Overview

| Models                                 |        |
|--|--------|
| HP MSM410 Access Point (US)            | J9426B |
| HP MSM410 Access Point (JP)            | J9529B |
| HP MSM410 Single Radio 802.11n AP (IL) | J9616A |
| HP MSM410 Access Point (WW)            | J9427C |

## **Key features**

- Single radio IEEE 802.11 a/b/g/n access point
- Capability to work with wireless controller and in autonomous mode
- Comprehensive WLAN security
- Protection against rogue IEEE 802.11a/b/g/n access points and client
- Indoor enclosure

## **Product overview**

offers intelligent IEEE 802.11n wireless access points, ranging from our single-radio 802.11a/b/g/n to our dual 802.11a/b/g/n access points. The MSM access points are advanced wireless devices that provide consistent, easy-to-manage connectivity that expands your existing network. The access points maintain your network without interruption and reduce bottlenecks and network complexity by determining where data needs to go throughout the network. The MSM access points provide complete wireless coverage for greater reliability and connectivity and can be used in managed mode as well as autonomous mode without a controller.

Working in unison with HP MSM controllers, the HP MSM-802.11n Access Point Series delivers high-performance networking solutions. The enhanced controller architecture scales to IEEE 802.11n without requiring a controller replacement. The MSM controller provides advanced radio resource management (RRM), including client load balancing and interference mitigation. The MSM wireless controllers support a fast-roaming capability, an important feature, especially for VoIP communications.

Wireless security is comprehensive with integrated Wireless IDS and support for internal and external authentication, authorization, and accounting (AAA) servers; built-in stateful firewall; per-user VLAN mapping; and authentication.

## **Features and benefits**

### Management

• Wi-Fi Clear Connect

provides a system-wide approach to improve WLAN reliability by proactively determining and adjusting to changing RF conditions; helps optimize WLAN performance by identifying rogue activity and making decisions at a system-wide level

- Advanced radio resource management
  - Automatic radio power adjustments include real-time power adjustments based on changing environmental conditions and signal coverage adjustment
     Automatic radio channel
    - provides intelligent channel switching and real-time Interference detection
  - Intelligent client load balancing
     determines number of clients across neighboring AE

determines number of clients across neighboring APs and adjusts client allocation to balance the load

 Airtime fairness provides equal RF transmission time for wireless clients



### Overview

- Integrated IDS (Premium Mobility version required)
  - detects and locates unknown and rogue devices
- Access point management

provides secure Web browser (SSL, VPN), command-line interface, SNMP v2c, SNMP v3, MIB-II with traps, and RADIUS Authentication Client MIB (RFC 2618); offers embedded HTML management tool with secure access (SSL and VPN); implements scheduled configuration and firmware upgrades from a central controller

- HP Intelligent Management Center and Wireless Services Manager Software provides central management for discovery, logging, status, and configuration management
- Diagnostics

client event log records association, authentication, and DHCP events; packet capture tool for Ethernet and IEEE 802.11 interfaces (PCAP format); data rate matrix

• Enhanced AP survivability continues to operate using the old IP address while the AP searches for a new controller

### Quality of Service (QoS)

• Rate limiting

supports per-wireless client ingress-enforced maximums and per-wireless client, per-queue guaranteed minimums

• Centralized traffic

Layer 2 and Layer 3 QoS settings are maintained when using Mobility Traffic Manager or guest access

• IEEE 802.1p prioritization

delivers data to devices based on the priority and type of traffic

- Wireless
  - L2/L3/L4 classification
    - IEEE 802.1p VLAN priority, SpectraLink SVP, and DiffServ
  - Assigned by VSC
     Wi-Fi MultiMedia (WMM), IEEE 802.11e EDCF, and Service-Aware priority
  - Maximum VoIP call capacity 12 active calls on IEEE 802.11 a/b/g/n
- 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

### Connectivity

• 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

• Auto-MDIX

automatically adjusts for straight-through or crossover cables on all 10/100 ports

### Mobility

• Anywhere, anytime wireless coverage

includes a single radio IEEE 802.11a/b/g/n access point; per-radio software-selectable configuration of frequency bands; selfhealing, self-optimizing local mesh that extends network availability; Wi-Fi Alliance Certification for interoperability with all IEEE 802.11a/b/g/n client devices; and IEEE 802.3af PoE

- Medical standards meets the European EN60601-1-2 standard for healthcare
- Interoperability

Wi-Fi Alliance Certifications, including IEEE 802.11g Wi-Fi and WPA2, to help ensure multivendor interoperability



### **Overview**

### • Virtual Service Communities (VSCs)

includes up to 16 SSIDs, each with unique MAC address and configurable SSID broadcasts; individual security and QoS profiles per VSC; configurable DTIM and minimum data rate per VSC; VSCs that can be mapped to separate IEEE 802.1Q VLANs; WMM and/or WMM-PS; a security filter; and an IP filter

- 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
  - RADIUS Client (RFC 2865 and 2866) with location-aware support
  - O Layer 2 wireless client isolation

### Security

- Integrated IDS support (Premium Mobility version required)
- Automated AP and client classification reduces manual effort (administrator can override AP classification)
- Comprehensive detection capabilities detects a wide range of attacks
- Flexible event reporting enables configuration of which events will result in notifications
- Location tracking capabilities helps identify the location of the rogue device
- Flexible deployment models supports time slicing or dedicating a radio to detect fulltime
- IEEE 802.1X support

provides port-based user authentication with support for Extensible Authentication Protocol (EAP) MD5, 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

• 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

- **TKIP/WEP encryption** is supported only on legacy IEEE 802.11a/b/g clients as it has been deprecated from the IEEE 802.11n standard
- Local wireless bridge client traffic filtering when enabled, prevents communication between wireless devices associated with the same access point

### Additional information

• RFC support

refer to the "Mobility Specification Sheet" for a list of RFCs and other industry standards supported by the MSM solution at <a href="http://h17007.www1.hp.com/docs/mobility/4AA3-3883ENW.pdf">http://h17007.www1.hp.com/docs/mobility/4AA3-3883ENW.pdf</a>

### Warranty and support

• 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; to reach our support centers, refer to
 www.hp.com/networking/contact-support; for details on the duration of support provided with your product purchase, refer
 to www.hp.com/networking/warrantysummary



### **Overview**

### • Software releases

to find software for your product, refer to www.hp.com/networking/support; for details on the software releases available with your product purchase, refer to www.hp.com/networking/warrantysummary

†HP warranty includes repair or replacement of hardware for as long as you own the product, with next business day advance replacement (available in most countries). The disk drive included with HP AllianceOne Advanced Services and Services zl Modules, HP Threat Management Services zl Module, HP AllianceOne Extended zl Module with Riverbed Steelhead, HP MSM765zl Mobility Controller and HP Survivable Branch Communication zl Module powered by Microsoft<sup>®</sup> Lync has a five-year hardware warranty. For details, refer to the Software license and hardware warranty statements at 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 MSM410 Acce<br>• 1 RJ-45 at | ess Point (US)<br>utosensing 10/100/1000 port   | J9426B<br>See Configuration<br>Note:1 |  |  |
|--------------------------------|---|---------------------------------------|--|--|
| HP MSM410 Acce<br>• 1 RJ-45 at | ess Point (WW)<br>utosensing 10/100/1000 port   | J9427C<br>See Configuration<br>Note:2 |  |  |
| HP MSM410 Acce<br>• 1 RJ-45 au | ess Point (JP)<br>utosensing 10/100/1000 port   | J9529B                                |  |  |
|                                | HP MSM410 Single Radio 802.11n AP (IL) <ul> <li>1 RJ-45 autosensing 10/100/1000 port</li> </ul> |                                       |  |  |
| Configuration Ru               | ıles:   |                                       |  |  |
| Note 1                         | Only available in US. (Warning in Clic only)  |                                       |  |  |
| Note 2                         | Not available US and Israel. (Warning in Clic only)   |                                       |  |  |
| Note 3                         | Only available in Israel. (Warning in Clic only)  |                                       |  |  |
| External Power Supplies        |   |                                       |  |  |
| Access Point Options           |   |                                       |  |  |
| HP MSM31x/MSI<br>• Not Racke   | 432x Power Supply<br>ed   | J9405B<br>See Configuration<br>Note:1 |  |  |
| HP 1-port Power<br>• Not Racke | J9407B<br>See Configuration<br>Note:1   |                                       |  |  |
| Configuration Rules:           |   |                                       |  |  |
| Note 1                         | Localization required. (See Localization Menu)  |                                       |  |  |
| External Antenna               |   |                                       |  |  |

HP 5 dBi Indoor/Outdoor Omnidirectional Antenna

J8441A



## Configuration

| HP 8 dBi Outdoor Omnidirectional Antenna          | J8444A |
|---|--------|
| HP 3 dBi Dual Band Diversity Antenna              | J8997A |
| HP 7 dBi Dual Band Directional Antenna            | J8999A |
| HP Antenna Lightning Arrester                     | J8996A |
| HP Dual Band Indoor Short Omnidirectional Antenna | J9401A |



## **Technical Specifications**

| HP MSM410 Access Point (US) (J9426B)<br>HP MSM410 Access Point (JP) (J9529B)<br>HP MSM410 Single Radio 802.11n AP (IL) (J9616A)<br>HP MSM410 Access Point (WW) (J9427C) |  |  |  |  |
|---|--|--|--|--|
| 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); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only |  |  |  |
|   | 1 RJ-45 serial console port  |  |  |  |
| AP characteristics  | Radios   | Single (a/b/g/n)   |  |  |
|   | Radio operation modes  | Client access, Local mesh, Packet capture  |  |  |
|   | AP operation modes   | Autonomous and controlled  |  |  |
|   | Wi-Fi Alliance<br>Certification  | a/b/g/n Wi-Fi Certified  |  |  |
| Physical characteristics  | Dimensions   | 5.19(w) x 6.16(d) x 1.94(h) in (13.17 x 15.64 x 4.94 cm)   |  |  |
|   | Weight   | 0.72 lb (0.33 kg) mounting bracket   |  |  |
|   | Enclosure  | Indoor, plenum rated   |  |  |
| Memory and processor  | Processor  | Single core @ 384 MHz, 128 MB flash, 256 MB SDRAM  |  |  |
| Mounting  | Includes two mounting clip   | 15   |  |  |
| Environment   | Operating temperature  | 32°F to 122°F (0°C to 50°C)  |  |  |
|   | Operating relative<br>humidity   | 5% to 95%, noncondensing   |  |  |
|   | Nonoperating/Storage<br>temperature  | -40°F to 158°F (-40°C to 70°C)   |  |  |
|   | Nonoperating/Storage<br>relative humidity  | 5% to 95%, noncondensing   |  |  |
| <b>Electrical characteristics</b>   | Description  | IEEE 802.3af PoE compliant for Gigabit Ethernet  |  |  |
|   | Maximum power rating   | 8 W  |  |  |
|   | Antenna  | (3) Integrated, dual-band 2.4/5 GHz omnidirectional antennas   |  |  |
|   | Number of internal<br>antennas   | 3  |  |  |
| Frequency band and<br>Operating channels  | FCC  | 2.412 - 2.462 GHz (1 - 11 channels)<br>5.180 - 5.240 GHz (36 - 48 channels)<br>5.260 - 5.320 GHz (52 - 64 channels)<br>5.500 - 5.700 GHz (100 - 140 (excluding 120, 124 and 128) channels)<br>5.745 - 5.825 GHz (149 - 165 channels) |  |  |
|   | European Union   | 2.412 - 2.472 GHz (1 - 13 channels)<br>5.180 - 5.240 GHz (36 - 48 channels)  |  |  |
|   | Rest of World (Actual<br>channels designated by<br>selecting country in UI)  | 2.412 - 2.472 GHz (1 - 13 channels)<br>5.180 - 5.240 GHz (36 - 48 channels)<br>5.260 - 5.320 GHz (52 - 64 channels)<br>5.500 - 5.700 GHz (100 - 140 channels)<br>5.745 - 5.825 GHz (149 - 165 channels)                              |  |  |



## **Technical Specifications**

| •           |  |   |  |
|-------------|--|---|--|
|             | Taiwan   | 2.412 - 2.462 GHz (1 - 11 channels)<br>5.280 - 5.320 GHz (56 - 64 channels)<br>5.745 - 5.825 GHz (149 - 165 channels)   |  |
|             | Japan  | 2.412 - 2.472 GHz (1 - 13 channels)<br>5.180 - 5.240 GHz (36 - 48 channels)<br>5.260 - 5.320 GHz (52 - 64 channels)   |  |
|             | Israel   | 2.412 - 2.472 GHz (1 - 13 channels)<br>5.180 - 5.240 GHz (36 - 48 channels)<br>5.260 - 5.320 GHz (52 - 64 channels)   |  |
|             | European Union (J9427B)  | 2.412 - 2.472 GHz (1 - 13 channels)<br>5.180 - 5.240 GHz (36 - 64 channels)<br>5.260 - 5.320 GHz (52 - 64 channels)<br>5.500 - 5.700 GHz (100 - 140 (excluding 5600-5650 MHz) channels) |  |
| Radio       | FCC Part 15.247; FCC Part 15.407 (US); RSS-210 (Canada); EN 300 328; ARIB STD-T66; IDA Registration<br>(Singapore); RCR STD-33; ARIB STD-T71 (Japan); EN 301 893 (EU); KCC<br>approval (Korea)   |   |  |
| Safety      | UL 2043; UL 60950-1; IEC 6   | 50950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1  |  |
| Medical     | EN60601-1-2  |   |  |
| RF Exposure | FCC Bulletin OET-65C; RSS<br>Code 6; Australian Radiatic   | -102; CFR 47, Part 2, Subpart J; ANSI/IEEE C95.1 (99); Ministry of Health Safety<br>on Protection Std.  |  |
| Features    | Single radio: IEEE 802.11n for high-throughput applications and IEEE 802.11a/b/g for legacy support<br>- Integrated antennas for both IEEE 802.11a/b/g (diversity) and 802.11n (3x3 MIMO)<br>- Will operate the radio at full power on IEEE 802.3af PoE for Gigabit Ethernet   |   |  |
| Emissions   | EN 55022 Class B, EN 301   | 489-1, EN 301 489-17, ICES-003 Class B, FCC Part 15, Class B  |  |
| Notes       | Maximum transmit power   | varies by country.  |  |
| Services    | <ul> <li>Maximum transmit power varies by country.</li> <li>3-year, 4-hour onsite, 13x5 coverage for hardware (UN683E)</li> <li>3-year, 4-hour onsite, 24x7 coverage for hardware (UN684E)</li> <li>3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 SW phone support and SW updates (UN686E)</li> <li>3-year, 24x7 SW phone support, software updates (UN685E)</li> <li>1-year, post-warranty, 4-hour onsite, 13x5 coverage for hardware (HR939E)</li> <li>1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware (HR940E)</li> <li>1-year, post-warranty, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (HR941E)</li> <li>4-year, 4-hour onsite, 13x5 coverage for hardware (US013E)</li> <li>4-year, 4-hour onsite, 24x7 coverage for hardware (US014E)</li> <li>4-year, 4-hour onsite, 24x7 coverage for hardware (US015E)</li> <li>4-year, 24x7 SW phone support, software updates (US016E)</li> <li>5-year, 4-hour onsite, 13x5 coverage for hardware (US017E)</li> <li>5-year, 4-hour onsite, 24x7 coverage for hardware (US017E)</li> <li>5-year, 4-hour onsite, 24x7 coverage for hardware (US018E)</li> <li>5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (US019E)</li> <li>5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (US019E)</li> <li>5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (US019E)</li> <li>5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (US019E)</li> <li>5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (US019E)</li> <li>5-year, 4-hour onsite (UW416E)</li> <li>4 Y6 hr Call-to-Repair Onsite (UW417E)</li> <li>5 Yr 6 hr Call-to-Repair Onsite (UW418E)</li> <li>1-year, 6 hour Call-To-Repair Onsite for hardware (HR943E)</li> <li>1-year, 24x7 software phone support, software updates (HR942E)</li> </ul> |   |  |
|             | 1-year, 6 hour Call-To-Rep<br>1-year, 24x7 software pho  | air Onsite for hardware (HR943E)  |  |



## **Technical Specifications**

1-year, 24x7 software phone support, software updates + 4 hour hardware exchange (HS831E) 3-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS832E)

3-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS833E) 4-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS834E)

4-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS835E) 5-year, 24x7 software phone support, software updates + Next Business Day Hardware Exchange (HS836E)

5-year, 24x7 software phone support, software updates + 4 hour Hardware Exchange (HS837E)

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.

#### NOTE: These radio characteristics apply to all the products in this series.

|                               | - FF 3 F       |                 |
|-------------------------------|----------------|-----------------|
| IEEE 802.11n 5 GHz @ 20 MHz   |                |                 |
| Data rate                     | MCSO/MCS8 Mbps | MCS7/MCS15 Mbps |
| Receiver sensitivity          | -95 dBm        | -77 dBm         |
| Transmit power                | 18 dBm         | 10 dBm          |
| IEEE 802.11n 5 GHz @ 40 MHz   |                |                 |
| Data rate                     | MCSO/MCS8 Mbps | MCS7/MCS15 Mbps |
| Receiver sensitivity          | -92 dBm        | -74 dBm         |
| Transmit power                | 17 dBm         | 10 dBm          |
| IEEE 802.11n 2.4 GHz @ 20 MHz |                |                 |
| Data rate                     | MCSO/MCS8 Mbps | MCS7/MCS15 Mbps |
| Receiver sensitivity          | -96 dBm        | -79 dBm         |
| Transmit power                | 19 dBm         | 10 dBm          |
| IEEE 802.11n 2.4 GHz @ 40 MHz |                |                 |
| Data rate                     | MCSO/MCS8 Mbps | MCS7/MCS15 Mbps |
| Receiver sensitivity          | -91 dBm        | -75 dBm         |
| Transmit power                | 17 dBm         | 10 dBm          |
| IEEE 802.11a                  |                |                 |
| Data rate                     | 6 Mbps         | 54 Mbps         |
| Receiver sensitivity          | -95 dBm        | -82 dBm         |
| Transmit power                | 18 dBm         | 12 dBm          |
| IEEE 802.11b                  |                |                 |
| Data rate                     | 1 Mbps         | 11 Mbps         |



## **Technical Specifications**

| Receiver sensitivity | -96 dBm  | -92 dBm  |
|----------------------|----------|----------|
| Transmit power       | 18.5 dBm | 18.5 dBm |
|                      |          |          |
| IEEE 802.11g         |          |          |
| Data rate            | 6 Mbps   | 54 Mbps  |
| Receiver sensitivity | -96 dBm  | -83 dBm  |
| Transmit power       | 18 dBm   | 13 dBm   |

## Standards and protocols Mobility

| (applies to all products in | IEEE 802.11a High Speed Physical Layer in the 5 GHz Band               |
|-----------------------------|--|
| series)                     | IEEE 802.11b Higher-Speed Physical Layer Extension in the 2.4 GHz Band |
|                             | IEEE 802.11d Global Harmonization                                      |
|                             | 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                   |

| MCS Index | 800 nS Guard Interval |                    | 400 nS Gua         | nd Interval        |
|-----------|-----------------------|--------------------|--------------------|--------------------|
|           | 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 MSM-802.11n AccessPower SupplyPoint Series accessoriesHP 1-Port Power Injector

J9407B



## Accessory Product Details

| HP 1-port Power Injector<br>(J9407B) | Physical characteristics          | Dimensions<br>Weight   | 5.71(d) x 2.36(w) x 1.22(h) in. (14.5 x 6 x 3.1 cm)<br>1 lb. (0.45 kg) |
|--------------------------------------|-----------------------------------|--|--|
|                                      | Environment                       | Operating temperature  | 32°F to 104°F (0°C to 40°C)  |
|                                      |                                   | Operating relative<br>humidity   | 5% to 93%, noncondensing   |
|                                      |                                   | Nonoperating/Storage<br>temperature  | -4°F to 158°F (-20°C to 70°C)  |
|                                      |                                   | Nonoperating/Storage<br>relative humidity  | 5% to 95%, noncondensing   |
|                                      |                                   | Altitude   | up to 10,000 ft. (3 km)  |
|                                      | <b>Electrical characteristics</b> | Voltage  | 100-240 VAC  |
|                                      |                                   | Current  | 0.3/0.2 A  |
|                                      |                                   | Frequency  | 50/60 Hz   |
|                                      |                                   | Notes  | IEEE 802.3af compliant   |
|                                      | Safety                            | UL 60950; EN 60950   |  |
|                                      | Emissions                         | EN 55024; EN 55022 (CISPR 22) Class B with FTP Cabling; FCC Part 15, Cl<br>with FTP cabling<br>The 1-port power converter has 1 AC power cord input, 1 RJ-45 10/100/<br>Mbps port for data coming from the network infrastructure, and 1 RJ-45<br>data plus IEEE 802.3af-compliant PoE for Gigabit Ethernet to power the<br>access point.<br>Refer to the HP website at: www.hp.com/networking/services for detail<br>the service-level descriptions and product numbers. For details about so<br>and response times in your area, please contact your local HP sales offi |  |
|                                      | Notes                             |  |  |
|                                      | Services                          |  |  |

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

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