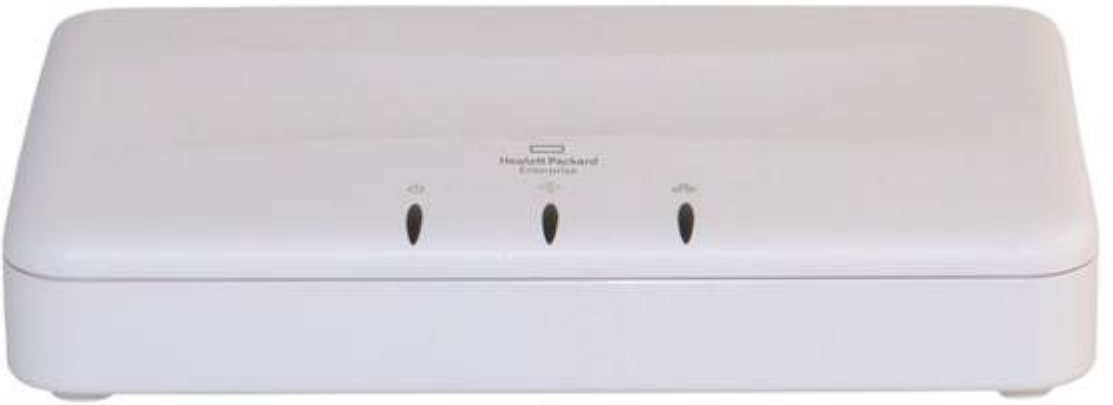
Overview

HPE OfficeConnect M210 802.11n Access Point Series



Models

HPE OfficeConnect M210 802.11n (AM) Access Point	JL023A
HPE OfficeConnect M210 802.11n (WW) Access Point	JL024A

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

Overview

Product overview

Ideal for small businesses, the HPE OfficeConnect M210 802.11n Access Points Series 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 5.0GHz 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/g support. The series is part of the OfficeConnect portfolio of Hewlett Packard Enterprise small business wireless networking products.

HPE OfficeConnect M210 802.11n Access Points support standalone operation ideal for smaller sites, with “clustering” of up to 4 HPE M210 access points, should additional access points be desired for better coverage.. Clustering technology propagates wireless network configurations across all access points for consistent security and uninterrupted wireless client roaming. It simplifies network set-up for a small site should a second or third access point be installed to improve wireless connectivity. Clustering technology requires no wireless controller or additional hardware, enabling you to keep your network easily accessible.

HPE OfficeConnect M210 802.11n Access Point Series includes a Limited Lifetime Warranty. This warranty provides advance hardware replacement with next business day shipment in most countries, limited 24x7 telephone support available from HPE for the first 90 days, and limited electronic and business hours telephone support is available from HPE for the entire warranty period.

Features and benefits

Management

- Centralized wireless LAN management
  - Simplified access point management
    Configuration parameters enabled on one AP pass to all members (up to 4 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.

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 to reduce the time and cost involved in supplying local power at each AP location
- Spanning Tree Protocol (IEEE 802.1D)

Overview

Prevents network loops.

- IPv6 support
  The access point provides native support for IPv6, the newest version of the Internet Protocol (IP), as well as the previous IPv4 standard.

Mobility

- Service-class segmentation
  - Up to 4 SSIDs
    Allows administrator to identify multiple service sets for clients to access.
  - Up to 4 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 Mb/s performance and supports a maximum of 32 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 HPE OfficeConnect M210 802.11n Access Points to connect wirelessly to other HPE OfficeConnect M210 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 APs 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 AP
- 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 AP

Overview

Warranty and support

- Limited Lifetime Warranty
  This series comes with a Limited Lifetime Warranty providing advance hardware replacement with next business day shipment in most countries, 24x7 phone support available for the first 90 days, and electronic and business hours phone support for the entire warranty period. See http://www.hpe.com/networking/warrantysummary for full warranty and support information included with your product purchase.

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.

HPE OfficeConnect M210 802.11n (AM) Access Point • 1 RJ-45 autosensing 10/100/1000 ports	JL023A See Configuration **NOTE:**1, 3
HPE OfficeConnect M210 802.11n (WW) Access Point • 1 RJ-45 autosensing 10/100/1000 ports	JL024A See Configuration **NOTE:**2, 3

Configuration Rules:

Note 1	Only available in AMS. (Warning in Clic only)
Note 2	Not available in NA. (Warning in Clic only)
Note 3	Localization required. (See Localization Menu)

Technical Specifications

HPE OfficeConnect M210 802.11n (AM) Access Point (JL023A)

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	802.11a/b/g/n
	Radio operation modes	Client access, Client bridge
	AP operation modes	Autonomous
	Wi-Fi Alliance Certification	a/b/g/n Wi-Fi Certified
	Antenna	Internal 2.4/5 GHz MIMO omni-directional antennas
	Number of internal antennas	2
Physical characteristics	Dimensions	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)
Mounting and 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	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 power supply
	AC voltage	100 - 240 VAC
	Current	0.7 A
	Maximum power rating	5.3 W
	PoE power	7 W PoE
	Notes	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	US	2.412 - 2.462 GHz (11 channels) 5.180 - 5.240 GHz (4 channels) 5.745 - 5.825 GHz (5 channels)
Radio	FCC Part 15.247; FCC Part 15.407 (no DFS); RSS-210, Issue 8; RSS-Gen, Issue 3	
Safety	UL 60950-1 2nd Edition; CSA C22.2 No. 60950-1-07 2nd Edition	
RF Exposure	Canada RSS-102; FCC Bulletin OET-65 Supplement C	

Technical Specifications

Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.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 Hewlett Packard Enterprise sales office

HPE OfficeConnect M210 802.11n (WW) Access Point (JL024A)

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	802.11a/b/g/n
	Radio operation modes	Client access, Client bridge
	AP operation modes	Autonomous
	Wi-Fi Alliance Certification	a/b/g/n Wi-Fi Certified
	Antenna	Internal 2.4/5 GHz MIMO omni-directional antennas
	Number of internal antennas	2
Physical characteristics	Dimensions	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)
Mounting and 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	Low-speed fan: 0 dB, High-speed fan: 0 dB (no fan)
Electrical characteristics	Description	1EEE 802.3af PoE Compliant or included 110-240 V 50/60 Hz external power supply
	AC voltage	100 - 240 VAC
	Current	0.4 A
	Maximum power rating	5.3 W
	PoE power	7 W PoE
	Notes	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).
Frequency band and operating 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 by selecting country in UI)	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)

Technical Specifications

	5.745 - 5.825 GHz (5 channels)
Radio	EN 300 328; EN 301-489-1; EN 301-489-17; EN 301 893 (EU); NCCLP0002 (Taiwan)
Safety	EN 60950-1; IEC 60950-1 (ed.2); IEC 60950-1 (ed.2): am1
RF Exposure	EN 50385
Services	Refer to the Hewlett Packard Enterprise website at http://www.hpe.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 Hewlett Packard Enterprise sales office

Radio characteristics:
HPE OfficeConnect M210 802.11n (AM) Access Point (JL023A)

IEEE 802.11n 5 GHz @ 20 MHz	Data rate	MCS 0 Mbps	MCS 7 Mbps	MCS 8 Mbps	MCS 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 MHz	Data rate	MCS 0 Mbps	MCS 7 Mbps	MCS 8 Mbps	MCS 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 MHz	Data rate	MCS 0 Mbps	MCS 7 Mbps	MCS 8 Mbps	MCS 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 MHz	Data rate	MCS 0 Mbps	MCS 7 Mbps	MCS 8 Mbps	MCS 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	-85 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		

Technical Specifications

IEEE 802.11g	Data rate	6 Mbps	54 Mbps
	Receiver sensitivity	-87 dBm	-72 dBm
	Transmit power	17 dBm	13 dBm

Radio characteristics:
HPE OfficeConnect M210 802.11n (WW) Access Point (JL024A)

IEEE 802.11n 5 GHz @ 20 MHz	Data rate	MCS 0 Mbps	MCS 7 Mbps	MCS 8 Mbps	MCS 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 MHz	Data rate	MCS 0 Mbps	MCS 7 Mbps	MCS 8 Mbps	MCS 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 MHz	Data rate	MCS 0 Mbps	MCS 7 Mbps	MCS 8 Mbps	MCS 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 MHz	Data rate	MCS 0 Mbps	MCS 7 Mbps	MCS 8 Mbps	MCS 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		

HPE OfficeConnect M210 802.11n (AM) Access Point (JL023A)

MCS Index	800 nS		400 nS	
	20 MHz Rate (Mbps)	40 MHz Rate (Mbps)	20 MHz Rate (Mbps)	40 MHz Rate (Mbps)

Technical Specifications

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

HPE OfficeConnect M210 802.11n (WW) Access Point (JL024A)

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

Summary of Changes

Date	Version History	Action	Description of Change:
06-May-2016	From Version 3 to 4	Changed	Document name changed to HPE OfficeConnect M210 802.11n Access Point Series. SKU descriptions updated.
01-Dec-2015	From Version 2 to 3	Changed	Updated Overview and Technical Specifications
01-Dec-2014	From Version 1 to 2	Changed	Warranty and support updated

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