# QuickSpecs



## 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

## 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..

HPE OficeConnect M210 802.11n Access Points support standalone operation ideal for smaller sites, with "clustering" of up to 4 access points, should additional access pointed 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. The series is part of the OfficeConnect portfolio of Hewlett Packard Enterprise small business wireless networking products..

## Overview

HPE OfficeConnect M210 802.11n Access Points 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)**
  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.

## Overview

- **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

### 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<br>• 1 RJ-45 autosensing 10/100/1000 ports | JL023A<br>See Configuration<br>**NOTE:** 3 |
| No Power Cord<br>• No Localized Power Cord Selected | JL023A#AC3 |
| HPE OfficeConnect M210 802.11n (WW) Access Point<br>• 1 RJ-45 autosensing 10/100/1000 ports | JL024A<br>See Configuration<br>**NOTE:** 3 |

**Configuration Rules:**

**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 |
| | **Voltage** | 100 - 240 VAC, rated |
| | **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).<br>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)<br>5.180 - 5.240 GHz (4 channels)<br>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 | |
| **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 | |

## Technical Specifications

**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 |
| | **Voltage** | 100 - 240 VAC, rated |
| | **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)<br>5.180 - 5.240 GHz (4 channels)<br>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)<br>5.180 - 5.240 GHz (4 channels)<br>5.260 - 5.320 GHz (4 channels)<br>5.500 - 5.700 GHz (11 channels)<br>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 | |

## Technical Specifications

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

## Technical Specifications

**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 | | |
| **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 |

## Technical Specifications

| | | | | | |
|---|---|---|---|---|---|
| **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) |
| 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 |

## Technical Specifications

| | | | | |
|---|---|---|---|---|
| 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: |
|---|---|---|---|
| 01-Aug-2016 | From Version 4 to 5 | Changed | Adding #AC3 Option on Configuration section.<br><br>Product overview updated |
| 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 |

**Sign up for updates**



To learn more, visit: **http://www.hpe.com/networking**



c04347354 - 15023 - Worldwide - V5 - 1-August-2016

Hewlett Packard Enterprise