

HP M330 Dual Radio 802.11ac Access Point



Key features

- Up to 1.3 Gbps on the 802.11ac radio and 450 Mbps on the 2.4 GHz 802.11n radio
- Simplified wireless LAN administration with clustering technology
- Robust guest access captive portal features
- Powered by IEEE 802.3af PoE or included power supply
- Limited Lifetime Warranty 2.0

Product overview

HP M330 Dual Radio 802.11ac Access Point series delivers high performance 3x3:3 MIMO technology with simultaneous 1.3 Gbps IEEE 802.11ac performance and up to 450 Mbps IEEE 802.11n support and increased range to 802.11 clients to support increasing mobile device densities and video applications. They support standalone operation as well as “clustering” of up to 16 HP M330 Access Points to accommodate wireless coverage of small to midsize locations. To simplify deployment, these APs can be powered by Power over Ethernet (IEEE 802.3af) or used with included country-localized power adapter. They are fully compatible with the high-speed IEEE 802.11ac and IEEE 802.11n wireless standards, and backward compatible for legacy IEEE 802.11a/b/g support. Each access point includes the necessary accessories for table, wall, or ceiling mounting.

With clustering technology, a configuration change on one access point propagates across all HP M330 Access Points, so changes are uniform throughout the network for consistent security and uninterrupted wireless client roaming. Clustering technology requires no wireless controller or additional hardware, enabling you to keep your network easily accessible.

To simplify user access to the wireless network, the HP M330 Access Point series provides two captive portals with choice in user authentication for flexibility in how users access the network. Flexible options enable the creation of customized access Web pages that includes a welcome message, placement of company logo, and text message field for guest access details.

Features and benefits

Management

- Centralized wireless LAN management
 - Simplified access point management

Commonly used configuration parameters enabled on one AP pass to all members (up to 16 APs) of the cluster, reducing the need to configure each AP individually
 - Auto-channel planning

APs in a cluster are automatically assigned to a channel that reduces interference between adjacent APs
 - Client connection list

Access any member of the cluster to view information about clients connected to any clustered AP
- Secure and easy-to-use Web UI
 - Quick setup page

Consolidates key settings into one page for simple and rapid configuration for common deployment scenarios
- Browser-based device configuration

HP M330 AP enables configuration and management through a secure and intuitive Web browser interface
- SNMP v1 and v2c

Facilitates management of the AP as the device can be discovered, monitored, and managed from an SNMP management station
- Command-line interface (CLI)

Provides an easy-to-use CLI for configuring the AP via an SSH or Telnet session

Connectivity

- Simultaneous IEEE 802.11ac and IEEE 802.11n radio support HP M330 Dual Radio 802.11ac Access Point series offers

Simultaneous 1.3 Gbps IEEE 802.11ac performance concurrently with up to 450 Mbps IEEE 802.11n support. The dual radio design improves coverage and user capacity with 3x3:3 multiple-input multiple-output (MIMO) technology and with three spatial streams on each radio, so wireless clients connect at maximum performance
- IEEE 802.3af PoE-powered device (PD) option

Simplifies deployment and dramatically reduces installation costs by helping eliminate the time and cost involved in supplying local power at each access point location
- Spanning Tree Protocol (IEEE 802.1D)

Prevents network loops
- IPv6 support

The M330 Access Point provides native support for IPv6, the newest version of the Internet Protocol, as well as the previous IPv4 standard

Mobility

- Service-class segmentation
 - Up to eight SSIDs per radio
 - Allows administrator to identify multiple service sets for clients to access
 - Up to eight VLANs per radio
 - IEEE 802.1Q VLAN tagging provides security and traffic control between workgroups
 - SSID to VLAN mapping
 - Permits segmenting traffic on each SSID to a specific VLAN
- Guest access portal
 - HP M330 AP provides two guest access captive portals with choice in user authentication for flexibility in how guest users access the network. Flexible options enable the creation of a customized guest access Web page including welcome message, placement of company logo, and text message field for guest access details
- Auto-channel select
 - Helps reduce radio co-channel interference by automatically selecting a channel with the least radio interference
- Six internal MIMO omni-directional antennas
 - Provides excellent coverage through use of embedded high-gain 3x3 antennas (4.9 dBi antenna at 2.4 GHz and 5.7 dBi antenna at 5 GHz); no need for the added cost of external antennas
- Wireless Distribution System (WDS)
 - Allows the M330 Access Point to connect wirelessly to other HP M330 Access Points without a wired backbone; this is useful for extending the network across areas where no wired infrastructure exists
- Interoperability
 - Meets Wi-Fi Alliance certifications, including IEEE 802.11ac and IEEE 802.11n Wi-Fi to help provide multi-vendor interoperability

Security

- Rogue AP detection
 - Identifies all APs in range; known or trusted access points can be saved, allowing network administrators to identify unauthorized APs
- Secure Sockets Layer (SSL)
 - Encrypts all HTTP traffic, allowing secure access to the browser-based management interface of the access point
- Management password
 - Provides security so that only authorized access to the Web browser interface is allowed
- RADIUS-based user authentication
 - Authenticates a user with a RADIUS server based on user credentials
- RADIUS-based MAC authentication
 - Authenticates a wireless client with a RADIUS server based on the MAC address of the client; this is useful for clients with minimal or no user interface

- RADIUS-based VLAN assignment
Places wireless client on RADIUS-assigned VLAN
- Closed system
Restricts broadcast of SSID as a security measure to conceal presence of the wireless network
- Wired Equivalent Privacy (WEP) using 64- and 128-bit encryption
Provides backward compatibility for legacy clients
- 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
- Local wireless bridge client traffic filtering
Prevents communication between wireless devices associated with the same SSID
- Secure shell (SSHv1/v2)
Encrypts all transmitted data for secure, remote CLI access over IP networks

Warranty and support

- Limited Lifetime Warranty 2.0
Advance hardware replacement with next-business-day delivery (available in most countries). See hp.com/networking/warrantysummary for duration details
- Electronic and telephone support (for Limited Lifetime Warranty 2.0)
Limited 24x7 telephone support is available from HP for the first three years; limited electronic and business hours telephone support is available from HP for the entire warranty period; to reach our support centers, refer to hp.com/networking/contact-support; for details on the duration of support provided with your product purchase, refer to hp.com/networking/warrantysummary

HP M330 Dual Radio 802.11ac Access Point

Specifications



HP M330 Dual Radio 802.11ac (AM) Access Point (JL062A)
HP M330 Dual Radio 802.11ac (WW) Access Point (JL063A)
HP M330 Dual Radio 802.11ac (JP) Access Point (JL064A)

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); Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
AP characteristics Radios (built-in) Radio operation modes AP operation modes Wi-Fi Alliance Certification Antenna Number of internal antennas	802.11a/b/g/n/ac Client access Autonomous a/b/g/n/ac Wi-Fi Certified Internal 2.4 and 5 GHz MIMO omni-directional antennas 6
Physical characteristics Dimensions Weight	6.13(w) x 1.58(d) x 8.22(h) in. (15.57 x 4.01 x 20.88 cm) 2.71 lb (1.23 kg)
Memory and processor Processor	Dual core @ 800 MHz, 128 MB flash, 256 MB SDRAM
Mounting and enclosure	Indoor wall and ceiling mounting with included accessory
Environment Operating temperature Operating relative humidity Nonoperating/Storage temperature Nonoperating/Storage relative humidity Altitude Acoustic	32°F to 104°F (0°C to 40°C) 15% to 80% @ 104°F (40°C), noncondensing -40°F to 158°F (-40°C to 70°C) 15% to 90% @ 140°F (70°C), noncondensing up to 9,842 ft (3 km) Low-speed fan: 0 dB, High-speed fan: 0 dB (no fan)
Electrical characteristics Description AC voltage Current Maximum power rating PoE power Notes	IEEE 802.3af PoE Compliant switch port or included 100-240 V 50/60 Hz 12 V output external power adapter. 100-240 VAC 0.2/2 A 13 W 12 W PoE PoE Power is the power supplied by the internal power supply, it is dependent on the type and quantity of power supplies and may be supplemented with the use of an External Power Supply (EPS). 13 watts is the maximum power draw when the device is used with the included power adapter. PoE maximum power draw is 12.95 watts. Maximum current with power adapter is .89 A; maximum current for PoE supplied power is .26 A.

Specifications (continued)

HP M330 Dual Radio 802.11ac (AM) Access Point (JL062A) HP M330 Dual Radio 802.11ac (WW) Access Point (JL063A) HP M330 Dual Radio 802.11ac (JP) Access Point (JL064A)	
Reliability	
MTBF (years)	107.53
Frequency band and operating channels	
European Union	2.412–2.472 GHz (1–13 channels) 5.180–5.320 GHz (36–64 channels) 5.50–5.70 GHz (100–140 [excluding 5600–5650 MHz] channels)
Taiwan	2.412–2.472 GHz (1–13 channels) 5.280–5.320 GHz (56–64 channels) 5.50–5.70 GHz (100–144 [excluding 5600–5650 MHz] channels) 5.745–5.825 GHz (149–165 channels)
Japan	2.412–2.472 GHz (1–13 channels) 5.180–5.320 GHz (36–64 channels) 5.50–5.70 GHz (100–140 channels)
Americas	2.412–2.462 GHz (1–11 channels) 5.180–5.320 GHz (36–64 channels) 5.50–5.70 GHz (100–144 [excluding 5600–5650 MHz] channels) 5.745–5.825 GHz (149–165 channels)
Rest of World (actual channels designated by selecting country in UI)	2.412–2.472 GHz (1–13 channels) 5.180–5.320 GHz (36–64 channels) 5.50–5.70 GHz (100–144 channels) 5.745–5.825 GHz (149–165 channels)
Radio	FCC Part 15.247; FCC Part 15.407 (US); RSS-210 (Canada); EN 300 328; EN 301-489-1; EN 301-489-17; ARIB STD-T66; RSS-Gen (Canada); OFTA (Hong Kong); DSPR (Japan); IDA Registration (Singapore); MIC approval (Korea); RCR STD-33; ARIB STD-T71 (Japan); EN 301 893 (EU); KCC approval (Korea)
Safety	UL 60950-1; IEC 60950-1; CAN/CSA-C22.2 No. 60950-1
RF exposure	FCC Bulletin OET-65C; RSS-102; CFR 47, Part 2, Subpart J; ANSI/IEEE C95.1 (99)
Wireless interface	Microsoft® Internet Explorer 5.5 or higher; Netscape Navigator 6.0 or higher
Emissions	EN 55022 Class B; EN 60601-1-2; EN 301 489-1; EN 301 489-17; ICES-003 Class B; FCC Part 15, Class B; KCC Class A
Management	Command-line interface; Web browser; SNMP manager; Telnet; HTTPS
Services	Refer to the HP website at 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 M330 Dual Radio 802.11ac (AM) Access Point (JL062A)
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HP M330 Dual Radio 802.11ac (JP) Access Point (JL064A)

Radio characteristics:**HP M330 Dual Radio 802.11ac (AM) Access Point (JL062A)****HP M330 Dual Radio 802.11ac (WW) Access Point (JL063A)****HP M330 Dual Radio 802.11ac (JP) Access Point (JL064A)****Note**

The transmit power data is EIRP and includes the embedded antennas. The receiver sensitivity also includes the antenna gain. Maximum power levels will vary by channel and country of operation.

IEEE 802.11ac 5GHz @ 80 MHz channel

Data rate	MCS9—1300 Mbps	MCS0—97.5 Mbps
Receiver sensitivity	-64.7 dBm	-91.7 dBm
Transmit power	23.4 dBm	27.9 dBm

IEEE 802.11n 5GHz @ 40MHz channel

Data rate	MCS23—450 Mbps	MCS16—45 Mbps
Receiver sensitivity	-73.7 dBm	-95.7 dBm
Transmit power	25.4 dBm	27.9 dBm

IEEE 802.11n 5GHz @ 20MHz channel

Data rate	MCS23—144 Mbps	MCS16—14.4 Mbps
Receiver sensitivity	-76.7 dBm	-98.7 dBm
Transmit power	25.4 dBm	27.9 dBm

IEEE 802.11n 2.4GHz @ 40MHz channel

Data rate	MCS23—450 Mbps	MCS16—45 Mbps
Receiver sensitivity	-72.9 dBm	-94.9 dBm
Transmit power	26.6 dBm	28.6 dBm

IEEE 802.11n 2.4GHz @ 20MHz channel

Data rate	MCS23—144 Mbps	MCS16—14.4 Mbps
Receiver sensitivity	-75.9 dBm	-97.9 dBm
Transmit power	27.6 dBm	28.6 dBm

IEEE 802.11a 5GHz

Data rate	54 Mbps	6 Mbps
Receiver sensitivity	-80.7 dBm	-97.7 dBm
Transmit power	26.9 dBm	27.9 dBm

IEEE 802.11b/g 2.4GHz

Data rate	54 Mbps	6 Mbps	11 Mbps	1 Mbps
Receiver sensitivity	-79.9 dBm	-97.9 dBm	-92.9 dBm	-100.9 dBm
Transmit power	27.6 dBm	29.1 dBm	29.6 dBm	29.6 dBm

General protocols

IEEE 802.11a	IEEE 802.11i	IEEE 802.3af Power over Ethernet
IEEE 802.11ac	IEEE 802.11n	IEEE 802.3at PoE+
IEEE 802.11b	IEEE 802.1D Spanning Tree Protocol	IEEE 802.3u 100BASE-X
IEEE 802.11e	IEEE 802.1Q VLANs	RFC 791 IP
IEEE 802.11g	IEEE 802.1X	RFC 2460 IPv6

Learn more at
hp.com/networking



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 performed by the Wi-Fi Alliance Organization. See the Specifications section of this series for more information.

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