

Overview

HP M200-802.11n Access Point Series (Retired)

Models

HP M200 802.11n Access Point (US)	J9467A
HP M200 802.11n Access Point (WW)	J9468A

Key features

- IEEE 802.11a/b/g/n access point
- Single radio, dual band (2.4 GHz and 5 GHz)
- Independently managed
- Easy-to-use Web user interface
- Powered by 802.3af PoE or included power supply

Product overview

The HP M200 802.11n Access Point provides wireless connectivity for your expanding network. Take full advantage of the next-generation IEEE 802.11n standard with the M200 access point's dual-band capability while simultaneously supporting IEEE 802.11a or 802.11b/g devices. The new Web user interface makes the M200 access point easy to set up, yet retains key functionality to keep your sensitive data secure.

Features and benefits

Management

- **NEW 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
- **Integration with HP PCM:** enables discovery and mapping via HP PCM, available as a free download from the Web; provides all the basic tools needed to handle a network effectively, along with a 60-day trial version of HP PCM+
- **IEEE 802.1AB Link Layer Discovery Protocol (LLDP):** automated device discovery protocol provides easy mapping by network management applications
- **Manager, operator privilege levels:** provides read-only (operator) and read-write (manager) access levels for Web management

Connectivity

- **NEW 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 to eliminate the time and cost involved in supplying local power at each access point location
- **Auto-MDIX:** automatically adjusts for straight-through or crossover cables on the 10/100/1000 port
- **Spanning Tree Protocol (IEEE 802.1D):** prevents network loops

Mobility

- **Four wireless communities:** consolidates Quality of Service, security, and VLAN settings into one easy-to-manage identifier per SSID
- **Service-class segmentation:**

Overview

- Up to four SSIDs (one per wireless community): allows administrator to identify multiple service sets for clients to access
- Up to four VLANs (one per wireless community): IEEE 802.1Q VLAN tagging provides security between workgroups
- Wireless community-based prioritization: allows the administrator to help ensure that key network traffic is prioritized by weighting specific wireless communities
- **Auto Channel Select (ACS):** helps reduce radio co-channel interference by automatically selecting an unoccupied radio channel
- **Wireless Distribution System (WDS) modes:**
 - Access Point and WDS Bridge, Access Point Only, WDS Bridge Only, and Monitor: allow HP M200 802.11n Access Points to connect wirelessly to other HP M200 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
- **Three external 3x3 MIMO omni-directional antennas:** enable the antennas to be configured for improved radio coverage and performance
- **Quality of Service management:**
 - IEEE 802.1p: maps WMM prioritization to IEEE 802.1p queues on the wired network
 - Wireless community-based prioritization: allows users to prioritize traffic based on wireless community (SSID)
 - DiffServ: prioritizes data based on the traffic class

Security

- **AP client access control functions:**
 - IEEE 802.1X authentication using EAP-SIM, EAP-FAST, EAP-TLS, EAP-TTLS, and PEAP
 - MAC address authentication using local or RADIUS access lists
 - RADIUS AAA using EAP-MD5, PAP, CHAP, and MS-CHAPv2
 - Layer 2 wireless client isolation
- **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
- **Choice of IEEE 802.11i, Wi-Fi Protected Access 2 (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
- **Secure Sockets Layer (SSL):** encrypts all HTTP traffic, allowing secure access to the browser-based management interface of the access point
- **Local wireless bridge client traffic filtering:** when enabled, prevents communication between wireless devices associated with the same access point
- **Closed system:** restricts broadcast of SSID as a security measure to conceal presence of the wireless network; access point does not respond to the wireless client probe request of "ANY"
- **Management password:** provides security so that only authorized access to the Web browser interface is allowed
- **Wired Equivalent Privacy (WEP) using 64 and 128-bit encryption:** provides backward compatibility for legacy clients
- **Rogue AP detection:** identifies all access points in range; known or trusted access points can be saved, allowing network administrators to identify unauthorized access points

Monitor and diagnostics

- **Diagnostic:**
 - Client event log records association, authentication, and DHCP events
 - Packet capture tool for Ethernet and IEEE 802.11 interfaces (PCAP format)
 - Data rate matrix
 - Remote SYSLOG

Warranty and support

Overview

- **Lifetime warranty:** for as long as you own the product with advance replacement and next-business-day delivery (available in most countries)*
- **Electronic and telephone support:** limited electronic and telephone support is available from HP; refer to: <http://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)

* Hardware warranty replacement for as long as you own the product, with next business day advance replacement (available in most countries) with a five-year hardware warranty replacement for the disk drive included with HP AllianceONE Services zl Module, HP Threat Management Services zl Module, HP PCM+ Agent with AllianceONE Services zl Module, and HP E-MSM765 zl Mobility Controller. For details, refer to the HP Software License, Warranty, and Support booklet at: <http://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.

HP M200 802.11n Access Point

- 1 RJ-45 autosensing 10/100 ports

J9467A
See Configuration
Note:1,3

HP M200 802.11n Access Point (WW)

- 1 RJ-45 autosensing 10/100 ports

J9468A
See Configuration
Note:2,3

HP M220 802.11n AM Access Point

- 1 RJ-45 autosensing 10/100 ports

J9798A
See Configuration
Note:1,3

HP M220 802.11n WW Access Point

- 1 RJ-45 autosensing 10/100 ports

J9799A
See Configuration
Note:2,3

Configuration Rules:

- Note 1 Only available in US. (Warning in Clic only)
- Note 2 Not available US and Israel. (Warning in Clic only)
- Note 3 Localization required. (See Localization Menu)

Power Supplies

None

Access Point Options

External Power Supplies

HP 1-port Power Injector

J9407B
See Configuration
Note:1

HP 1-port Power Injector

J9407B
See Configuration
Note:1

Configuration Rules:

- Note 1 Localization required. (See Localization Menu)

Configuration

Adapters

HP Dual Band 802.11n Wireless USB Adapter

JD039A

Technical Specifications

HP M200 802.11n Access Point (US) (J9467A)

Ports	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	Single (a/b/g/n)
	Radio operation modes	Client access, Packet capture, Client bridge
	AP operation modes	Autonomous
	Wi-Fi Alliance Certification*	a/b/g/n Wi-Fi Certified
	* HP access points and access devices are Wi-Fi Certified, providing our customers with the assurance that these products have met and passed the rigorous interoperability testing performed by the Wi-Fi Alliance Organization. See the Specifications section of this series for more information.	
Physical characteristics	Dimensions	5.04(d) x 7.68(w) x 1.26(h) in. (12.8 x 19.5 x 3.2 cm)
	Weight	0.84 lb. (.39 kg)
	Enclosure	Indoor
Environment	Operating temperature	32°F to 104°F (0°C to 40°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Nonoperating/Storage relative humidity	15% to 95% @ 149°F (65°C), noncondensing
	Altitude	up to 15,000 ft. (4.6 km)
	Acoustic	Power: 0 dB (no fan)
Electrical characteristics	Description	IEEE 802.3af PoE Compliant or included 110-240 V 50/60 Hz external power supply
	Current	0.7 A
	Maximum power rating	8.4 W
	Antenna	External 2.4/5 GHz 3x3 MIMO omni-directional antennas
	Number of external antennas	3
Frequency band and Operating channels	US	2.400 - 2.462 GHz (11 channels) 5.150 - 5250 GHz (4 channels) 5.725 - 5.825 GHz (5 channels)
Radio	FCC Part 15.247; FCC Part 15.407 (no DFS)	
Safety	UL 60950-1	
Emissions	CISPR 22 Class B; EN 55022 Class B; EN 60601-1-2; ICES-003 Class B; IEC/EN 61000-3-2; IEC/EN 61000-3-3; FCC Part 15, Class B	
RF Exposure	FCC Bulletin OET-65C	
Features	Single Radio IEEE 802.11n for high-throughput applications and IEEE 802.11a/b/g for legacy support - IEEE 802.11a/b/g/n Wi-Fi Certified (dual streams) - Dual-band support (2.4 and 5 GHz)	
Services	1-year, 4-hour onsite, 13x5 coverage for hardware (HR643E) 1-year, 4-hour onsite, 24x7 coverage for hardware (HR644E) 1-year, 6 hour Call-To-Repair Onsite for hardware (HR647E) 1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR645E)	

Technical Specifications

5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS829E)

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.

MCS Index	800 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

HP M200 802.11n Access Point (WW) (J9468A)

Ports	1 RJ-45 auto-sensing 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	Single (n/a/b/g)	
	Radio operation modes	Client access, Packet capture, Client bridge	
	AP operation modes	Autonomous	
	Wi-Fi Alliance Certification*	a/b/g/n Wi-Fi Certified	
	* HP access points and access devices are Wi-Fi Certified, providing our customers with the assurance that these products have met and passed the rigorous interoperability testing performed by the Wi-Fi Alliance Organization. See the Specifications section of this series for more information.		
Physical characteristics	Dimensions	5.04(d) x 7.68(w) x 1.26(h) in. (12.8 x 19.5 x 3.2 cm)	
	Weight	0.84 lb. (.39 kg)	
	Enclosure	Indoor	
Environment	Operating temperature	32°F to 104°F (0°C to 40°C)	
	Operating relative humidity	15% to 95% @ 104°F (40°C), non-condensing	
	Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	
	Nonoperating/Storage relative humidity	15% to 95% @ 149°F (65°C), non-condensing	
	Altitude	up to 15,000 ft. (4.6 km)	

Technical Specifications

	Acoustic	Power: 0 dB (no fan)
Electrical characteristics	Description	1EEE 802.3af PoE Compliant or included 110-240 V 50/60 Hz external power supply
	Current	0.7 A
	Maximum power rating	8.4 W
	Antenna	External 2.4/5 GHz 3x3 MIMO omni-directional antennas
Frequency band and Operating channels	Number of external antennas	3
		European Union
	Rest of World (Actual channels designated by selecting country in UI)	2.400 - 2.472 GHz (13 channels)
		5.150 - 5.250 GHz (4 channels)
		5.250 - 5.350 GHz (4 channels) 5.470 - 5.700 GHz (11 channels) 5.725 - 5.865 GHz (7 channels)
Radio	EN 300 328; EN 301-489-1; EN 301-489-17; EN 301 893 (EU) no DFS; RSS-210, Issue 7; RSS-Gen, Issue 2; NCCLP0002 (Taiwan)	
Safety	UL 60950-1; CAN/CSA 22.2 No. 60950-1; IEC 60950-1; EN 60950-1	
Emissions	CISPR 22 Class B; EN 55022 Class B; EN 60601-1-2; ICES-003 Class B; IEC/EN 61000-3-2; IEC/EN 61000-3-3; FCC Part 15, Class B	
RF Exposure	RSS-102; EN 50385; EC Council Recommendation 1999/519/EC; ARPANSA EMR Limits (May 2002)	
Features	Single Radio IEEE 802.11n for high-throughput applications and IEEE 802.11a/b/g for legacy support - IEEE 802.11a/b/g/n Wi-Fi Certified (dual streams) - Dual-band support (2.4 and 5 GHz)	
Services	1-year, 4-hour onsite, 13x5 coverage for hardware (HR643E)	
	1-year, 4-hour onsite, 24x7 coverage for hardware (HR644E)	
	1-year, 6 hour Call-To-Repair Onsite for hardware (HR647E)	
	1-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support and software updates (HR645E)	
	5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS829E)	

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

Radio characteristics: IEEE 802.11n 5 GHz @ 40 MHz

Data rate	MCS0 Mbps	MCS7 Mbps	MCS8 Mbps	MCS15 Mbps
Receiver sensitivity	-88 dBm	-70 dBm	-88 dBm	-69 dBm
Transmit power	17 dBm	12 dBm	17 dBm	12 dBm

Radio characteristics: IEEE 802.11n 5 GHz @ 20 MHz

Data rate	MCS0 Mbps	MCS7 Mbps	MCS8 Mbps	MCS15 Mbps
Receiver sensitivity	-94 dBm	-75 dBm	-92 dBm	-72 dBm
Transmit power	17 dBm	12 dBm	17 dBm	12 dBm

Radio characteristics: IEEE 802.11n 2.4 GHz @ 20 MHz

Data rate	MCS0 Mbps	MCS7 Mbps	MCS8 Mbps	MCS15 Mbps
Receiver sensitivity	-94 dBm	-77 dBm	-94 dBm	-75 dBm
Transmit power	19 dBm	11 dBm	19 dBm	11 dBm

Radio characteristics: IEEE 802.11a/b/g

Technical Specifications

	IEEE 802.11a	IEEE 802.11a	IEEE 802.11b	IEEE 802.11b	IEEE 802.11g	IEEE 802.11g
Data rate	6 Mbps	54 Mbps	1 Mbps	11 Mbps	6 Mbps	54 Mbps
Receiver sensitivity	-92 dBm	-76 dBm	-94 dBm	-91 dBm	-92 dBm	-76 dBm
Transmit power	17 dBm	13 dBm	19 dBm	19 dBm	17 dBm	13 dBm

Standards and protocols **Mobility**

(applies to all products in series)

- 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 802.11g 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

QoS/CoS

- IEEE 802.1P (CoS)
- RFC 2474 DSCP DiffServ

MCS Index

	800 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

Accessories

HP M200-802.11n Access Point Series accessories	Power Supply	
	HP 1-Port Power Injector	J9407A
	Wireless Card And Adapters	
	HP Dual Band 802.11n Wireless USB Adapter	JD039A

Accessory Product Details

NOTE: Details are not available for all accessories. The following specifications were available at the time of publication.

HP 1-port Power Injector (J9407A)	Physical characteristics	Dimensions	5.71(d) x 2.36(w) x 1.22(h) in. (14.5 x 6 x 3.1 cm)
		Weight	1 lb. (0.45 kg)
	Environment	Operating temperature	32°F to 104°F (0°C to 40°C)
		Operating relative humidity	5% to 93%, noncondensing
		Nonoperating/Storage temperature	-4°F to 158°F (-20°C to 70°C)
		Nonoperating/Storage relative humidity	5% to 95%, noncondensing
	Electrical characteristics	Altitude	up to 10,000 ft. (3 km)
		Voltage	100-240 VAC
		Current	0.3/0.2 A
		Frequency	50/60 Hz
Safety		Notes	IEEE 802.3af compliant
Emissions	UL 60950; EN 60950		
Notes	EN 55024; EN 55022 (CISPR 22) Class B with FTP Cabling; FCC Part 15, Class B with FTP cabling		
Services	The 1-port power converter has 1 AC power cord input, 1 RJ-45 10/100/1000 Mbps port for data coming from the network infrastructure, and 1 RJ-45 for data plus IEEE 802.3af-compliant PoE for Gigabit Ethernet to power the access point.		
	Refer to the HP website at: http://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.		

HP Dual Band 802.11n Wireless USB Adapter (JD039A)	Notes	<p>System requirements: Computer with USB 2.0 port. Drivers support the following operating systems: Windows 2000, Windows XP, Windows Vista®, and Windows 7.</p> <p>Standards conformance: IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, WMM, and Wi-Fi Certified Security: WPA2-Enterprise, WPA2-Personal, WPA-Enterprise, WPA-Personal, AES/TKIP, WEP 64-/128-bit encryption, Wi-Fi Protected Setup (WPS), and PIN and PBC modes</p> <p>IEEE 802.1X EAP types: EAP-TLS, EAP-TTLS/MSCSHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, and EAP-SIM</p> <p>Antennas: 2 internal: 2T, 2R</p> <p>Data rates supported: 802.11n: MCS 0 to 15 for HT20MHz; MCS 0 to 15 for HT40MHz; 802.11g: 54, 48, 36, 24, 18, 12, 9, and 6 Mbps; 802.11b: 11, 5.5, 2, and 1 Mbps</p> <p>Regulatory/agency approvals. Safety: UL/CSA60950-1, EN/IEC60950-1; radio: FCCPart15.247, FCC Part15.407, RSS-210, EN300 328, and EN301 893; EMC: EN301 489-1, EN301 489-17; SAR: FCC OET Bulletin 65 Supplement C, RSS-102, EN50392</p> <p>Frequency band USA/Canada: 2.412-2.462 GHz, 5.15-5.8 GHz; EU: 2.412-2.472 GHz, 5.15-5.8 GHz (varies by country)</p> <p>Modulation technique 802.11b: DSSS (Direct Sequence Spread Spectrum); 802.11a/802.11g: OFDM (Orthogonal Frequency Division Multiplexing) and DSSS Media Access Protocol: CSMA/CA with ACK</p> <p>Environmental range: Operating temperature: 0 to 45°C (32 to 113°F).</p>
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Accessory Product Details

Services

Package contents: Wireless LAN USB Adapter, Quick Install Guide, and CD-ROM

Also sold as the 3Com Wireless 11n Dual Band USB Adapter.

3-year, 4-hour onsite, 13x5 coverage for hardware (UW869E)

3-year, 4-hour onsite, 24x7 coverage for hardware (UW872E)

3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UW875E)

3-year, 24x7 SW phone support, software updates (UW878E)

1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR705E)

1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR706E)

1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HR707E)

4-year, 4-hour onsite, 13x5 coverage for hardware (UW870E)

4-year, 4-hour onsite, 24x7 coverage for hardware (UW873E)

4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW876E)

4-year, 24x7 SW phone support, software updates (UW879E)

5-year, 4-hour onsite, 13x5 coverage for hardware (UW871E)

5-year, 4-hour onsite, 24x7 coverage for hardware (UW874E)

5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UW877E)

5-year, 24x7 SW phone support, software updates (UW880E)

3 Yr 6 hr Call-to-Repair Onsite (UW881E)

4 Yr 6 hr Call-to-Repair Onsite (UW882E)

5 Yr 6 hr Call-to-Repair Onsite (UW883E)

1-year, 6 hour Call-To-Repair Onsite for hardware (HR709E)

1-year, 24x7 software phone support, software updates (HR708E)

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.

Summary of Changes

Date	Version History	Action	Description of Change:
24-Jul-2015	From Version 5 to 6	Changed	This QuickSpecs was retired; no further updates will be made.
03-Jul-2014	From Version 4 to 5	Changed	Configuration menu updated.
20-Dec-2013	From Version 3 to 4	Added	Configuration was added.
04-Nov-2011	From Version 2 to 3	Changed	Changes were made throughout, including changing the title.
03-June-2011	From Version 1 to 2	Changed	Accessories and Radio Characteristics were revised.

Summary of Changes

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

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