



## HP ProCurve Wireless Access Point 10ag

### Product overview

The HP ProCurve Wireless Access Point 10ag is ideal for small business networks that need to deploy wireless connectivity quickly and easily with minimal investment. The Wireless Access Point 10ag can be configured in just minutes using the intuitive Web-managed interface. The ProCurve Wireless Access Point 10ag also supports IEEE 802.11a, 802.11b, and 802.11g clients simultaneously via its dual IEEE 802.11a and 802.11b/g radios. The Wireless Access Point 10ag can be wall mounted or placed on a flat surface and has the option to be powered by Power over Ethernet (PoE), allowing for increased location flexibility.

### Key features

- Wireless AP with IEEE 802.11a/b/g support
- Powerable by PoE or AC
- Secure connectivity, dual radio, up to eight SSIDs
- Industry-leading warranty

## Features and benefits

### Industry-leading warranty



### Connectivity

- **Simultaneous IEEE 802.11a and 802.11g dual radio operation:** supports up to 64 wireless clients and provides backward compatibility for IEEE 802.11b wireless devices

### Manageability

- **Intuitive Web interface:** enables simple management via an easy-to-use Web browser interface for access point configuration, monitoring, and administration
- **Integration with HP ProCurve Manager:** enables discovery and mapping via ProCurve Manager, available as a free download from the Web

### Mobility

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

### Security

- **Choice of 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
- **Supports up to eight SSIDs (four per radio):** allows multiple authentication and encryption settings to accommodate the widest range of client capabilities
- **IEEE 802.1X:** provides port-based user authentication with support for Extensible Authentication Protocol (EAP) MD-5, TLS, TTLS, and PEAP with choice of AES, TKIP, and static or dynamic WEP encryption for protecting wireless traffic between authenticated clients and the access point

- **RADIUS-based MAC authentication:** a wireless client is authenticated with a RADIUS server based on the MAC address of the client; this is useful for clients that have minimal or no user interface
- **MAC address lockout:** prevents configured particular MAC addresses from connecting to the network
- **Management password:** provides security so that only authorized access to the Web browser interface is allowed

### Ease of use

- **Comprehensive LED display:** provides an at-a-glance view of status, activity, speed, and radio operation

### Flexibility

- **Choice of power supply (standard AC power or IEEE 802.3af PoE):** provides location flexibility for where the access point is deployed. To use the Power over Ethernet (PoE) option, the access point must be connected to a PoE switch or PoE injector.
- **Deployment options:** access point can be mounted on a vertical wall or placed on a flat surface

### Warranty and support

- **ProCurve Lifetime Warranty:** for as long as you own the product, with next-business-day advance replacement (available in most countries).
- **Electronic and telephone support:** limited electronic and telephone support is available from HP. Refer to the HP Web site at [www.procurve.com/support](http://www.procurve.com/support) for details on the support provided and the period during which support is available.
- **Software releases:** refer to the HP Web site at [www.procurve.com/support](http://www.procurve.com/support) for details on the software releases provided and the period during which software releases are available.

◆ For as long as you own the product, with next-business-day advance replacement (available in most countries). The following hardware products and their related series modules have a one-year hardware warranty with extensions available: HP ProCurve Routing Switch 9300m Series, HP ProCurve Switch 8100i Series, HP ProCurve Network Access Controller 800, and HP ProCurve DCM Controller. The following hardware mobility products have a one-year hardware warranty with extensions available: HP ProCurve M111 Client Bridge, HP ProCurve MSM3xx-R Access Points, HP ProCurve MSM7xx Mobility and Access Controllers, HP ProCurve RF Manager IDS/IPS Systems, HP ProCurve MSM Power Supplies, HP ProCurve 1-Port Power Injector, and HP ProCurve CNMS Appliances. Disk drives in the HP ProCurve ONE Services z1 Modules have a five year hardware warranty. Standalone software, upgrades, or licenses may have a different warranty duration. For details, refer to the ProCurve Software License, Warranty, and Support booklet at [www.procurve.com/warranty](http://www.procurve.com/warranty).

# HP ProCurve Wireless Access Point 10ag

## Specifications



HP ProCurve Wireless Access Point 10ag NA (J9140A)



HP ProCurve Wireless Access Point 10ag WW (J9141A)

<b>Ports</b>	1 RJ-45 auto-sensing 10/100 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Duplex: half or full	1 RJ-45 auto-sensing 10/100 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Duplex: half or full
<b>Physical characteristics</b>		
Dimensions	4.06(d) x 7.01(w) x 1.34(h) in. (10.3 x 17.8 x 3.4 cm)	4.06(d) x 7.01(w) x 1.34(h) in. (10.3 x 17.8 x 3.4 cm)
Weight	0.62 lb. (0.28 kg)	0.62 lb. (0.28 kg)
<b>Memory and processor</b>		
Processor	MIPS 4000 @ 220 MHz, 16 MB SDRAM, 2 MB flash ROM	MIPS 4000 @ 220 MHz, 16 MB SDRAM, 2 MB flash ROM
<b>Environment</b>		
Operating temperature	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C); PoE mode
Operating relative humidity	5% to 95% @ 104°F (40°C), non-condensing	5% to 95% @ 104°F (40°C), 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)
Non-operating/Storage relative humidity	5% to 95% @ 158°F (70°C), non-condensing	5% to 95% @ 158°F (70°C), non-condensing
Altitude	up to 10,000 ft. (3 km)	up to 10,000 ft. (3 km)
<b>Electrical characteristics</b>		
Description	Voltage: 48 VDC (PoE); 12 VDC (power adapter); 110/220 V 50/60 Hz	Voltage: 48 VDC (PoE); 12 VDC (power adapter); 110/220 V 50/60 Hz
Maximum heat dissipation	25 / 33 BTU/hr (26.38 / 34.82 kJ/hr)	25 / 33 BTU/hr (26.38 / 34.82 kJ/hr)
Current	0.6 / 0.2 A	0.6 / 0.2 A
Maximum power rating	7 W	7 W
Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.
<b>Frequency band and Operating channels</b>		
FCC (US & Canada)	2.412 - 2.462 GHz (11 channels) 5.150 - 5.250 GHz (4 channels) 5.725 - 5.825 GHz (5 channels)	
Taiwan	2.412 - 2.462 GHz (11 channels) 5.725 - 5.825 GHz (5 channels)	
European Union		2.412 - 2.472 GHz (13 channels) 5.150 - 5.250 GHz (4 channels)
Japan		2.412 - 2.484 GHz (14 channels) 5.150 - 5.350 GHz (8 channels)
China		2.412 - 2.472 GHz (13 channels) 5.725 - 5.825 GHz (5 channels)
Singapore		2.412 - 2.472 GHz (13 channels) 5.150 - 5.350 GHz (8 channels) 5.725 - 5.825 GHz (5 channels)
Korea		2.412 - 2.472 GHz (13 channels) 5.150 - 5.350 GHz (8 channels) 5.470 - 5.725 GHz (7 channels) 5.725 - 5.825 GHz (4 channels)
Australia		2.412 - 2.472 GHz (13 channels) 5.725 - 5.825 GHz (5 channels)
<b>Radio</b>	FCC Part 15.247; FCC Part 15.407 (US); RSS-210 (Canada); EN 300 328; ARIB STD-T66; ARIB STD-T71; ARIB STD-33; RSS-Gen (Canada); EN 301 893 V1.2.3 (Europe)	FCC Part 15.247; FCC Part 15.407 (US); RSS-210 (Canada); EN 300 328; ARIB STD-T66; ARIB STD-T71; ARIB STD-33; RSS-Gen (Canada); EN 301 893 V1.2.3 (Europe)
<b>Safety</b>	UL 60950-1; CAN/CSA 22.2 No. 60950-1	IEC 60950-1; EN 60950-1
<b>Emissions</b>	FCC Part 15.107; EN 60601-1-2; EN 301 489-1; EN 301 489-17; FCC Part 15.109; ICES-003 (Canada)	FCC Part 15.107; EN 60601-1-2; EN 301 489-1; EN 301 489-17; FCC Part 15.109; ICES-003 (Canada)
<b>RF Exposure</b>	FCC Bulletin OET-65C; IEEE C95.1; RSS-102	EN 50385
<b>Management</b>	HP ProCurve Manager; Web browser	HP ProCurve Manager; Web browser
<b>Notes</b>	Antennas: integral 2.4 GHz 1.8 dBi diversity antennas; 5 GHz 1.8 dBi diversity antennas	

# HP ProCurve Wireless Access Point 10ag

## Specifications (continued)

### HP ProCurve Wireless Access Point 10ag NA (J9140A)

<b>Services</b>	<p>3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)          3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)          3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (U6321E)          3-year, 24x7 SW phone support, software updates (UF792E)          4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E)          4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E)          4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E)          4-year, 24x7 SW phone support, software updates (UR951E)          5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E)          5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)          5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E)          5-year, 24x7 SW phone support, software updates (UR955E)</p> <p>Refer to the HP Web site at <a href="http://www.procurve.com/services">www.procurve.com/services</a> 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.</p>
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### HP ProCurve Wireless Access Point 10ag WW (J9141A)

<p>3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)          3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)          3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (U6321E)          3-year, 24x7 SW phone support, software updates (UF792E)          4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E)          4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E)          4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E)          4-year, 24x7 SW phone support, software updates (UR951E)          5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E)          5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E)          5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E)          5-year, 24x7 SW phone support, software updates (UR955E)</p> <p>Refer to the HP Web site at <a href="http://www.procurve.com/services">www.procurve.com/services</a> 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.</p>
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### HP ProCurve Wireless Access Point 10ag NA (J9140A)

#### Radio characteristics: IEEE 802.11g

Data rate	54 Mbps	48 Mbps	36 Mbps	24 Mbps	18 Mbps	12 Mbps	9 Mbps	6 Mbps
Receiver sensitivity	-71 dBm	-73 dBm	-77 dBm	-80 dBm	-85 dBm	-87 dBm	-88 dBm	-89 dBm
Transmit power	19 dBm	20 dBm	20 dBm	20 dBm	20 dBm	20 dBm	20 dBm	20 dBm

#### IEEE 802.11b

Data rate	11 Mbps	5.5 Mbps	2 Mbps	1 Mbps
Receiver sensitivity	-86 dBm	-88 dBm	-90 dBm	-94 dBm
Transmit power	20 dBm	20 dBm	20 dBm	20 dBm

#### IEEE 802.11a

Data rate	54 Mbps	48 Mbps	36 Mbps	24 Mbps	18 Mbps	12 Mbps	9 Mbps	6 Mbps
Receiver sensitivity	-72 dBm	-73 dBm	-79 dBm	-82 dBm	-85 dBm	-87 dBm	-89 dBm	-90 dBm
Transmit power	18 dBm	18 dBm	18 dBm	18 dBm	18 dBm	18 dBm	18 dBm	18 dBm

### HP ProCurve Wireless Access Point 10ag WW (J9141A)

#### Radio characteristics: IEEE 802.11g

Data rate	54 Mbps	48 Mbps	36 Mbps	24 Mbps	18 Mbps	12 Mbps	9 Mbps	6 Mbps
Receiver sensitivity	-71 dBm	-73 dBm	-77 dBm	-80 dBm	-85 dBm	-87 dBm	-88 dBm	-89 dBm
Transmit power	17.5 dBm	17.5 dBm	17.5 dBm	17.5 dBm	17.5 dBm	17.5 dBm	17.5 dBm	17.5 dBm

#### IEEE 802.11b

Data rate	11 Mbps	5.5 Mbps	2 Mbps	1 Mbps
Receiver sensitivity	-86 dBm	-88 dBm	-90 dBm	-94 dBm
Transmit power	17 dBm	17 dBm	17 dBm	17 dBm

#### IEEE 802.11a

Data rate	54 Mbps	48 Mbps	36 Mbps	24 Mbps	18 Mbps	12 Mbps	9 Mbps	6 Mbps
Receiver sensitivity	-72 dBm	-73 dBm	-79 dBm	-82 dBm	-85 dBm	-87 dBm	-89 dBm	-90 dBm
Transmit power	18 dBm	18 dBm	18 dBm	18 dBm	18 dBm	18 dBm	18 dBm	18 dBm

#### Standards and protocols (applies to all products in series)

**General protocols**  
 IEEE 802.3 Type 10BASE-T  
 IEEE 802.3af Power over Ethernet  
 IEEE 802.3u 100BASE-X

#### 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 802.11g Further Higher Data Rate Extension in

the 2.4 GHz Band

#### Security

IEEE 802.1X Port Based Network Access Control  
 WPA (Wi-Fi Protected Access)

# HP ProCurve Wireless Access Point 10ag accessories

HP ProCurve 1-Port Power Injector (J9407A)

HP ProCurve Wireless Access Point 10ag  
NA (J9140A)

HP ProCurve Manager 3.0 (-)

HP ProCurve Wireless Access Point 10ag  
WW (J9141A)

HP ProCurve Manager 3.0 (-)

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