dBm	16 dBm	19 dBm	19 dBm	19 dBm	17 dBm

IEEE 802.11b/g/n, IEEE 802.11a/n (A-WA2610E access point)

Modulation: OFDM: BPSK @ 6/9 Mbps, QPSK @ 12/18 Mbps, 16-QAM @ 24 Mbps, 64-QAM @ 48/54 Mbps DSSS: DBPSK @ 1 Mbps, DQPSK @ 2 Mbps, and CCK @ 5.5/11 Mbps
MIMO-OFDM: BPSK, QPSK, 16QAM, and 64QAM

Data rate	IEEE 802.11n 5 GHz @ 20 MHz-MCS0 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS7 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS8 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS15 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS0 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS7 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS8 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS15 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS0 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS7 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS8 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS15 Mbps
Receiver sensitivity	-94 dBm	-74 dBm	-94 dBm	-74 dBm	-88 dBm	-72 dBm	-88 dBm	-72 dBm	-94 dBm	-74 dBm	-94 dBm	-74 dBm
Transmit power	18 dBm	12 dBm	18 dBm	12 dBm	18 dBm	12 dBm	18 dBm	12 dBm	18 dBm	11 dBm	18 dBm	11 dBm

Data rate	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS0 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS7 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS8 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS15 Mbps	IEEE 802.11a-6 Mbps	IEEE 802.11a-54 Mbps	IEEE 802.11b-1 Mbps	IEEE 802.11b-11 Mbps	IEEE 802.11g-6 Mbps	IEEE 802.11g-54 Mbps
Receiver sensitivity	-88 dBm	-72 dBm	-88 dBm	-72 dBm	-92 dBm	-76 dBm	-94 dBm	-88 dBm	-92 dBm	-76 dBm
Transmit power	18 dBm	11 dBm	18 dBm	11 dBm	18 dBm	14 dBm	18 dBm	18 dBm	18 dBm	15 dBm

IEEE 802.11b/g/n, IEEE 802.11a/n (A-WA2620E access point)

Modulation: OFDM: BPSK @ 6/9 Mbps, QPSK @ 12/18 Mbps, 16-QAM @ 24 Mbps, 64-QAM @ 48/54 Mbps DSSS: DBPSK @ 1 Mbps, DQPSK @ 2 Mbps, and CCK @ 5.5/11 Mbps
MIMO-OFDM: BPSK, QPSK, 16QAM, and 64QAM

Data rate	IEEE 802.11n 5 GHz @ 20 MHz-MCS0 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS7 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS8 Mbps	IEEE 802.11n 5 GHz @ 20 MHz-MCS15 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS0 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS7 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS8 Mbps	IEEE 802.11n 5 GHz @ 40 MHz-MCS15 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS0 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS7 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS8 Mbps	IEEE 802.11n 2.4 GHz @ 20 MHz-MCS15 Mbps
Receiver sensitivity	-94 dBm	-74 dBm	-94 dBm	-74 dBm	-88 dBm	-72 dBm	-88 dBm	-72 dBm	-94 dBm	-74 dBm	-94 dBm	-74 dBm
Transmit power	18 dBm	12 dBm	18 dBm	12 dBm	18 dBm	12 dBm	18 dBm	12 dBm	18 dBm	11 dBm	18 dBm	11 dBm

Data rate	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS0 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS7 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS8 Mbps	IEEE 802.11n 2.4 GHz @ 40 MHz-MCS15 Mbps	IEEE 802.11a-6 Mbps	IEEE 802.11a-54 Mbps	IEEE 802.11b-1 Mbps	IEEE 802.11b-11 Mbps	IEEE 802.11g-6 Mbps	IEEE 802.11g-54 Mbps
Receiver sensitivity	-88 dBm	-72 dBm	-88 dBm	-72 dBm	-92 dBm	-76 dBm	-94 dBm	-88 dBm	-92 dBm	-76 dBm
Transmit power	18 dBm	11 dBm	18 dBm	11 dBm	18 dBm	14 dBm	18 dBm	18 dBm	18 dBm	15 dBm

Specifications (continued)

	HP A-WA2610E-AGN Single Radio 802.11n Plenum FIT Access Point (WW) (JD452A)	HP A-WA2620E-AGN Dual Radio 802.11n Plenum FIT Access Point (WW) (JD453A)
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

HP A-WA2610E-AGN Single Radio 802.11n Plenum FIT Access Point (WW) (JD452A)

MCS Index	800 ns Guard Interval		400 ns Guard 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	157.5
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

HP A-WA2620E-AGN Dual Radio 802.11n Plenum FIT Access Point (WW) (JD453A)

MCS Index	800 ns Guard Interval		400 ns Guard 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	157.5
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

HP A-802.11n Access Point Series accessories

HP A-WA2620-AGN Dual Radio 802.11n FIT Access Point (WW) (JD472A)

HP 2/5 GHz Ceiling MIMO 3 Antenna (JD455A)

HP A-WA2610E-AGN Single Radio 802.11n Plenum FIT Access Point (WW) (JD452A)

HP 2/5 GHz Ceiling MIMO 3 Antenna (JD455A)

HP A-WA2620E-AGN Dual Radio 802.11n Plenum FIT Access Point (WW) (JD453A)

HP 2/5 GHz Ceiling MIMO 6 Antenna (JD454A)

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.

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

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