Overview

Models	
HP ProCurve MSM313 Access Point WW	J9350A
HP ProCurve MSM313 Access Point US	J9346A
HP ProCurve MSM313 Access Point JP	J9525A
HP ProCurve MSM323 Access Point WW	J9341A
HP ProCurve MSM323 Access Point US	J9337A

Key features

- Hotspot in a box
- Zero-configuration service interface
- Advanced bandwidth management capabilities
- Complete IP routing and networking services
- Integrated IEEE 802.11a/b/g MSM Access Point

Introduction

HP ProCurve MSM313 and MSM323 Access Points integrate a full-featured MultiService Mobility Access Point and MultiService Mobility Controller in a single turnkey unit. They are used to create easy-to-use public/guest Internet access (hotspot) services. The zero-configuration service interface adapts to client device configuration settings. Bandwidth management creates multiple service tiers and provides users with fair access to bandwidth. The access points provide secure user authentication, authorization, and accounting (AAA), enabling a wide range of free or fee-based service models. They support HTML and IEEE 802.1X login, and provide interfaces for centralized AAA, captive portal, and billing functions, allowing large multilocation networks.

Features and Benefits

Connectivity

- Auto-MDIX: automatically adjusts for straight-through or crossover cables on all 10/100 ports
- IEEE 802.3af Power over Ethernet (POE) support: 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

Mobility

- All-in-one simplicity: The HP ProCurve MSM313 and MSM323 Access Points combine a full-featured multiservice access point and multiservice controller in a single easy-to-deploy enclosure that is ideally suited for public hotspot networks and small enterprise deployments.
- Award-winning public/guest Internet access service: The ProCurve MSM313 and MSM323 Access Points provide high-speed guest Internet access for up to 25 patrons, guests, and partners. Guest access can be segmented from corporate applications. Easy, Web-based login via a captive, customized portal and zero-configuration service adapts to any client device's IP address and Web proxy settings.
- Rock-solid security: Security policies based on user credentials (IEEE 802.1X/EAP), hardware identifiers (MAC address and WEP key), or HTML login are enforced at the network edge to safeguard network and information integrity. Standards-based RADIUS interface provides remote authentication, authorization, and accounting (AAA) system integration and hardware-assisted encryption using WPA2/AES (IEEE 802.11i), WPA/RC4, and/or WEP. A built-in stateful firewall provides secure connection to the Internet.



Overview

- High-performance, multiservice networking: The ProCurve MSM313 and MSM323 Access Points can deliver multiple services simultaneously: networking policies tailored for Quality of Service (QoS), authentication, encryption, bandwidth allocation, and VLANs based on user, device, or application identity. End-to-end QoS based on TOS/DiffServ, IEEE 802.1p, and TCP/UDP port. IEEE 802.11e Wireless MultiMedia (WMM) and SpectraLink Voice Priority (SVP) provide voice performance.
- Rich management features: Activity statistics support per-user billing by data volume and elapsed session time. There is also integrated support for leading third-party hotspot billing services. The self-healing configuration automatically adjusts to changes in the RF environment. The series provides advanced IP networking capabilities, including Adaptive NAT, SMTP redirect, and DHCP services for transparent application support.
- Interoperability: Wi-Fi Alliance certifications, including IEEE 802.11g Wi-Fi and WPA2 to help ensure multivendor interoperability
- Virtual Service Communities (VSCs):
 - O Up to 16 SSIDs, each with unique MAC address, configurable SSID broadcasts
 - O Individual security and QoS profiles per VSC
 - O Configurable DTIM and minimum data rate per VSC
 - O Each VSC mapped to separate IEEE 802.1Q VLANs
 - o WMM and/or WMM-PS
 - O Security filter
 - O IP filter
- AP Client Access Control functions:
 - O IEEE 802.1x authentication using EAP-SIM, EAP-FAST, EAP-TLS, EAP-TTLS, and PEAP
 - o MAC address authentication using local or RADIUS access lists
 - O RADIUS AAA using EAP-MD5, PAP, CHAP, and MS-CHAPv2
 - o RADIUS Client (RFC 2865 and 2866) with location-aware support
 - O Layer 2 wireless client isolation
- Location flexibility: The series features a plenum-rated enclosure and is powered by IEEE 802.3af Power over Ethernet (PoE) or a power supply accessory (sold separately).

Security

- 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
- Local wireless bridge client traffic filtering: when enabled, prevents communication between wireless devices associated with the same access point
- IEEE 802.1X: provides port-based user authentication with support for Extensible Authentication Protocol (EAP) MD-5, TLS, TTLS, and PEAP with choice of AES, TKIP, and static or dynamic WEP encryption for protecting wireless traffic between authenticated clients and the access point

Quality of Service (QoS)

- IEEE 802.1p prioritization: delivers data to devices based on the priority and type of traffic
- SpectraLink voice priority (SVP) support: prioritizes SpectraLink voice IP packets sent from a SpectraLink NetLink SVP server to SpectraLink wireless voice handsets to help ensure excellent voice quality
- Wireless:
 - o L2/L3/L4 classification: IEEE 802.1 p VLAN priority, SpectraLink SVP, DiffServ, VTP/TCP, and Post
 - o Wi-Fi MultiMedia (WMM), IEEE 802.11e EDCF, and Service-Aware priority assigned by VSC
 - O Maximum VoIP call capacity: 12 active calls on IEEE 802.11a/b/g
- Network management:
 - O Fully manageable using HP ProCurve Manager 3.0 AU1 and HP ProCurve Mobility Manager 3.0 AU2
 - O SNMP v2c, SNMP v3, MIB-II with Traps, and RADIUS Authentication Client MIB (RFC 2618)
 - O Embedded HTML management tool with secure access (SSL and VPN)



Overview

- O Scheduled configuration and firmware upgrades from central server
- Diagnostic:
 - O Client event log records association, authentication, and DHCP events
 - O Packet capture tool for Ethernet and IEEE 802.11 interfaces (PCAP format)
 - O Data rate matrix

• RF management:

- O Automatically selects channel on power-up and continuously improves channel selection based on background interference scan
- O Configurable background rogue scanning
- O Automatically adjusts transmit power to reduce interference

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 Web site at: www.procurve.com/support for details on the support provided and the period during which support is available.
- Software releases: refer to the HP Web site at: www.procurve.com/support for details on the software releases provided and the period during which software releases are available.

* For as long as you own the product, with next-business-day advance replacement (available in most countries). 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, and HP ProCurve Network Access Controller 800. The following hardware mobility products have a one-year hardware limited 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, and HP ProCurve 1-Port Power Injector. Standalone software, upgrades, or licenses may have a different warranty duration. For details, refer to the ProCurve Software License, Warranty, and Support booklet at: http://www.procurve.com/warranty.

Accessories HP ProCurve Mobility	HP ProCurve MSM31x and MSM32x Power Supply	J9405A
Integrated Services Access Point Series		J9407A
HP ProCurve MSM313	HP ProCurve MSM31x and MSM32x Power Supply	J9405A
Access Point WW	HP ProCurve MSM310/MSM320 AP Mounting Bracket	J9403A
HP ProCurve MSM313	HP ProCurve MSM31x and MSM32x Power Supply	J9405A
Access Point US	HP ProCurve MSM310/MSM320 AP Mounting Bracket	J9403A
HP ProCurve MSM323	HP ProCurve MSM31x and MSM32x Power Supply	J9405A
Access Point WW	HP ProCurve MSM310/MSM320 AP Mounting Bracket	J9403A
HP ProCurve MSM323	HP ProCurve MSM31x and MSM32x Power Supply	J9405A
Access Point US	HP ProCurve MSM310/MSM320 AP Mounting Bracket	J9403A



Overview

Services HP ProCurve MSM313 Access Point WW	 3-year, 4-hour onsite, 13x5 coverage for hardware 3-year, 4-hour onsite, 24x7 coverage for hardware 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support 3-year, 24x7 SW phone support, software updates Refer to the HP Web site at: www.procurve.com/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. 	UN675E UN676E UN678E UN677E
HP ProCurve MSM313 Access Point US	3-year, 4-hour onsite, 13x5 coverage for hardware 3-year, 4-hour onsite, 24x7 coverage for hardware 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support 3-year, 24x7 SW phone support, software updates Refer to the HP Web site at: www.procurve.com/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.	UN675E UN676E UN678E UN677E
HP ProCurve MSM323 Access Point WW	3-year, 4-hour onsite, 13x5 coverage for hardware 3-year, 4-hour onsite, 24x7 coverage for hardware 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support 3-year, 24x7 SW phone support, software updates Refer to the HP Web site at: www.procurve.com/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.	UN663E UN664E UN666E UN665E
HP ProCurve MSM323 Access Point US	3-year, 4-hour onsite, 13x5 coverage for hardware 3-year, 4-hour onsite, 24x7 coverage for hardware 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support 3-year, 24x7 SW phone support, software updates Refer to the HP Web site at: www.procurve.com/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.	UN663E UN664E UN666E UN665E



HP ProCurve MSM313 Access Point WW	Ports	2 RJ-45 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Duplex: half or full				
(J9350A)		1 RJ-11 serial console port				
	Physical characteristics	Dimensions	6.52(d) x 6.4(w) x 1.88(h) in. (16.57 x 16.26 x 4.78 cm)			
		Weight	3.0 lb. (1.36 kg)			
		Enclosure	Indoor, plenum rated			
	Environment	Operating temperature	32°F to 122°F (0°C to 50°C)			
		Operating relative humidity	5% to 95%, non-condensing			
		Non-operating/Storage temperature	-40°F to 176°F (-40°C to 80°C)			
		Non-operating/Storage relative humidity	5% to 95%, non-condensing			
	Electrical characteristics	Description	5 VDC connector (power supply sold separately), IEEE 802.3af PoE compliant			
		Power consumption	6.5 W			
		Antenna Connector	(2) RP-SMA with diversity			
		Antenna	(2) 2dBi dual-band 2.4/5 GHz omnidirectional			
		Notes	Maximum power rating is the worst-case theoretical maximum power number with fully loaded PoE, 100% traffic, all ports plugged in, and all modules populated.			
	Frequency band and	FCC (US & Canada)	2.412 - 2.462 GHz (11 channels)			
	Operating		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)			
			5.260 - 5.320 GHz (4 channels)			
			5.500 - 5.700 GHz (11 channels)			
	Radio	FCC Part 15.247; FCC Part 15.407 (US); RSS-210 (Canada); EN 300 ARIB STD-T66; IDA Registration (Singapore); MIC approval (Korea); RG STD-33; ARIB STD-T71 (Japan); EN 301 893 (EU)				
	Safety	UL 1950; UL 2043; IEC 6	60950; EN 60950; CSA 22.2 No. 950-95			
	Emissions	EN 55022 Class B; EN 301 489-1; EN 301 489-17; ICES-003 Cla FCC Part 15, Class B				
	Medical	EN60601-1-2				
	RF Exposure	FCC Part 15.247; RSS-21	0; EN 300-328; ETS 301-398			
	Notes	Maximum transmit power	varies by country.			



Technical Specifications

Radio characteristics: IEEE	= 802.11a/b/g						
	IEEE 802.11a	IEEE 802.11c	IEEE a 802.11g	IEEE 802.11g	IEEE 802.11b	IEEE 802.11b	
Data rate	6 Mbps	54 Mbp		54 Mbps	1 Mbps	11 Mbps	
Receiver sensitivity	-87 dBm	-67 dBm	•	-70 dBm	-87 dBm	-87 dBm	
, Transmit power	18 dBm	12 dBm		13 dBm	18.5 dBm	18.5 dBm	
HP ProCurve MSM313 Access Point US (J9346A)	Ports	80	2 RJ-45 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Duplex: half or full 1 RJ-11 serial console port				
	Physical characteris		imensions		w) x 1.88(h) in. (1	6.57 x 16.26 x	
		w	/eight	3.0 lb. (1.36 l	<g)< td=""><td></td></g)<>		
			nclosure	Indoor, plenu	0,		
	Environment	0	perating temperature	•	= (0°C to 50°C)		
			perating relative unidity		5% to 95%, non-condensing		
			Non-operating/Storage -40°F to 176°F (-40°C temperature		°F (-40°C to 80°C	⊃°C to 80°C)	
		Ν	on-operating/Storage lative humidity	5% to 95%, non-condensing			
	Electrical characteristics		escription		5 VDC connector (power supply sold separately IEEE 802.3af PoE compliant		
		Po	ower consumption	6.5 W			
		A	ntenna Connector	(2) RP-SMA wi	(2) RP-SMA with diversity		
		A	ntenna	(2) 2dBi dual-	(2) 2dBi dual-band 2.4/5 GHz omnidirectiona		
			otes	theoretical mo loaded PoE, 1	Maximum power rating is the worst-case theoretical maximum power number with loaded PoE, 100% traffic, all ports plugge and all modules populated.		
	Frequency band and Operating		CC (US & Canada)	2.412 - 2.462 GHz (11 channels)			
				5.180 - 5.240 GHz (4 channels)			
				5.745 - 5.825 GHz (5 channels)			
		Ει	uropean Union	2.412 - 2.472	2 GHz (13 channe	els)	
				5.180 - 5.240) GHz (4 channels	5)	
				5.260 - 5.320) GHz (4 channels	5)	
				5.500 - 5.700) GHz (11 channe	els)	
	Radio		FCC Part 15.247; FCC Part 15.407 (US); RSS-210 (Canada); EN 300 ARIB STD-T66; IDA Registration (Singapore); MIC approval (Korea); RC STD-33; ARIB STD-T71 (Japan); EN 301 893 (EU)				
	Safety		L 1950; UL 2043; IEC			. 950-95	
	Emissions	1 3	EN 55022 Class B; EN 301 489-1; EN 301 489-17; ICES-003 Class B; FCC Part 15, Class B				



Radio characteristics: IEEI	-		FCC P Maxim	01-1-2 art 15.247; RSS-2 um transmit power	varies by countr	у.			
	IEEE 802.11a	IEE 802.		IEEE 802.11g	IEEE 802.11g	IEEE 802.11b	IEEE 802.11b		
Data rate	6 Mbps	54 N		6 Mbps	54 Mbps	1 Mbps	11 Mbps		
Receiver sensitivity	-87 dBm	-67 dBm		-87 dBm	-70 dBm	-87 dBm	-87 dBm		
Transmit power	18 dBm	12 d	Bm	18 dBm	13 dBm	18.5 dBm	18.5 dBm		
HP ProCurve MSM313 Access Point JP (J9352A)	Ports			2 RJ-45 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Duplex: half or full					
			1 RJ-1	1 serial console po	ort				
	Physical characteris	tics	Dimen	sions	6.52(d) x 6.4(4.78 cm)	w) x 1.88(h) in. (1	6.57 x 16.26 x		
			Weigh	t	3.0 lb. (1.36 l	<g)< td=""><td></td></g)<>			
			Enclosure		Indoor, plenum rated				
	Environment		Operating temperature		32°F to 122°F (0°C to 50°C)				
			Operating relative humidity		5% to 95%, non-condensing				
			Non-operating/Storage temperature		-40°F to 176°F (-40°C to 80°C)				
				perating/Storage • humidity	5% to 95%, no	5% to 95%, non-condensing			
	Electrical characteristics		Description		5 VDC conned IEEE 802.3af	ctor (power supply PoE compliant	sold separately),		
		Power	consumption	6.5 W	·				
		Antenr	a Connector	(2) RP-SMA wi	th diversity				
		Antenr	a	(2) 2dBi dual-	(2) 2dBi dual-band 2.4/5 GHz omnidir				
		Notes		Maximum power rating is the worst-case theoretical maximum power number with fu loaded PoE, 100% traffic, all ports plugged and all modules populated.					
	Frequency band and Operating		FCC (US & Canada)		2.412 - 2.462 GHz (11 channels)				
					5.180 - 5.240) GHz (4 channels	5)		
					5.745 - 5.825	5 GHz (5 channels	5)		
			Europe	ean Union	2.412 - 2.472	2 GHz (13 channe	els)		
				5.180 - 5.240) GHz (4 channels	3)			
				5.260 - 5.320 GHz (4 channels)					
					5.500 - 5.700) GHz (11 channe	els)		
	Radio		FCC Part 15.247; FCC Part 15.407 (US); RSS-210 (Canada); EN 300 328; ARIB STD-T66; IDA Registration (Singapore); MIC approval (Korea); RCR STD-33; ARIB STD-T71 (Japan); EN 301 893 (EU)						



Emissions EN 55022 Closs 8; EN 301 489-1; EN 301 489-17; ICES-003 Closs 8; FCC Part 15, Closs 8 Medical EN605001-12 RF Exposure FCC Part 15, 247; RSS-210; EN 300-328; ETS 301-398 Notes Maximum transmit power varies by country. Radio characteristics: IEEE		0.1.					050.05			
FCC Part 15, Class B Kedeical RF Exposure Notes Notes Maximum transmit power varies by country. Receiver sensitivity 802.11 la 802.11 la 802.11 la 802.11 la 802.11 g 802.11 g 802.11 b 802.11 b 802.11 b Receiver sensitivity 87 dBm -67 dBm -87 dBm -87 dBm -87 dBm -87 dBm Transmit power 18 dBm -12 dBm -13 dBm -13 dBm -18.5 dBm -		•		UL 1950; UL 2043; IEC 60950; EN 60950; CSA 22.2 No. 950-95						
RF Exposure Notes FCC Part 15.247; RSS-210; EN 300-328; ETS 301-398 Notes Maximum transmit power varies by county. Radio characteristics: IEEE 802.11a/b/g IEEE IEEE Receiver S02.11a B02.11a B02.11g B02.11g B02.11g B02.11g B02.11g B02.11b B02.11b Data rate 6 Mbps 54 Mbps 64 Mbps 54 Mbps 14 Mbps 11 Mbps Receiver sensitivity -87 dBm -67 dBm -87 dBm 13 dBm 13 dBm 18.5 dBm Transmit power 18 dBm 12 dBm 18 dBm 13 dBm 18.5 dBm 18.5 dBm HP ProCurve MSM323 Access Point WW Ports 2 RI-45 outo-sensing 10/100 ports (IEEE 802.3 Type 108ase-T, IEEE 802.3		Emissions								
Note Maximum transmit power varies by county. Redio characteristics: IEEE B02,11 a 802,11 a 807 abs 18 abs 10 abs 10 abs		Medical	E	N60601-1-2						
Radio characteristics: IEEE 802.11a/b/g IEEE		RF Exposure	F	CC Part 15.247; RSS-21	0; EN 300-328	3; ETS 301-398				
IEEE IIEEE IIIEEE IIIEEE IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		Notes	Ν	Aaximum transmit power	varies by countr	γ.				
802.11a 802.11g 802.11g 802.11g 802.11b 802.11b Data rate 6 Mbps 54 Mbps 6 Mbps 54 Mbps 1 Mbps 1 Mbps Receiver sensitivity -87 dBm -67 dBm -87 dBm -70 dBm -87 dBm -87 dBm -87 dBm Transmit power 18 dBm 12 dBm 18 dBm 13 dBm 13 dBm 18.5 dBm 18.5 dBm HP ProCurve MSM323 Access Point WW (J9341A) Ports 2 RJ-45 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3 u Type 100Base-TQ; Duples: hold or full HP indication 1 RJ-11 serial console port Enclosure Indicor, plenum rated Physical characteristics Dimensions 6.52(d) x 6.4(w) x 1.88(h) in. (16.56 x 16.26 x 4.78 cm) Weight 3.01b. (1.36 kg) Enclosure Indicor, plenum rated Environment Operating relative humidity 32°F to 122°F (0°C to 50°C) Operating relative humidity 5% to 95%, non-condensing Electrical characteristics Description 5 VDC connector (power supply sold separately), IEEE 802.307 Pez compliant Power consumption 8 6 W Antenna 40 2Bi dual-ban	Radio characteristics: IEE	E 802.11a/b/g								
Data rate 6 Mbps 54 Mbps 6 Mbps 54 Mbps 1 Mbps 11 Mbps Receiver sensitivity -87 dBm -67 dBm -87 dBm -70 dBm -87 dBm -87 dBm -87 dBm Transmit power 18 dBm 12 dBm 18 dBm 13 dBm 18.5 dBm 18.5 dBm 18.5 dBm HP ProCurve MSM323 Access Point WW (J9341A) Ports 2 RJ-45 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3 u Type 100Base-TQ) Duples: holf or full 18.5 dBm 18.5 dBm 18.5 dBm Physical characteristics Dimensions 6.52(d) x 6.4(w) x 1.88(h) in. (16.56 x 16.26 x 4.76 cm) 4.76 cm) Weight 3.0 lb. (1.36 kg) Enclosure Indoor, plenum rated Environment Operating relative 5% to 95%, non-condensing Non-operating/Storage relative humidity 5% to 95%, non-condensing 5% to 95%, non-condensing Electrical characteristics Description EVEC connector (power supply sold separately), IEEE 802.3 of PoE compliant Power consumption 8.6 W Antenna Connector 40°F to 176°F (-40°C to 80°C) Frequency band and Operating FCC (US & Canada) 2.412 - 2.462 GHz (11 channels) 5.180 - 5.240 GHz (andicateristics <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>										
Receiver sensitivity Transmit power -87 dBm -67 dBm -87 dBm -70 dBm -87 dBm 18.5 dBm HP ProCurve MSM323 Accesses Point WW (J9341A) Ports 2 RJ-45 auto-sensing 10/100 ports (IEEE 802.3 Type 108ase-T, IEEE Accesses Point WW (J9341A) Ports 2 RJ-45 auto-sensing 10/100 ports (IEEE 802.3 Type 108ase-T, IEEE Accesses Point WW (J9341A) Physical characteristics Dimensions 6.52(d) x 6.4(w) x 1.88(h) in, (16.56 x 16.26 x 4.78 cm) Weight 3.0 lb. [1.36 kg) Enclosure Indoor, plenum rated Dperating relative humidity 000 perating relative humidity 5% to 95%, non-condensing Non-operating/Storage relative humidity 5 VDC connector (power supply sold separately), IEEE 802.3 of PoE compliant Power consumption 8.6 W Antenna (4) 2dB dual-band 2.4/5 GHz annibar with fully loaded PoE 100% traffic, all ports plugged in, and all modules populated. Frequency band and Operating FCC (US & Canada) 2.412 - 2.462 CHz (1 channels) 5.180 - 5.240 CHz (4 channels) 5.180 - 5.240 CHz (4 channels) 5.180 - 5.240 CHz (4 channels) 5.741 - 6.820 CHz (4 channels)	Data rate	6 Mbps 54	4 Mbr	os 6 Mbps	54 Mbps	1 Mbps	11 Mbps			
Transmit power 18 dBm 12 dBm 18 dBm 13 dBm 13 dBm 18.5 dBm HP ProCurve MSM323 Access Point WW (J9341A) Ports 2 RJ-45 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.30 Type 100Base-TX); Duplex: half or full 1 RJ-11 serial console port Physical characteristics Dimensions 6.52(d) x 6.4(w) x 1.88(h) in. (16.56 x 16.26 x 4.78 cm) Weight 3.0 lb. (1.36 kg) Environment Operating temperature Non-operating/Storage relative humidity 30'F to 176°F (-40°C to 80°C) Electrical characteristics Description 5 VDC connector (power supply sold separately), IEEE 802.30 Post Gover august diversity Electrical characteristics Description 8.6 W Antenna Connector (4) 24B duol-band 2.4/5 GHz omnidirectional Notes Frequency band and Operating FCC (US & Canada) 2.412 - 2.462 GHz (11 channels) 5.745 - 5.825 GHz (5 channels) Frequency band and Operating FCC (US & Canada) 2.412 - 2.442 GHz (13 channels) 5.180 - 5.240 GHz (4 channels)	Receiver sensitivity			•		•				
Access Point WW (J9341A) B02.3u Type 100Base-TX); Duplex: half or full 1 RJ-11 serial console port Physical characteristics Dimensions A.78 cm Weight 3.0 lb. (1.36 kg) Enclosure Indoor, plenum rated Operating temperature Operating relative Non-operating/Storage relative humidity Electrical characteristics Description SVDC connector (power supply sold separately), IEEE 802.3af PoE compliant Power consumption 8.6 W Antenna (4) 2dBi dual-band 2.4/5 GHz omnidirectional Notes Frequency band and Operating FCC (US & Canada) FCC (US & Canada) FCC (US & Canada) FCC (US & Canada) S.745 - 5.825 GHz (3 channels) S.745 - 5.825 GHz (4 channels) S.745 - 5.825 GHz (4 channels) S.745 - 5.825 GHz (4 channels) S.745 - 5.825 GHz (3 channels) S.745 - 5.825 GHz (4 channels) S.745 - 5.82	•				13 dBm	18.5 dBm				
Physical characteristics Dimensions 6.52(d) x 6.4(w) x 1.88(h) in. (16.56 x 16.26 x 4.78 cm) Weight 3.0 lb. (1.36 kg) Enclosure Indoor, plenum rated Environment Operating temperature 32°F to 122°F (0°C to 50°C) 5% to 95%, non-condensing Non-operating/Storage relative humidity -40°F to 176°F (-40°C to 80°C) 5% to 95%, non-condensing Non-operating/Storage relative humidity -40°F to 176°F (-40°C to 80°C) 5% to 95%, non-condensing Electrical characteristics Description 5 VDC connector (power supply sold separately), IEEE 802.3af PoE compliant Power consumption 8.6 W Antenna (4) 2dBi dual-band 2.4/5 GHz omnidirectional Notes Notes Maximum power rating is the worst-case theoretical maximum power rating is plugged in, and all modules populated. Frequency band and Operating FCC (US & Canada) 2.412 - 2.462 GHz (11 channels) 5.745 - 5.825 GHz (5 channels) 5.745 - 5.825 GHz (5 channels) 5.745 - 5.825 GHz (5 channels) European Union 2.412 - 2.472 GHz (12 channels) 5.180 - 5.240 GHz (4 channels) 5.180 - 5.240 GHz (4 channels)	Access Point WW	Ports		•			se-T, IEEE			
4.78 cm) 4.78 cm) Weight 3.0 lb. (1.36 kg) Environment Operating temperature 32°F to 122°F (0°C to 50°C) Operating relative 5% to 95%, non-condensing humidity -40°F to 176°F (-40°C to 80°C) Non-operating/Storage -40°F to 176°F (-40°C to 80°C) temperature 5% to 95%, non-condensing Non-operating/Storage -40°F to 176°F (-40°C to 80°C) temperature Sv to 95%, non-condensing Non-operating/Storage -40°F to 176°F (-40°C to 80°C) temperature Sv to 95%, non-condensing Non-operating/Storage -40°F to 176°F (-40°C to 80°C) temperature Sv to 95%, non-condensing Power consumption 8.6 W Antenna (4) 2dBi dual-band 2.4/5 GHz omnidirectional Notes Maximum power rating is the worst-case theoretical maximum power number with fully loaded PoE, 100% traffic, all ports plugged in, and all modules populated. Operating FCC (US & Canada) 2.412 - 2.462 GHz (11 channels) S.745 - 5.825 GHz (5 channels) 5.745 - 5.825 GHz (5 channels) 5.745 - 5.825 GHz (5 channels) European Union 2.412 - 2.472 GHz (13 channels) 5.180 - 5.240 GHz (4 channels	(J9341A)		1	RJ-11 serial console po	rt					
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temperature Non-operating/Storage relative humidity 5% to 95%, non-condensing Electrical characteristics Description 5 VDC connector (power supply sold separately), IEEE 802.3af PoE compliant Power consumption 8.6 W Antenna Connector (4) RP-SMA with diversity Antenna (4) 2dBi dual-band 2.4/5 GHz omnidirectional Notes Maximum power rating is the worst-case theoretical maximum power number with fully loaded PoE, 100% traffic, all ports plugged in, and all modules populated. Frequency band and Operating FCC (US & Canada) 2.412 - 2.462 GHz (11 channels) 5.745 - 5.825 GHz (5 channels) 5.745 - 5.825 GHz (5 channels) 5.180 - 5.240 GHz (4 channels) 5.180 - 5.240 GHz (4 channels) 5.180 - 5.240 GHz (4 channels) 5.180 - 5.240 GHz (4 channels) 5.180 - 5.240 GHz (4 channels) 5.180 - 5.240 GHz (4 channels) 5.180 - 5.240 GHz (4 channels)				• •	5% to 95%, non-condensing					
relative humidity Electrical characteristics Description 5 VDC connector (power supply sold separately), IEEE 802.3af PoE compliant Power consumption 8.6 W Antenna Connector (4) RP-SMA with diversity Antenna (4) 2dBi dual-band 2.4/5 GHz omnidirectional Notes Maximum power rating is the worst-case theoretical maximum power number with fully loaded PoE, 100% traffic, all ports plugged in, and all modules populated. Frequency band and Operating Frequency band and CPC (US & Canada) 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)					-40°F to 176°	°F (-40°C to 80°C)			
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Antenna Connector(4) RP-SMA with diversityAntenna(4) 2dBi dual-band 2.4/5 GHz omnidirectionalNotesMaximum power rating is the worst-case theoretical maximum power number with fully loaded PoE, 100% traffic, all ports plugged in, and all modules populated.Frequency band and OperatingFCC (US & Canada)2.412 - 2.462 GHz (11 channels) 5.180 - 5.240 GHz (4 channels) 5.745 - 5.825 GHz (5 channels)European Union2.412 - 2.472 GHz (13 channels) 5.180 - 5.240 GHz (4 channels) 5.180 - 5.240 GHz (4 channels) 5.260 - 5.320 GHz (4 channels)		Electrical characteristics		Description			sold separately),			
Antenna(4) 2dBi dual-band 2.4/5 GHz omnidirectionalNotesMaximum power rating is the worst-case theoretical maximum power number with fully loaded PoE, 100% traffic, all ports plugged in, and all modules populated.Frequency band and OperatingFCC (US & Canada)Operating5.180 - 5.240 GHz (11 channels) 5.745 - 5.825 GHz (5 channels)European Union2.412 - 2.472 GHz (13 channels) 5.180 - 5.240 GHz (4 channels)			Р	ower consumption	8.6 W					
Antenna(4) 2dBi dual-band 2.4/5 GHz omnidirectionalNotesMaximum power rating is the worst-case theoretical maximum power number with fully loaded PoE, 100% traffic, all ports plugged in, and all modules populated.Frequency band and OperatingFCC (US & Canada)2.412 - 2.462 GHz (11 channels)5.180 - 5.240 GHz (4 channels)5.745 - 5.825 GHz (5 channels)European Union2.412 - 2.472 GHz (13 channels)5.180 - 5.240 GHz (4 channels)5.180 - 5.240 GHz (4 channels)5.260 - 5.320 GHz (4 channels)5.260 - 5.320 GHz (4 channels)			A	Antenna Connector	(4) RP-SMA with diversity					
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European Union 2.412 - 2.472 GHz (13 channels) 5.180 - 5.240 GHz (4 channels) 5.260 - 5.320 GHz (4 channels)										
5.180 - 5.240 GHz (4 channels) 5.260 - 5.320 GHz (4 channels)			E	uropean Union		-				
5.260 - 5.320 GHz (4 channels)						•	•			
					5.500 - 5.700 GHz (11 channels)					



	Radio		FCC Part 15.247; FCC Part 15.407 (US); RSS-210 (Canada); EN 300 328; ARIB STD-T66; IDA Registration (Singapore); MIC approval (Korea); RCR STD-33; ARIB STD-T71 (Japan); EN 301 893 (EU					
	Safety		UL 1950	; UL 2043; IEC 6	60950; EN 6095	50; CSA 22.2 No.	950-95	
	Emissions		22 Class B; EN 3 t 15, Class B	01 489-1; EN 3	01 489-17; ICES-	003 Class B;		
	Medical		EN6060					
	RF Exposure		FCC Par	+ 15.247; RSS-21	0; EN 300-328	; ETS 301-398		
	Notes		Maximur	n transmit power	varies by countr	у.		
Radio characteristics: Duc	ıl a/b/g + a/b/g							
	IEEE 802.11a	IEE 802.		IEEE 802.11g	IEEE 802.11g	IEEE 802.11b	IEEE 802.11b	
Data rate	6 Mbps	54 M	lbps	6 Mbps	54 Mbps	1 Mbps	11 Mbps	
Receiver sensitivity	-87 dBm	-67 c	Bm	-87 dBm	-70 dBm	-87 dBm	-87 dBm	
Transmit power	18 dBm	12 d	Bm	18 dBm	13 dBm	18.5 dBm	18.5 dBm	
HP ProCurve MSM323 Access Point US (J9337A)	Ports	2 RJ-45 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T, IEI 802.3u Type 100Base-TX); Duplex: half or full 1 RJ-11 serial console port					se-T, IEEE	
	Physical characteristics		Dimensions		6.52(d) x 6.4(w) x 1.88(h) in. (16.57 x 16.26 x 4.78 cm)			
			Weight		3.0 lb. (1.36 kg)			
			Enclosure		Indoor, plenum rated			
	Environment		Operatir	ng temperature	32°F to 122°F	(0°C to 50°C)		
			Operating relative humidity		5% to 95%, no	on-condensing		
			Non-operating/Storage temperature		-40°F to 176°F (-40°C to 80°C)			
		Non-operating/Storage relative humidity		5% to 95%, non-condensing				
	Electrical characteristics		Description		5 VDC connector (power supply sold separately), IEEE 802.3af PoE compliant			
			Power co	onsumption	8.6 W			
			Antenna	Connector	(4) RP-SMA with diversity			
			Antenna		(4) 2 dBi dual-band 2.4/5 GHz omnidirectional			
			Notes		Maximum power rating is the worst-case theoretical maximum power number with fully loaded PoE, 100% traffic, all ports plugged in, and all modules populated.			
	Frequency band and	ł	FCC (US	5 & Canada)	2.412 - 2.462	2 GHz (11 channe	ls)	
	Operating				5.180 - 5.240 GHz (4 channels)			
					5.745 - 5.825 GHz (5 channels)			



Technical Specifications

		Europe	ean Union	2.412 - 2.472	2 GHz (13 channe	els)			
				5.180 - 5.240) GHz (4 channels	5)			
			5.260 - 5.320 GHz (4 channels)						
				5.500 - 5.700) GHz (11 channe	els)			
	Radio	FCC Part 15.247; FCC Part 15.407 (US); RSS-210 (Canada); EN 300 328; ARIB STD-T66; IDA Registration (Singapore); MIC approval (Korea); RCR STD-33; ARIB STD-T71 (Japan); EN 301 893 (EU							
	Safety	UL 195	UL 1950; UL 2043; IEC 60950; EN 60950; CSA 22.2 No. 950-95						
	Emissions	EN 55022 Class B; EN 301 489-1; EN 301 489-17; ICES-003 Class B; FCC Part 15, Class B							
	Medical	EN60601-1-2							
	RF Exposure	FCC Part 15.247; RSS-210; EN 300-328; ETS 301-398							
	Notes	Maximum transmit power varies by country.							
Radio characteristics: Dua	ll a/b/g + a/b/g								
	IEEE 802.11a	IEEE 802.11a	IEEE 802.11g	IEEE 802.11g	IEEE 802.11b	IEEE 802.11b			
Data rate	6 Mbps	54 Mbps	6 Mbps	54 Mbps	1 Mbps	11 Mbps			
Receiver sensitivity	-87 dBm	-67 dBm	-87 dBm	-70 dBm	-87 dBm	-87 dBm			
Transmit power	18 dBm	12 dBm	18 dBm	13 dBm	18.5 dBm	18.5 dBm			

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