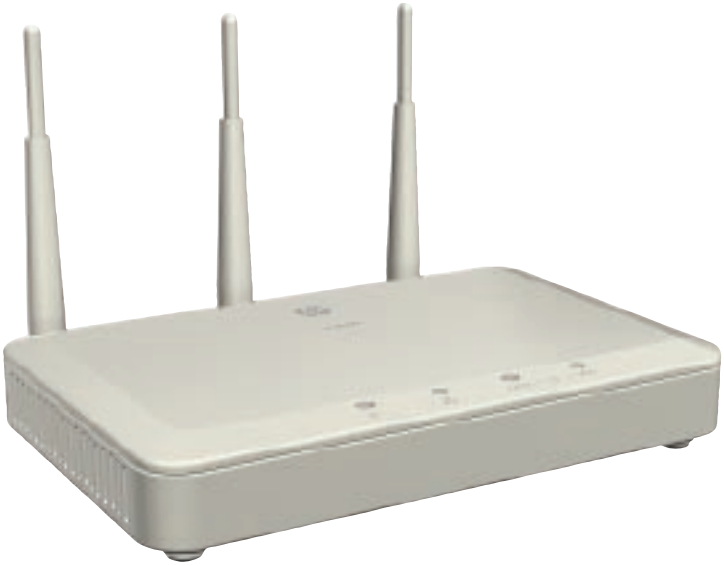

HP V-M200 802.11n Access Point Series

Product overview

The HP V-M200 802.11n Access Point provides Wireless Connectivity for your expanding network. Take full advantage of the next generation 802.11n standard with the V-M200's Dual Band capability while simultaneously supporting 802.11a or 802.11b/g devices. The new Web User Interface makes the V-M200 easy to set up, yet retains key functionality to keep your sensitive data secure.

Key features

- IEEE 802.11a/b/g/n Access Point
- Single Radio, Dual Band (2.4GHz and 5GHz)
- Independently Managed
- Easy to Use Web User Interface
- Powered by 802.3af PoE or included Power Supply

Features and benefits

Industry-leading warranty

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:**
  – **2.4GHz Frequency Band Support:** use your 802.11n wireless clients alongside legacy 802.11b/g devices
  – **5GHz Frequency Band Support:** operate your 802.11n and 802.11a devices in the 5GHz 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

- **4 Wireless Communities:** consolidates Quality of Service, Security, and VLAN settings into one easy to manage identifier per SSID
- **Service Class Segmentation:**
  – **Up to 4 SSIDs (One per Wireless Community):** allows administrator to identify multiple service sets for clients to access
  – **Up to 4 VLANs (One per Wireless Community):** IEEE 802.1Q VLAN tagging provides security between workgroups
  – **Wireless Community Based Prioritization:** allows the administrator to ensure 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, Monitor:** allows HP V-M200 802.11n Access Points to connect wirelessly to other HP V-M200 802.11n Access Points without a wired backbone. This is useful for extending the network across areas where no wired infrastructure exists.
- **Interoperability:** Wi-Fi Alliance certifications, including IEEE 802.11n Wi-Fi and WPA2 to help ensure multivendor interoperability
- **3 external 3x3 MIMO Omni-directional antennas:** enables the antennas to be configured for improved radio coverage and performance.
- **Quality of Service Management:**
  – 802.1p: map WMM prioritization to 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

♦ For as long as you own the product, with next-business-day advance replacement (available in most countries). The following hardware products have a five-year hardware warranty for the disk drive and lifetime hardware warranty (for as long as you own the product) for the rest of the module: HP ProCurve ONE Services zl Module, HP ProCurve Threat Management Services zl Module, and HP ProCurve MSM765zl Mobility Controller. The following hardware products and their related series modules have a one-year hardware warranty with extensions available: HP ProCurve Routing Switch 9300m series, HP ProCurve Switch 8100fl series, HP ProCurve Network Access Controller 800, and HP ProCurve DCM Controller. The following hardware products have a one-year hardware warranty with extensions available: HP ProCurve M111 Client Bridge, HP ProCurve MSM3xx-R Access Points, HP ProCurve MSM7xx Mobility and Access Controllers, HP ProCurve RF Manager IDS/IPS Systems, HP ProCurve MSM Power Supplies, HP ProCurve 1-Port Power Injector, HP ProCurve CNMS Appliances, and HP ProCurve MSM317 Access Device. Standalone software, upgrades, or licenses may have a different warranty duration. For details, refer to the ProCurve Software License, Warranty, and Support booklet at www.hp.com/networking/warranty.

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:** a wireless client is authenticated with a RADIUS server based on the MAC address of the client; this is useful for clients that have 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 the 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 static or dynamic keys of 40 or 120 keys:** Backwards 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

- **ProCurve Lifetime Warranty:** for as long as you own the product, with next-business-day advance replacement (available in most countries)
- **Electronic and telephone support:** limited electronic and telephone support is available from HP; refer to the HP website at **www.hp.com/networking/support** for details on the support provided and the period during which support is available
- **Software releases:** refer to the HP website at **www.hp.com/networking/support** for details on the software releases provided and the period during which software releases are available

HP V-M200 802.11n Access Point Series

Specifications

	 HP V-M200 802.11n Access Point (US) (J9467A)	 HP V-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	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)	Single (n/a/b/g)
Radio operation modes	Client access, Packet capture, Client bridge	Client access, Packet capture, 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
Physical characteristics		
Dimensions	5.04(d) x 7.68(w) x 1.26(h) in. (12.8 x 19.5 x 3.2 cm)	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)	0.84 lb. (.39 kg)
Enclosure	Indoor	Indoor
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), non-condensing	15% to 95% @ 104°F (40°C), non-condensing
Non-operating/Storage temperature	40°F to 158°F (-40°C to 70°C)	40°F to 158°F (-40°C to 70°C)
Non-operating/Storage relative humidity	15% to 95% @ 149°F (65°C), non-condensing	15% to 95% @ 149°F (65°C), non-condensing
Altitude	up to 15,000 ft. (4.6 km)	up to 15,000 ft. (4.6 km)
Acoustic	Power: 0 dB (No Fan)	Power: 0 dB (No Fan)
Electrical characteristics		
Description	1EEE 802.3af PoE Compliant or included 110-240V 50/60Hz External Power Supply	1EEE 802.3af PoE Compliant or included 110-240V 50/60Hz External Power Supply
Current	0.7 A	0.7 A
Maximum power rating	8.4 W	8.4 W
Antenna	External 2.4/5 Ghz 3x3 MIMO Omni-directional antennas	External 2.4/5 Ghz 3x3 MIMO Omni-directional antennas
Number of external antennas	3	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)	
European Union		2.4 - 2.472 GHz (13 channels) 5.150 - 5.240 GHz (4 channels)
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	FCC Part 15.247; FCC Part 15.407 (no DFS)	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	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	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	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 5GHz Support)	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 5GHz Support)
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.	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 V-M200 802.11n Access Point (US) (J9467A)		HP V-M200 802.11n Access Point (WW) (J9468A)	
Radio characteristics:				
IEEE 802.11n 5GHz @ 40MHz				
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
IEEE 802.11n 5GHz @ 20MHz				
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
IEEE 802.11n 2.4GHz @ 20MHz				
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
IEEE 802.11a				
Data rate	6 Mbps	54 Mbps		
Receiver sensitivity	-92 dBm	-76 dBm		
Transmit power	17 dBm	13 dBm		
IEEE 802.11b				
Data rate	1 Mbps	11 Mbps		
Receiver sensitivity	-94 dBm	-91 dBm		
Transmit power	19 dBm	19 dBm		
IEEE 802.11g				
Data rate	6 Mbps	54 Mbps		
Receiver sensitivity	-92 dBm	-76 dBm		
Transmit power	17 dBm	13 dBm		

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 802.11g 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

Specifications (continued)

	HP V-M200 802.11n Access Point (US) (J9467A)		HP V-M200 802.11n Access Point (US) (J9467A)	
HP V-M200 802.11n Access Point (US) (J9467A)				
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 V-M200 802.11n Access Point (WW) (J9468A)				
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 V-M200 802.11n Access Point Series accessories

Power Supply

HP 1-Port Power Injector (J9407A)

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 rganization. See the Specifications section of this series for more information.

Technology for better business outcomes

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

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