HP E-802.11n Access Point Series

Data sheet

Product overview

HP offers intelligent IEEE 802.11n wireless access points, ranging from our single-radio IEEE 802.11n/a/b/g to our dual 802.11 n/a/b/g and a/b/g access points. The E-series 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 E-series MSM access points provide complete wireless coverage for greater reliability and connectivity. The HP IEEE 802.11n-capable RF Security sensor brings security to the network edge by providing scalable 24 x 7 IDS/IPS capabilities that prevent security breaches on IEEE 802.11a/b/g and 802.11n wireless networks. The E-series MSM access points and RF Security sensor require a single Power over Ethernet (PoE)-cable drop, and are IEEE 802.3af compliant and support a plug-and-play automatic configuration.

Key features

- Single and dual radio
- IEEE 802.11 a/b/g/n access points
- Increased network speed and capacity
- Protection against rogue 802.11a/b/g/n AP/client
- Indoor enclosure

Features and benefits

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

- **Network management:**
  - Fully manageable using HP Manager and HP Mobility Manager
  - SNMP v2c, SNMP v3, MIB-II with Traps, and RADIUS Authentication Client MIB (RFC 2618)
  - Embedded HTML management tool with secure access (SSL and VPN)
  - Scheduled configuration and firmware upgrades from central server

- **Diagnostic:**
  - Client event log records association, authentication, and DHCP events
  - Packet capture tool for Ethernet and IEEE 802.11 interfaces (PCAP format)
  - Data rate matrix

Intrusion detection/prevention system (IDS/IPS)

- **Protection against rogue IEEE 802.11a/b/g/n access points and wireless clients:** HP E-MSM415 RF Security Sensors continuously scan for detection, classification, and prevention of wireless threats on IEEE 802.11a/b/g and 802.11n wireless networks

- **Provides 24 x 7 detection, classification, and prevention capabilities:** HP E-MSM415 RF Security Sensors are able to continuously provide detection, classification, and prevention capabilities, even when the connectivity to the HP RF Manager IDS/IPS Controller is lost. The HP E-MSM415 Security Sensor supports both A and E Series WLAN deployments.

- **Signature-based detection:** detects attacks that have known attack patterns; IPS maintains a signature database that contains the pattern definitions for known attacks that can be automatically updated using a subscription service

- **Protocol anomaly-based detection:** detects attacks that use anomalies in application protocol payloads

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

- **Anywhere, anytime wireless coverage:**
  - Single- and dual-radio IEEE 802.11a/b/g and 802.11n access points
  - Per-radio software-selectable configuration of frequency bands
  - Self-healing, self-optimizing local mesh extends network availability
  - Wi-Fi Alliance Certified for interoperability with all IEEE 802.11a/b/g/n client devices
  - IEEE 802.3af PoE or external power cord on selected models

- **Interoperability:** Wi-Fi Alliance certifications, including IEEE 802.11g Wi-Fi and WPA2 to help ensure multivendor interoperability

- **Virtual Service Communities (VSCs):**
  - Up to 16 SSIDs, each with unique MAC address, configurable SSID broadcasts
  - Individual security and QoS profiles per VSC
  - Configurable DTIM and minimum data rate per VSC
  - Each VSC can be mapped to separate IEEE 802.1Q VLANs
  - WMM and/or WMM-PS
  - Security filter
  - IP filter

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- **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
  - Layer 2 wireless client isolation
- **Auto Channel Select (ACS):** helps reduce radio co-channel interference by automatically selecting an unoccupied radio channel

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) 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

Warranty and support

- **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 www.hp.com/networking/warranty for details on the support provided and the period during which support is available

- **Software releases:** refer to www.hp.com/networking/warranty for details on the software releases provided and the period during which software releases are available for your product(s)

HP E-802.11n Access Point Series

Specifications

	HP E-MSM410 Access Point US (J9426B)	HP E-MSM410 Access Point WW (J9427B)	HP E-MSM410 Access Point JP (J9529B)
Ports	1 RJ-45 auto-sensing 10/100/1000 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T); Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only	1 RJ-45 auto-sensing 10/100/1000 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T); Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only	1 RJ-45 auto-sensing 10/100/1000 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T); Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only
	1 RJ-45 serial console port	1 RJ-45 serial console port	1 RJ-45 serial console port
AP characteristics			
Radios	Single (n/a/b/g)		Single (n/a/b/g)
Radio operation modes	Client access, Local mesh, Packet capture		Client access, Local mesh, Packet capture
AP operation modes	Autonomous and controlled		Autonomous and controlled
Wi-Fi Alliance Certification	a/b/g/n Wi-Fi Certified		a/b/g/n Wi-Fi Certified
Physical characteristics			
Dimensions	6.16(d) x 5.19(w) x 1.94(h) in. (15.64 x 13.17 x 4.94 cm)	6.16(d) x 5.19(w) x 1.94(h) in. (15.64 x 13.17 x 4.94 cm)	6.16(d) x 5.19(w) x 1.94(h) in. (15.64 x 13.17 x 4.94 cm)
Weight	0.72 lb. (0.33 kg) mounting bracket	0.72 lb. (0.33 kg) mounting bracket	0.72 lb. (0.33 kg) mounting bracket
Enclosure	Indoor, plenum rated	Indoor, plenum rated	Indoor, plenum rated
Mounting	Includes two Mounting Clips	Includes two Mounting Clips	Includes two Mounting Clips
Environment			
Operating temperature	32°F to 122°F (0°C to 50°C)	32°F to 122°F (0°C to 50°C)	32°F to 122°F (0°C to 50°C)
Operating relative humidity	5% to 95%, non-condensing	5% to 95%, non-condensing	5% to 95%, non-condensing
Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Non-operating/Storage relative humidity	5% to 95%, non-condensing	5% to 95%, non-condensing	5% to 95%, non-condensing
Electrical characteristics			
Description	IEEE 802.3af PoE compliant for Gigabit Ethernet	IEEE 802.3af PoE compliant for Gigabit Ethernet	IEEE 802.3af PoE compliant for Gigabit Ethernet
Maximum power rating	8 W	8 W	8 W
Antenna	(3) Integrated, dual-band 2.4/5 GHz omnidirectional antennas	(3) Integrated, dual-band 2.4/5 GHz omnidirectional antennas	(3) Integrated, dual-band 2.4/5 GHz omnidirectional antennas
Number of internal antennas	3		3
Frequency band and Operating channels			
FCC	2.412 - 2.462 GHz (1 - 11 channels) 5.180 - 5.240 GHz (36 - 48 channels) 5.260 - 5.320 GHz (52 - 64 channels) 5.500 - 5.700 GHz (100 - 140 (excluding 120, 124 and 128) channels) 5.745 - 5.825 GHz (149 - 165 channels)	2.412 - 2.462 GHz (1 - 11 channels) 5.180 - 5.240 GHz (36 - 48 channels) 5.260 - 5.320 GHz (52 - 64 channels) 5.500 - 5.700 GHz (100 - 140 (excluding 120, 124 and 128) channels) 5.745 - 5.825 GHz (149 - 165 channels)	2.412 - 2.462 GHz (1 - 11 channels) 5.180 - 5.240 GHz (36 - 48 channels) 5.260 - 5.320 GHz (52 - 64 channels) 5.500 - 5.700 GHz (100 - 140 (excluding 120, 124 and 128) channels) 5.745 - 5.825 GHz (149 - 165 channels)
EN	2.412 - 2.472 GHz (1 - 13 channels) 5.180 - 5.240 GHz (36 - 48 channels) 5.260 - 5.320 GHz (52 - 64 channels) 5.500 - 5.700 GHz (100 - 140 (excluding 120, 124 and 128) channels)	2.412 - 2.472 GHz (1 - 13 channels) 5.180 - 5.240 GHz (36 - 48 channels) 5.260 - 5.320 GHz (52 - 64 channels) 5.500 - 5.700 GHz (100 - 140 (excluding 120, 124, and 128) channels)	2.412 - 2.472 GHz (1 - 13 channels) 5.180 - 5.240 GHz (36 - 48 channels) 5.260 - 5.320 GHz (52 - 64 channels) 5.500 - 5.700 GHz (100 - 140 (excluding 120, 124 and 128) channels)
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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)	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)	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 2043; UL 60950-1; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1	UL 2043; UL 60950-1; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1	UL 2043; UL 60950-1; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1
Emissions	EN 55022 Class B; EN 60601-1-2; EN 301 489-1; EN 301 489-17; ICES-003 Class B; FCC Part 15, Class B	EN 55022 Class B; EN 60601-1-2; EN 301 489-1; EN 301 489-17; ICES-003 Class B; FCC Part 15, Class B	EN 55022 Class B; EN 60601-1-2; EN 301 489-1; EN 301 489-17; ICES-003 Class B; FCC Part 15, Class B
RF Exposure	FCC Bulletin OET-65C; RSS-102	FCC Bulletin OET-65C; RSS-102	FCC Bulletin OET-65C; RSS-102
Features	Single radio: IEEE 802.11n for high-throughput applications and IEEE 802.11a/b/g for legacy support - Integrated antennas for both IEEE 802.11a/b/g (diversity) and 802.11n (3x3 MIMO) - Will operate the radio; full power on IEEE 802.3af PoE for Gigabit Ethernet	Integrated antennas for both IEEE 802.11a/b/g (diversity) and 802.11n (3x3 MIMO)	Single radio: IEEE 802.11n for high-throughput applications and IEEE 802.11a/b/g for legacy support - Integrated antennas for both IEEE 802.11a/b/g (diversity) and 802.11n (3x3 MIMO) - Will operate the radio; full power on IEEE 802.3af PoE for Gigabit Ethernet - Will operate both radios; full power on IEEE 802.3af PoE for Gigabit Ethernet

Specifications (continued)

	HP E-MSM410 Access Point US (J9426B)	HP E-MSM410 Access Point WW (J9427B)	HP E-MSM410 Access Point JP (J9529B)
Notes	Maximum transmit power varies by country.	Maximum transmit power varies by country.	Maximum transmit power varies by country.
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UN683E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UN684E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UN686E) 3-year, 24x7 SW phone support, software updates (UN685E) 4-year, 4-hour onsite, 13x5 coverage for hardware (US013E) 4-year, 4-hour onsite, 24x7 coverage for hardware (US014E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (US015E) 4-year, 24x7 SW phone support, software updates (US016E) 5-year, 4-hour onsite, 13x5 coverage for hardware (US017E) 5-year, 4-hour onsite, 24x7 coverage for hardware (US018E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (US019E) 5-year, 24x7 SW phone support, software updates (US020E) 3 Yr 6 hr Call-to-Repair Onsite (UW416E) 4 Yr 6 hr Call-to-Repair Onsite (UW417E) 5 Yr 6 hr Call-to-Repair Onsite (UW418E) 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.	3-year, 4-hour onsite, 13x5 coverage for hardware (UN683E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UN684E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UN686E) 3-year, 24x7 SW phone support, software updates (UN685E) 4-year, 4-hour onsite, 13x5 coverage for hardware (US013E) 4-year, 4-hour onsite, 24x7 coverage for hardware (US014E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (US015E) 4-year, 24x7 SW phone support, software updates (US016E) 5-year, 4-hour onsite, 13x5 coverage for hardware (US017E) 5-year, 4-hour onsite, 24x7 coverage for hardware (US018E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (US019E) 5-year, 24x7 SW phone support, software updates (US020E) 3 Yr 6 hr Call-to-Repair Onsite (UW416E) 4 Yr 6 hr Call-to-Repair Onsite (UW417E) 5 Yr 6 hr Call-to-Repair Onsite (UW418E) 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.	3-year, 4-hour onsite, 13x5 coverage for hardware (UN683E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UN684E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UN686E) 3-year, 24x7 SW phone support, software updates (UN685E) 4-year, 4-hour onsite, 13x5 coverage for hardware (US013E) 4-year, 4-hour onsite, 24x7 coverage for hardware (US014E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (US015E) 4-year, 24x7 SW phone support, software updates (US016E) 5-year, 4-hour onsite, 13x5 coverage for hardware (US017E) 5-year, 4-hour onsite, 24x7 coverage for hardware (US018E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (US019E) 5-year, 24x7 SW phone support, software updates (US020E) 3 Yr 6 hr Call-to-Repair Onsite (UW416E) 4 Yr 6 hr Call-to-Repair Onsite (UW417E) 5 Yr 6 hr Call-to-Repair Onsite (UW418E) Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

Specifications (continued)

	HP E-MSM410 Access Point US (J9426B)	HP E-MSM410 Access Point WW (J9427B)	HP E-MSM410 Access Point JP (J9529B)

Radio characteristics:
IEEE 802.11n 5 GHz @ 20 MHz

Data rate	MCS0/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	MCS0/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	MCS0/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	MCS0/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
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
(applies to all products in series)

Mobility
IEEE 802.11a High Speed Physical Layer in the 5 GHz Band
IEEE 802.11b Higher-Speed Physical Layer Extension in the 2.4 GHz Band
IEEE 802.11d 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

Specifications (continued)

	HP E-MSM410 Access Point US (J9426B)	HP E-MSM410 Access Point WW (J9427B)	HP E-MSM410 Access Point JP (J9529B)

HP E-MSM410 Access Point US (J9426B)

MCS Index	800 nS Guard Interval		400 nS Guard 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

HP E-MSM410 Access Point WW (J9427B)

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

Specifications (continued)

	HP E-MSM410 Access Point US (J9426B)	HP E-MSM410 Access Point WW (J9427B)	HP E-MSM410 Access Point JP (J9529B)

HP E-MSM410 Access Point JP (J9529B)

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

Specifications (continued)

	HP E-MSM422 Access Point US (J9358B)	HP E-MSM422 Access Point WW (J9359B)
Ports	1 RJ-45 auto-sensing 10/100/1000 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T); Media Type: Auto-MDIX; Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only	1 RJ-45 auto-sensing 10/100/1000 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T); Media Type: Auto-MDIX; Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only
	1 RS-232C DB-9 console port	1 RS-232C DB-9 console port
AP characteristics		
Radios	Dual (a/b/g + n/a/b/g)	Dual (a/b/g + n/a/b/g)
Radio operation modes	Client access, Local mesh, Packet capture	Client access, Local mesh, Packet capture
AP operation modes	Autonomous and controlled	Autonomous and controlled
Wi-Fi Alliance Certification	a/b/g/n Wi-Fi Certified	a/b/g/n Wi-Fi Certified
Physical characteristics		
Dimensions	6.7(d) x 8.8(w) x 2.6(h) in. (17.02 x 22.35 x 6.6 cm)	6.7(d) x 8.8(w) x 2.6(h) in. (17.02 x 22.35 x 6.6 cm)
Weight	3.97 lb. (1.8 kg) mounting bracket	3.97 lb. (1.8 kg) mounting bracket
Enclosure	Indoor, plenum rated	Indoor, plenum rated
Mounting	Includes two Mounting Clips	Includes two Mounting Clips
Environment		
Operating temperature	32°F to 122°F (0°C to 50°C)	32°F to 122°F (0°C to 50°C)
Operating relative humidity	5% to 95%, non-condensing	5% to 95%, non-condensing
Non-operating/Storage temperature	-40°F to 176°F (-40°C to 80°C)	-40°F to 176°F (-40°C to 80°C)
Non-operating/Storage relative humidity	5% to 95%, non-condensing	5% to 95%, non-condensing
Electrical characteristics		
Description	IEEE 802.3af PoE compliant; IEEE 802.3af PoE for Gigabit Ethernet or external power supply available as accessory.	IEEE 802.3af PoE compliant; IEEE 802.3af PoE injector for Gigabit Ethernet or external power supply available as accessory.
Maximum power rating	12 W	12 W
Antenna Connector	(3) IEEE 802.11n RP-SMA, 1 IEEE 802.11a/b/g RP-SMA	(3) IEEE 802.11n RP-SMA, (1) IEEE 802.11a/b/g RP-SMA
Antenna	Integrated, dual-band, omnidirectional, 3 x IEEE 802.11n fixed 3x3 MIMO, 2 x 802.11a/b/g (diversity)	(2) Integrated, dual-band, omni, (3) IEEE 802.11n fixed 3x3 MIMO, 2 x IEEE 802.11a/b/g (diversity)
Number of internal antennas	6	
Number of external antennas	4	
Frequency band and Operating channels		
FCC	2.412 - 2.462 GHz (1 - 11 (for both the n radio and the a/b/g radio) channels) 5.180 - 5.240 GHz (36 - 48 (for both the n radio and the a/b/g radio) channels) 5.260 - 5.320 GHz (52 - 64 (for the n radio only) channels) 5.500 - 5.700 GHz (100- 140 (excluding 120, 124 and 128 for the n radio only) channels) 5.745 - 5.825 GHz (149 - 165 (for both the n radio and the a/b/g radio) channels)	2.412 - 2.462 GHz (1 - 11 (for both the n radio and the a/b/g radio) channels) 5.180 - 5.240 GHz (36 - 48 (for both the n radio and the a/b/g radio) channels) 5.260 - 5.320 GHz (52 - 64 (for the n radio only) channels) 5.500 - 5.700 GHz (100- 140 (excluding 120, 124 and 128 for the n radio only) channels) 5.745 - 5.825 GHz (149 - 165 (for both the n radio and the a/b/g radio) channels)
EN	2.412 - 2.472 GHz (1 - 13 (for both the n radio and the a/b/g radio) channels) 5.180 - 5.240 GHz (36 - 48 (for both the n radio and the a/b/g radio) channels) 5.260 - 5.320 GHz (52 - 64 (for the n radio only) channels) 5.500 - 5.700 GHz (100 - 140 (excluding 120, 124 and 128 for the n radio only) channels)	2.412 - 2.472 GHz (1 - 13 (for both the n radio and the a/b/g radio) channels) 5.180 - 5.240 GHz (36 - 48 (for both the n radio and the a/b/g radio) channels) 5.260 - 5.320 GHz (52 - 64 (for the n radio only) channels) 5.500 - 5.700 GHz (100 - 140 (excluding 120, 124 and 128 for the n radio only) channels)
RCR	2.412 - 2.472 GHz (1 - 13 (for both the n radio and the a/b/g radio) channels) 5.170 - 5.230 GHz (34 - 46 (for the a/b/g radio only) channels) 5.180 - 5.240 GHz (36 - 48 (for the n radio only) channels) 5.260 - 5.320 GHz (52 - 64 (for the n radio only) channels) 5.500 - 5.700 GHz (100 - 140 (for the n radio only) channels)	2.412 - 2.472 GHz (1 - 13 (for both the n radio and the a/b/g radio) channels) 5.170 - 5.230 GHz (34 - 46 (for the a/b/g radio only) channels) 5.180 - 5.240 GHz (36 - 48 (for the n radio only) channels) 5.260 - 5.320 GHz (52 - 64 (for the n radio only) channels) 5.500 - 5.700 GHz (100 - 140 (for the n radio only) 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)	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 2043; UL 60950-1; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1	UL 2043; UL 60950-1; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1
Emissions	EN 55022 Class B; EN 60601-1-2; EN 301 489-1; EN 301 489-17; ICES-003 Class B; FCC Part 15, Class B	EN 55022 Class B; EN 60601-1-2; EN 301 489-1; EN 301 489-17; ICES-003 Class B; FCC Part 15, Class B
RF Exposure	FCC Bulletin OET-65C; RSS-102	FCC Bulletin OET-65C; RSS-102

Specifications (continued)

	HP E-MSM422 Access Point US (J9358B)	HP E-MSM422 Access Point WW (J9359B)
Features	Dual radio: IEEE 802.11n for high-throughput applications and IEEE 802.11a/b/g for legacy support Integrated antennas for both IEEE 802.11a/b/g (diversity) and 802.11n (3x3 MIMO) Accepts external IEEE 802.11a/b/g (non-diversity) and 802.11n (3) antennas Will operate both radios; full power on IEEE 802.3af PoE for Gigabit Ethernet	Integrated antennas for both IEEE 802.11a/b/g (diversity) and 802.11n (3x3 MIMO) Accepts external IEEE 802.11a/b/g (non-diversity) and 802.11n (3) antennas Will operate both radios; full power on IEEE 802.3af PoE for Gigabit Ethernet
Notes	Maximum transmit power varies by country.	Maximum transmit power varies by country.
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UN667E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UN668E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UN670E) 3-year, 24x7 SW phone support, software updates (UN669E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UR980E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UR981E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR982E) 4-year, 24x7 SW phone support, software updates (UR983E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UR984E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UR985E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR986E) 5-year, 24x7 SW phone support, software updates (UR987E) 3 Yr 6 hr Call-to-Repair Onsite (UW404E) 4 Yr 6 hr Call-to-Repair Onsite (UW405E) 5 Yr 6 hr Call-to-Repair Onsite (UW406E) 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.	3-year, 4-hour onsite, 13x5 coverage for hardware (UN667E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UN668E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UN670E) 3-year, 24x7 SW phone support, software updates (UN669E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UR980E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UR981E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR982E) 4-year, 24x7 SW phone support, software updates (UR983E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UR984E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UR985E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR986E) 5-year, 24x7 SW phone support, software updates (UR987E) 3 Yr 6 hr Call-to-Repair Onsite (UW404E) 4 Yr 6 hr Call-to-Repair Onsite (UW405E) 5 Yr 6 hr Call-to-Repair Onsite (UW406E) 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.

HP E-802.11n Access Point Series

Specifications (continued)

	HP E-MSM422 Access Point US (J9358B)	HP E-MSM422 Access Point WW (J9359B)

Radio characteristics:
IEEE 802.11n 5 GHz @ 20 MHz

Data rate	MCS0/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	MCS0/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	MCS0/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	MCS0/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
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
(applies to all products in series)

Mobility
IEEE 802.11a High Speed Physical Layer in the 5 GHz Band
IEEE 802.11b Higher-Speed Physical Layer Extension in the 2.4 GHz Band
IEEE 802.11d 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

Specifications (continued)

	HP E-MSM422 Access Point US (J9358B)		HP E-MSM422 Access Point WW (J9359B)	

HP E-MSM422 Access Point US (J9358B)

MCS Index	800 nS Guard Interval		400 nS Guard 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

HP E-MSM422 Access Point WW (J9359B)

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

Specifications (continued)

	HP E-MSM422 Access Point JP (J9530B)	HP E-MSM415 RF Security Sensor (J9522A)
Ports	1 RJ-45 auto-sensing 10/100/1000 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T); Media Type: Auto-MDIX; Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only	1 RJ-45 auto-sensing 10/100/1000 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T); Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only
	1 RS-232C DB-9 console port	1 RJ-45 serial console port
AP characteristics		
Radios	Dual (a/b/g + n/a/b/g)	
Radio operation modes	Client access, Local mesh, Packet capture	
AP operation modes	Autonomous and controlled	
Wi-Fi Alliance Certification	a/b/g/n Wi-Fi Certified	
Physical characteristics		
Dimensions	6.7(d) x 8.8(w) x 2.6(h) in. (17.02 x 22.35 x 6.6 cm)	6.16(d) x 5.19(w) x 1.94(h) in. (15.65 x 13.18 x 4.93 cm)
Weight	3.97 lb. (1.8 kg) mounting bracket	0.72 lb. (0.33 kg) mounting bracket
Enclosure	Indoor, plenum rated	Indoor, plenum rated
Mounting	Includes two Mounting Clips	Includes two Mounting Clips
Environment		
Operating temperature	32°F to 122°F (0°C to 50°C)	32°F to 122°F (0°C to 50°C)
Operating relative humidity	5% to 95%, non-condensing	5% to 95%, non-condensing
Non-operating/Storage temperature	-40°F to 176°F (-40°C to 80°C)	-40°F to 158°F (-40°C to 70°C)
Non-operating/Storage relative humidity	5% to 95%, non-condensing	5% to 95%, non-condensing
Electrical characteristics		
Description	IEEE 802.3af PoE compliant; IEEE 802.3af PoE for Gigabit Ethernet or external power supply available as accessory.	IEEE 802.3af PoE compliant for Gigabit Ethernet
Maximum power rating	12 W	8 W
Antenna Connector	(3) IEEE 802.11n RP-SMA, 1 IEEE 802.11a/b/g RP-SMA	
Antenna	Integrated, dual-band, omnidirectional, 3 x IEEE 802.11n fixed 3x3 MIMO, 2 x 802.11a/b/g (diversity)	Dual-band 2.4/5 GHz omnidirectional antennas
Number of internal antennas	6	3
Number of external antennas	4	
Frequency band and Operating channels		
FCC	2.412 - 2.462 GHz (1 - 11 (for both the n radio and the a/b/g radio) channels) 5.180 - 5.240 GHz (36 - 48 (for both the n radio and the a/b/g radio) channels) 5.260 - 5.320 GHz (52 - 64 (for the n radio only) channels) 5.500 - 5.700 GHz (100 - 140 (excluding 120, 124 & 128 for the n radio only) channels) 5.745 - 5.825 GHz (149 - 165 (for both the n radio and the a/b/g radio) channels)	
EN	2.412 - 2.472 GHz (1 - 13 (for both the n radio and the a/b/g radio) channels) 5.180 - 5.240 GHz (36 - 48 (for both the n radio and the a/b/g radio) channels) 5.260 - 5.320 GHz (52 - 64 (for the n radio only) channels) 5.500 - 5.700 GHz (100 - 140 (excluding 120, 124 and 128 for the n radio only) channels)	
RCR	2.412 - 2.472 GHz (1 - 13 (for both the n radio and the a/b/g radio) channels) 5.170 - 5.230 GHz (36 - 48 (for the a/b/g radio only) channels) 5.180 - 5.240 GHz (36 - 48 (for the n radio only) channels) 5.260 - 5.320 GHz (52 - 64 (for the n radio only) channels) 5.500 - 5.700 GHz (100 - 140 (for the n radio only) 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 2043; UL 60950-1; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1	UL 2043; UL 60950-1; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1
Emissions	EN 55022 Class B; EN 60601-1-2; EN 301 489-1; EN 301 489-17; ICES-003 Class B; FCC Part 15, Class B	EN 55022 Class B; EN 60601-1-2; EN 301 489-1; EN 301 489-17; ICES-003 Class B; FCC Part 15, Class B
RF Exposure	FCC Bulletin OET-65C; RSS-102	FCC Bulletin OET-65C; RSS-102

Specifications (continued)

	HP E-MSM422 Access Point JP (J9530B)	HP E-MSM415 RF Security Sensor (J9522A)
Features	Dual radio: IEEE 802.11n for high-throughput applications and IEEE 802.11a/b/g for legacy support Integrated antennas for both IEEE 802.11a/b/g (diversity) and 802.11n (3x3 MIMO) Accepts external IEEE 802.11a/b/g (non-diversity) and 802.11n (3) antennas Will operate both radios; full power on IEEE 802.3af PoE for Gigabit Ethernet	RF Sensor Characteristics:- Radio; Single (IEEE 802.11n/a/b/g), Radio Operation Modes; RF security, Operation Modes; Controlled, Wi-Fi Alliance Certified; IEEE 802.11a/b/g/n Wi-Fi Certified
Notes	Maximum transmit power varies by country.	The HP RF Manager IDS/IPS Controller (J9521A) is required to manage the HP E-MSM415 RF Security Sensor. Maximum transmit power varies by country
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UN667E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UN668E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UN670E) 3-year, 24x7 SW phone support, software updates (UN669E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UR980E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UR981E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR982E) 4-year, 24x7 SW phone support, software updates (UR983E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UR984E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UR985E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR986E) 5-year, 24x7 SW phone support, software updates (UR987E) 3 Yr 6 hr Call-to-Repair Onsite (UW404E) 4 Yr 6 hr Call-to-Repair Onsite (UW405E) 5 Yr 6 hr Call-to-Repair Onsite (UW406E) 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.	3-year, 4-hour onsite, 13x5 coverage for hardware (UN683E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UN684E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UN686E) 3-year, 24x7 SW phone support, software updates (UN685E) 4-year, 4-hour onsite, 13x5 coverage for hardware (US013E) 4-year, 4-hour onsite, 24x7 coverage for hardware (US014E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (US015E) 4-year, 24x7 SW phone support, software updates (US016E) 5-year, 4-hour onsite, 13x5 coverage for hardware (US017E) 5-year, 4-hour onsite, 24x7 coverage for hardware (US018E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (US019E) 5-year, 24x7 SW phone support, software updates (US020E) 3 Yr 6 hr Call-to-Repair Onsite (UW416E) 4 Yr 6 hr Call-to-Repair Onsite (UW417E) 5 Yr 6 hr Call-to-Repair Onsite (UW418E) 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.

HP E-802.11n Access Point Series

Specifications (continued)

	HP E-MSM422 Access Point JP (J9530B)		HP E-MSM415 RF Security Sensor (J9522A)

Radio characteristics:
IEEE 802.11n 5 GHz @ 20 MHz

Data rate	MCS0/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	MCS0/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	MCS0/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	MCS0/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
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
(applies to all products in series)

Mobility
IEEE 802.11a High Speed Physical Layer in the 5 GHz Band
IEEE 802.11b Higher-Speed Physical Layer Extension in the 2.4 GHz Band
IEEE 802.11d 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

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Specifications (continued)

	HP E-MSM422 Access Point JP (J9530B)		HP E-MSM415 RF Security Sensor (J9522A)	

HP E-MSM422 Access Point JP (J9530B)

MCS Index	800 nS Guard Interval		400 nS Guard 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

Power Supply

HP E-MSM335 and E-MSM422 Power Supply (J9406A)

HP 1-Port Power Injector (J9407A)

External Antenna

HP 5 dBi @2.4GHz Indoor/Outdoor Omnidir Antenna (J8441A)

HP 8 dBi @ 2.4GHz Outdoor Omnidirectional Antenna (J8444A)

HP 3 dBi Dual-Band Diversity Antenna (J8997A)

HP 7 dBi Dual-Band Directional Antenna (J8999A)

HP access points and access devices are Wi-Fi Certified, providing our customers with the assurance that these products have met and passed the rigorous interoperability testing preformed by the Wi-Fi Alliance Organization. See the Specifications section of this series for more information.

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