HP M220 802.11n Access Point Series





Key features

- IEEE 802.11a/b/g/n Access Point (AP)
- Single-radio, dual-band (2.4GHz or 5GHz)
- Simplified wireless LAN administration with clustering technology
- Powered by IEEE 802.3af PoE or included power supply
- Limited Lifetime Warranty 2.0

Product overview

HP M220 802.11n Access Point Series are cost effective access points ideal for small businesses requiring multiple access points for wireless coverage. They support standalone operation as well as "clustering" of up to 16 M220 Access Points to accommodate wireless coverage of mid-size locations. M220 Access Points are dual-band, single-radio devices supporting high-speed wireless networking at 5GHz or 2.4GHz. Dual-band operation gives you flexibility to use the less congested 5GHz spectrum for better wireless performance, better user experience and faster delivery of mobile applications. They are fully compatible with the high-speed IEEE 802.11n wireless standard and backward-compatible for legacy IEEE 802.11a/b/q support.

With clustering technology, a configuration change on one access point propagates across all M220 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.

HP M220 802.11n Access Points come with the Limited Lifetime Warranty 2.0. This warranty provides next-business-day advance hardware replacement (in most countries), limited 24x7 telephone support available from HP for the first 3 years, and limited electronic and business hours telephone support is available from HP for the entire warranty period.

Features and benefits

Management

- NEW Centralized wireless LAN management
- Simplified access point management

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

- HTTPS secured management sessions

Prevent management sessions from being observed on the network

• SNMP v1 and v2c

Facilitates management of the AP, as the device can be discovered and monitored from an SNMP management station.

Connectivity

- Fully IEEE 802.11n-compliant dual-band access point
- 2.4 GHz frequency band support

Uses your IEEE 802.11n wireless clients alongside legacy IEEE 802.11b/g devices.

- 5 GHz frequency band support

Operates your IEEE 802.11n and 802.11a devices in the 5 GHz spectrum, which has less interference from microwave ovens, Bluetooth® devices, and cordless phones.

• 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 M220 802.11 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 8 SSIDs

Allows administrator to identify multiple service sets for clients to access.

- Up to 8 VLANs

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.

Auto channel select

Helps reduce radio co-channel interference by automatically selecting an unoccupied radio channel.

• 2x3:2 MIMO support

Provides up to 300 Mbps performance and supports a maximum of 64 wireless clients per AP.

• Two internal MIMO omni-directional antennas

Provides excellent coverage through use of embedded high-gain antennas (4.56 dBi antenna at 2.4 GHz and 5.43 dBi antenna at 5 GHz); no need for the added cost of external antennas.

Wireless Distribution System (WDS)

Allows the M220 802.11n Access Point to connect wirelessly to other HP M220 802.11n 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 802.11n Wi-Fi and WPA2 to help provide multivendor 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 access point.

Warranty and support

• Limited 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 Limited 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 hp.com/networking/contact-support; for details on the duration of support provided with your product purchase, refer to hp.com/networking/warrantysummary.

HP M220 802.11n Access Point Series





| | HP M220 802.11n AM Access Point (J9798A) | HP M220 802.11n WW Access Point (J9799A) | |
|---|---|---|--|
| 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 | IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T); | |
| AP characteristics | | | |
| Radios (built-in) | 802.11a/b/g/n | 802.11a/b/g/n | |
| Radio operation modes | Client access, Client bridge | Client access, Client bridge | |
| AP operation modes | Autonomous | Autonomous | |
| Wi-Fi Alliance Certification | a/b/g/n Wi-Fi Certified | a/b/g/n Wi-Fi Certified | |
| Antenna | Internal 2.4/5 GHz MIMO omni-directional antennas | Internal 2.4/5 GHz MIMO omni-directional antennas | |
| Number of internal antennas | 2 | 2 | |
| Physical characteristics | | | |
| Dimensions | 7.62(w) x 5(d) x 1.5(h) in (19.35 x 12.7 x 3.81 cm) | 7.62(w) x 5(d) x 1.5(h) in (19.35 x 12.7 x 3.81 cm) | |
| Weight | 0.75 lb (0.34 kg) | 0.75 lb (0.34 kg) | |
| Environment | | | |
| Operating temperature | 32°F to 104°F (0°C to 40°C) | 32°F to 104°F (0°C to 40°C) | |
| Operating relative humidity | 15% to 95% @ 104°F (40°C), noncondensing | 15% to 95% @ 104°F (40°C), 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 | 15% to 95% @ 149°F (65°C), noncondensing | 15% to 95% @ 149°F (65°C), noncondensing | |
| Altitude | up to 15,000 ft (4.6 km) | up to 15,000 ft (4.6 km) | |
| Acoustic | Low-speed fan: 0 dB, High-speed fan: 0 dB (no fan) | Low-speed fan: 0 dB, High-speed fan: 0 dB (no fan) | |
| Electrical characteristics | | | |
| Description | IEEE 802.3af PoE Compliant or included 110-240 V 50/60 Hz external | IEEE 802.3af PoE Compliant or included 110-240 V 50/60 Hz external | |
| | power supply | power supply | |
| AC voltage | 100 - 240 VAC | 100 - 240 VAC | |
| Current | 0.4 A | 0.4 A | |
| Maximum power rating | 5.3 W | 5.3 W | |
| PoE power | 7 W PoE | 7 W PoE | |
| | Notes | Deli Description and a second leading the interest leading to the | |
| | 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 a External Power Supply (EPS). 5.3 watts is the maximum power draw when the device is used with the included power adapter. | 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 a External Power Supply (EPS). 5.3 watts is the maximum power draw when the device is used with the included power adapter. | |
| | | | |
| Frequency band and operating channels | 2.442 2.462.611 /44 1 | | |
| US | 2.412 - 2.462 GHz (11 channels) 5.180 - 5.240 GHz (4 channels) | | |
| | 5.745 - 5.825 GHz (5 channels) | | |
| European Union | | 2.412 - 2.472 GHz (13 channels) | |
| | | 5.180 - 5.240 GHz (4 channels) | |
| | | | |
| | | 5.500 - 5.700 GHz (8 channels) | |
| Rest of World (Actual channels designated | | 2.412 - 2.472 GHz (13 channels) | |
| Rest of World (Actual channels designated by selecting country in UI) | | 2.412 - 2.472 GHz (13 channels) 5.180 - 5.240 GHz (4 channels) | |
| | | 2.412 - 2.472 GHz (13 channels) | |

| | HP M220 802.11n AM Access Point (J9798A) | HP M220 802.11n WW Access Point (J9799A) | |
|-------------|---|--|--|
| Radio | FCC Part 15.247; FCC Part 15.407 (no DFS); RSS-210, Issue 8; RSS-Gen, Issue 3 | EN 300 328; EN 301-489-1; EN 301-489-17; EN 301 893 (EU); NCCLP0002 (Taiwan) | |
| Safety | UL 60950-1 2nd Edition; CSA C22.2 No. 60950-1-07 2nd Edition | EN 60950-1; IEC 60950-1 (ed.2); IEC 60950-1 (ed.2): am1 | |
| RF Exposure | Canada RSS-102; FCC Bulletin OET-65 Supplement C | EN 50385 | |
| Services | 3-year, parts only, global next-day advance exchange (U7T22E) 3-year, 4-hour onsite, 13x5 coverage for hardware (U7T30E) 3-year, 4-hour onsite, 24x7 coverage for hardware (U7T30E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U7T37E) 4-year, 4-hour onsite, 13x5 coverage for hardware (U7T41E) 4-year, 4-hour onsite, 24x7 coverage for hardware (U7T43E) 4-year, 4-hour onsite, 24x7 coverage for hardware (U7T43E) 5-year, 4-hour onsite, 24x7 coverage for hardware (U7T54E) 5-year, 4-hour onsite, 24x7 coverage for hardware (U7T54E) 5-year, 4-hour onsite, 24x7 coverage for hardware (U7T56E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (U7T63E) 3 Yr 6 hr Call-to-Repair Onsite (U7T33E) 4 Yr 6 hr Call-to-Repair Onsite (U7T46E) 5 Yr 6 hr Call-to-Repair Onsite (U7T59E) 1-year, 4-hour onsite, 13x5 coverage for hardware (U7T17E) 1-year, 4-hour onsite, 24x7 coverage for hardware (U7T17E) 1-year, 4-hour onsite, 24x7 coverage for hardware (U7T17E) 1-year, 4-hour onsite, 24x7 coverage for hardware (U7T19E) 1-year, 4-hour onsite, 24x7 coverage for hardware (U7T19E) 1-year, 5 hour Call-To-Repair Onsite for hardware (U7T19E) 1-year, 6 hour Call-To-Repair Onsite for hardware (U7T19E) 1-year, 6 hour Call-To-Repair Onsite for hardware (U7T19E) 1-year, 7 hour onsite, 24x7 coverage for hardware (U7T19E) 1-year, 8 hour onsite, 24x7 coverage for hardware (U7T19E) 1-year, 24x7 software phone support, software updates + Next 8 Business Day Hardware Exchange (U7T13E) 3-year, 24x7 software phone support, software updates + 4 hour 1 Hardware Exchange (U7T24E) 4-year, 24x7 software phone support, software updates + 4 hour 1 Hardware Exchange (U7T38E) 4-year, 24x7 software phone support, software updates + 4 hour 1 Hardware Exchange (U7T38E) 4-year, 24x7 software phone support, software updates + 4 hour 1 Hardware Exchange (U7T39E) 5 -year, 24x7 software phone support, software updates + Next 1 Business Day Hardware Exchange (U7T51E) 8 -year, 24x7 software phone support, software | 3-year, parts only, global next-day advance exchange (U7T22E) 3-year, 4-hour onsite, 13x5 coverage for hardware (U7T30E) 3-year, 4-hour onsite, 24x7 coverage for hardware (U7T30E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (U7T37E) 4-year, 4-hour onsite, 13x5 coverage for hardware (U7T41E) 4-year, 4-hour onsite, 24x7 coverage for hardware (U7T43E) 4-year, 4-hour onsite, 24x7 coverage for hardware (U7T54E) 5-year, 4-hour onsite, 13x5 coverage for hardware (U7T54E) 5-year, 4-hour onsite, 24x7 coverage for hardware (U7T54E) 5-year, 4-hour onsite, 24x7 coverage for hardware (U7T56E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (U7T63E) 3 Yr 6 hr Call-to-Repair Onsite (U7T33E) 4 Yr 6 hr Call-to-Repair Onsite (U7T36E) 5 Yr 6 hr Call-to-Repair Onsite (U7T59E) 1-year, 4-hour onsite, 13x5 coverage for hardware (U7T15E) 1-year, 4-hour onsite, 24x7 coverage for hardware (U7T17E) 1-year, 6 hour Call-To-Repair Onsite for hardware (U7T17E) 1-year, 4-hour onsite, 24x7 coverage for hardware (U7T17E) 1-year, 4-hour onsite, 24x7 coverage for hardware (U7T17E) 1-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (U7T13E) 1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (U7T14E) 3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (U7T23E) 3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (U7T38E) 4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (U7T38E) 4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (U7T38E) 4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (U7T38E) 4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (U7T51E) 5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (U7T51E) 5-year, 24x7 softwa | |

| HP M220 802.11n AM Access Point (J9798A | | t (J9798A) | HP M220 802.11n WW Access Point (J9799A) | | | |
|--|------------|------------|--|-------------|--|--|
| Radio characteristics: HP M220 802.11n AM Access Point (J9798A) | | | | | | |
| IEEE 802.11n 5 GHz @ 20 MH | lz | | | | | |
| Data rate | MCS 0 Mbps | MSC 7 Mbps | MSC 8 Mbps | MSC 15 Mbps | | |
| Receiver sensitivity | -86 dBm | -67 dBm | -86 dBm | -68 dBm | | |
| Transmit power | 15 dBm | 11 dBm | 15 dBm | 11 dBm | | |
| IEEE 802.11n 5 GHz @ 40 MH | Iz | | | | | |
| Data rate | MCS 0 Mbps | MSC 7 Mbps | MSC 8 Mbps | MSC 15 Mbps | | |
| Receiver sensitivity | -83 dBm | -64 dBm | -84 dBm | -65 dBm | | |
| Transmit power | 15 dBm | 11 dBm | 15 dBm | 11 dBm | | |
| IEEE 802.11n 2.4 GHz @ 20 N | ИНZ | | | | | |
| Data rate | MCS 0 Mbps | MSC 7 Mbps | MSC 8 Mbps | MSC 15 Mbps | | |
| Receiver sensitivity | -87 dBm | -69 dBm | -86 dBm | -68 dBm | | |
| Transmit power | 17 dBm | 13 dBm | 17 dBm | 13 dBm | | |
| IEEE 802.11n 2.4 GHZ @ 40 I | | | | | | |
| Data rate | MCS 0 Mbps | MSC 7 Mbps | MSC 8 Mbps | MSC 15 Mbps | | |
| Receiver sensitivity | -84 dBm | -65 dBm | -84 dBm | -65 dBm | | |
| Transmit power | 17 dBm | 13 dBm | 17 dBm | 13 dBm | | |
| IEEE 802.11a | | | | | | |
| Data rate | 6 Mbps | 54 Mbps | | | | |
| Receiver sensitivity | -86 dBm | -71 dBm | | | | |
| Transmit power | 15 dBm | 11 dBm | | | | |
| IEEE 802.11b | | | | | | |
| Data rate | 1 Mbps | 11 Mbps | | | | |
| Receiver sensitivity | -96 dBm | -87 dBm | | | | |
| Transmit power | 17 dBm | 17 dBm | | | | |
| IEEE 802.11g | | | | | | |
| Data rate | 6 Mbps | 54 Mbps | | | | |
| Receiver sensitivity | -87 dBm | -72 dBm | | | | |
| Transmit power | 17 dBm | 13 dBm | | | | |

| | HP M220 802.11n AM Access Point (J9798A) | | HP M220 802.11n WW Access Point (J9799A) | | | |
|--|--|------------|--|-------------|--|--|
| Radio characteristics: HP M220 802.11n WW Access Point (J9799A) | | | | | | |
| EEE 802.11n 5 GHz @ 20 MH | lz | | | | | |
| ata rate | MCS 0 Mbps | MSC 7 Mbps | MSC 8 Mbps | MSC 15 Mbps | | |
| eceiver sensitivity | -86 dBm | -67 dBm | -86 dBm | -68 dBm | | |
| ansmit power | 15 dBm | 11 dBm | 15 dBm | 11 dBm | | |
| EE 802.11n 5 GHz @ 40 MH | Iz | | | | | |
| ata rate | MCS 0 Mbps | MSC 7 Mbps | MSC 8 Mbps | MSC 15 Mbps | | |
| eceiver sensitivity | -83 dBm | -64 dBm | -84 dBm | -65 dBm | | |
| ansmit power | 15 dBm | 11 dBm | 15 dBm | 11 dBm | | |
| EE 802.11n 2.4 GHz @ 20 l | ИНZ | | | | | |
| ata rate | MCS 0 Mbps | MSC 7 Mbps | MSC 8 Mbps | MSC 15 Mbps | | |
| ceiver sensitivity | -87 dBm | -69 dBm | -86 dBm | -68 dBm | | |
| nsmit power | 17 dBm | 13 dBm | 17 dBm | 13 dBm | | |
| E 802.11n 2.4 GHz @ 40 I | | | | | | |
| ata rate | MCS 0 Mbps | MSC 7 Mbps | MSC 8 Mbps | MSC 15 Mbps | | |
| ceiver sensitivity | -84 dBm | -65 dBm | -84 dBm | -65 dBm | | |
| nsmit power | 17 dBm | 13 dBm | 17 dBm | 13 dBm | | |
| E 802.11a | | | | | | |
| a rate | 6 Mbps | 54 Mbps | | | | |
| ceiver sensitivity | -86 dBm | -71 dBm | | | | |
| nsmit power | 15 dBm | 11 dBm | | | | |
| E 802.11b | | | | | | |
| ta rate | 1 Mbps | 11 Mbps | | | | |
| ceiver sensitivity | -96 dBm | -87 dBm | | | | |
| nsmit power | 17 dBm | 17 dBm | | | | |
| EE 802.11g | | | | | | |
| ita rate | 6 Mbps | 54 Mbps | | | | |
| ceiver sensitivity | -87 dBm | -72 dBm | | | | |
| ansmit power | 17 dBm | 13 dBm | | | | |

| | HP M220 802.11n AM Access Po | int (J9798A) | HP M220 802.11n WW Access Po | oint (J9799A) |
|-------------------------------|------------------------------|--------------------|------------------------------|--------------------|
| HP M220 802.11n AM Access Poi | nt (J9798A) | | | |
| 1CS Index | 80 | 0 nS | 400 |) nS |
| | 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

| | HP M220 802.11n AM Access Po | int (J9798A) | HP M220 802.11n WW Access Po | oint (J9799A) |
|------------------------------|------------------------------|--------------------|------------------------------|--------------------|
| HP M220 802.11n WW Access Po | pint (J9799A) | | | |
| MCS Index | 800 | O nS | 40 | D nS |
| | 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 |

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