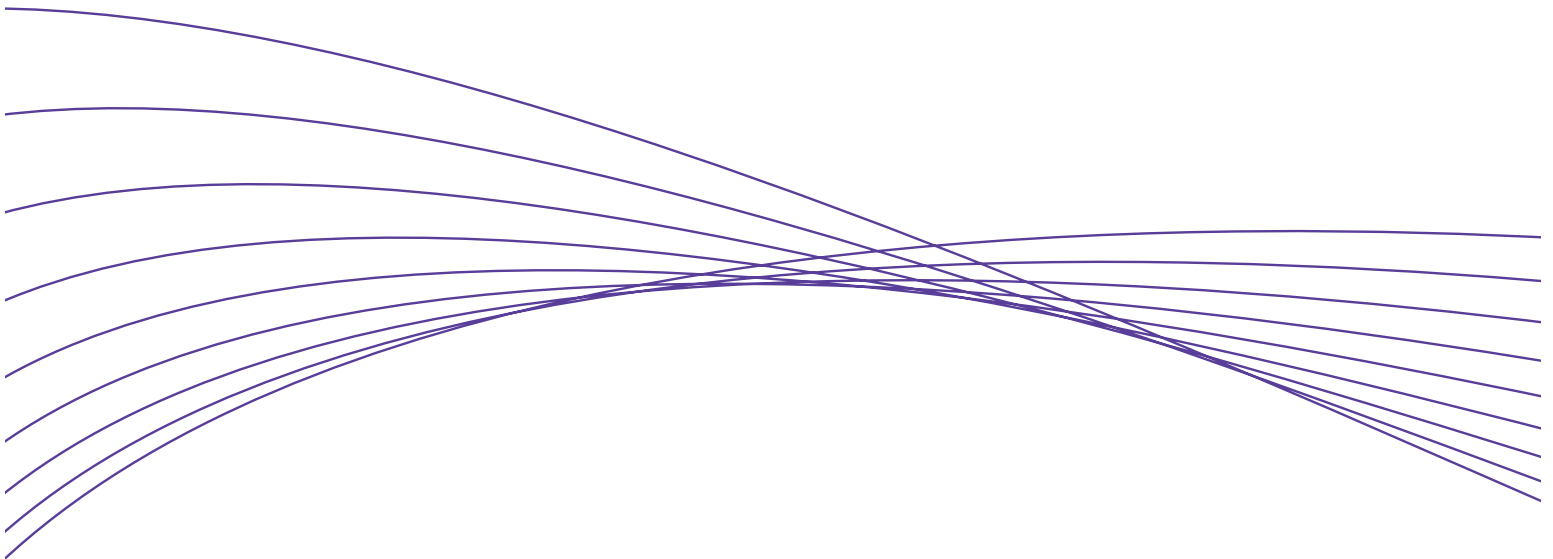


## ProCurve Wireless Access Point 520wl

The ProCurve Wireless Access Point 520wl extends the range of your cabled environment to an entire building or campus by providing easy network access for mobile users or for hard-to-wire locations, such as conference rooms. The ProCurve Access Point 520wl is a high-performance bridge that features roaming, automatic channel selection, and Web-based configuration and management. It cost-effectively responds to the growing demands of enterprise and small-business users for anytime, anywhere access to files, e-mail, and the Internet. The ProCurve 520wl supports up to 250 wireless clients per radio slot and 64- and 128-bit RC4 Wired Equivalent Privacy (WEP) encryption.



ProCurve Wireless Access Point 520wl (J8133A)



# ProCurve Wireless Access Point 520wl

## Features and benefits

- **High-speed (54 Mbps) IEEE 802.11g support:** allows for selecting either IEEE 802.11b, 802.11g, or 802.11g with fallback support for 802.11b; requires ProCurve 802.11g Access Point Card 170wl
- **Investment protection:** the 520wl dual-slot, cardbus architecture provides users with the ability to support simultaneous, tri-mode (802.11 a, b, and g) operation by simply adding the appropriate ProCurve Access Point card
- **Secure mobility:**
  - **802.1X port-based access control:** secure yet flexible user authentication safeguards access to the wireless network; 802.1X support includes MD5, TLS, TTLS, and PEAP
  - **Enhanced encryption management:** per-user/per-session dynamic WEP key assignment and automatic key replacement significantly enhance wireless data privacy\*
  - **16 VLANs and SSID support per radio card:** 802.1Q-compliant VLAN assignment based on SSID association controls user access to network resources\*
  - **Wi-Fi Protected Access™:** combines 802.1X user authentication with enhanced, industry-compatible encryption (TKIP) to secure network access and wireless data traffic\*
  - **Unauthorized access point detection (rogue AP):** the access point employs both active and passive scanning to detect and report all active access points operating within range of the access point. Data from each scan is stored in the access point, available for query or sent to a management console using SNMP traps. Between user-configurable wireless network scans, SNMP traps are immediately generated upon detection of a new access point.\*\*
- **Wireless (bridge) access point repeating:** up to six wireless links are supported in each access point 520wl, with two configurations possible:
  - **Single-radio configuration**—supports wireless traffic to additional wireless bridge relay 520wl access points and local wireless clients within the cell
  - **Dual-radio configuration**—one radio supports wireless traffic to other wireless bridge relay 520wl access points; the second radio supports local wireless clients within the cell
  - **Wireless bridging:** supported on IEEE 802.11a, b, and g ProCurve Access Point radios
- **Auto Channel Select (ACS):** tests available channels and selects one based on signal strength. The available channel range is set by the regulatory agency responsible for your geographic region. The ProCurve Access Point 520wl scans appropriate channels and selects the radio frequency channel with the best signal-to-noise ratio (in other words, signal strength)
- **Local wireless bridge filter:** when enabled, prevents communication between wireless devices associated with the same access point
- **Adjustable output power:** controls cell size for high-density deployments\*
- **External antenna connector:** supports the ProCurve family of 2.4 GHz wireless LAN external antennas and accessories to enhance wireless LAN deployments
- **Dual flash images:** enable auto-recovery upon unsuccessful access point software download
- **Remote configuration and management:** SNMPv3 and SSL protect unauthorized access to the management interface

\* Feature requires use of ProCurve 802.11g Access Point Card 170wl

\*\* Feature requires use of ProCurve 802.11a Access Point Card 170wl or 802.11g Access Point Card 170wl

# ProCurve Wireless Access Point 520wl

- **Quality of service:** support for quality of service protocol on Spectralink-based applications.\*\*\*
- **Software updates:** free downloads are available from the Web
- **Lifetime warranty:** for as long as you own the product, with next-business-day advance replacement (available in most countries)

## Services

- 3-year, 4-hour onsite, 13x5 coverage for hardware (U4683A/E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (U4835A/E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (U6321A/E)

Installation services for ProCurve Wireless Access Point 520wl products are sold directly by ProCurve. Contact your ProCurve Networking sales representative for details.

Check [www.hp.com/go/procurveservices](http://www.hp.com/go/procurveservices) for part numbers and service-level descriptions. For details about services and response times in your area, please contact your local HP sales office.

## Specifications

### Ports

- 1 10/100 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX)
- 1 RS-232C DB-9 console port
- 2 CardBus slots support the following access point cards:
  - ProCurve Wireless 802.11a
  - ProCurve Wireless 802.11b
  - ProCurve Wireless 802.11g

### Physical characteristics

- Dimensions (D x W x H):  
2.0 x 7.8 x 10.2 in.  
(5.08 x 19.81 x 25.91 cm)
- Weight:  
3.86 lb. (1.75 kg)

### Memory and processor

- SDRAM: 16 MB
- Processor:  
Intel® SA100 @ 233 MHz
- Flash ROM: 8 MB

### Mounting

- Includes metal mounting plate for placement on wall, ceiling, or table

### Environment

- Operating
  - Temperature:  
32°F to 104°F (0°C to 40°C)
  - Relative humidity:  
0% to 95%, non-condensing
- Non-operating/Storage
  - Temperature:  
14°F to 122°F (–10°C to 50°C)
  - Relative humidity:  
0% to 95%, non-condensing

### Web interface

- Microsoft® Internet Explorer 5.5 or higher
- Netscape Navigator 6.0 or higher

### Electrical characteristics

- Voltage: 100–240 VAC
- Current: 0.7 A
- Frequency: 47/63 Hz

### Safety

- EN 60950/IEC 60950; UL 2043; UL 60950

### Emissions

- EN 55022 Class B;
- AS/NZS 3548 Class B;
- FCC CFR 47 Part 15 Class B

### Immunity

- EN55024:2001, CISPR 24:2002

### Standards and protocols

- RFC 783 TFTP;
- RFC 951 BootP;
- RFC 1542 BootP;
- RFC 854 Telnet;
- RFC 768 UDP; RFC 792 ICMP;
- RFC 793 TCP; RFC 826 ARP;
- IEEE 802.1D Spanning Tree;
- RFC 2138 RADIUS;
- RFC 2866 RADIUS accounting;

- Secure Sockets Layer (SSL);
- IEEE 802.1X Network Login;
- IEEE 802.1Q VLANs;
- IEEE 802.1Q VLAN tagging;
- SNMPv1/v2c/v3;
- HTML and telnet management;
- RFC 1493 Bridge MIB;
- RFC 1213 MIB II;
- RFC 3164 Syslog;
- IAPP (draft standard)

### Features

- Common to 802.11a, 802.11b, and 802.11g networks:

- HTTP, HTTPS interface for configuration and management
  - Telnet/CLI
  - SNMPv1, SNMPv2c, secure SNMPv3 management
  - TFTP support
  - 2-user VLAN support
  - DHCP client
  - DHCP server
  - 802.1X support for MD5, TLS, PEAP, and TTLS
  - MAC address control table
  - Automatic Channel Select
  - Roaming
  - 64- and 128-bit WEP encryption
  - Multiple RADIUS authentication server support (primary and secondary)
  - 802.1d bridging with static MAC address filtering, network protocol filtering, proxy APR, multicast/broadcast storm threshold filtering, TCP/UDP port filtering
  - Intra-cell traffic filtering, Spanning Tree support, Standard and Orinoco traps
  - Orinoco MIB, Etherlike MIB, 802.11 MIB, Bridge MIB, MIB-II
  - Syslog
  - ICMP echo response
  - Link integrity
  - Wireless (repeater) bridging over IEEE 802.11a, b, and g networks
  - Station monitoring statistics
  - Emergency reset to default configuration, hardware watchdog timer
  - Closed system
  - Plenum rated
- Additionally, applicable to the 802.11g network:
- Wi-Fi Protected Access (WPA) support
  - Per-user/Per-session keying
  - Supports up to 16 SSID/VLANs
  - Separate management VLAN
  - Rogue access point detection
  - Adjustable transmit power control
- Additionally, applicable to the 802.11a network:
- Fragmentation support for 802.11a network
  - Up to 50 stations per radio control
  - 802.1X with per-user/per-session keying
  - Rogue access point detection

\*\*\* Feature requires use of ProCurve 802.11b Access Point Card 150wl

# ProCurve Wireless Access Point 520wl

## Accessories

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**ProCurve 802.11g Access Point Card 170wl 11 CH (J8432A)**

IEEE 802.11g radio card for 520wl Wireless Access Points, 11-channel; for use in North America

**Physical characteristics**

Dimensions (D x W x H):  
4.75 x 2.0 x 0.25 in.  
(12.07 x 5.08 x 0.64 cm)  
Weight: 0.25 lb. (113.4 g)

**Antenna**

Integrated diversity antenna with MC Card connector for external antenna use

**Regulatory compliance**

U.S.: FCC Part 15.247; Canada:  
RSS-210; EU: EN 300 328-1,  
EN 300 328-2;  
Japan: ARIB STD-33, ARIB STD-T66

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**ProCurve 802.11g Access Point Card 170wl 14 CH (J8431A)**

IEEE 802.11g radio card for 520wl Wireless Access Points, 14-channel; for use in Japan only

**Physical characteristics**

Dimensions (D x W x H):  
4.75 x 2.0 x 0.25 in.  
(12.07 x 5.08 x 0.64 cm)  
Weight: 0.25 lb. (113.4 g)

**Antenna**

Integrated diversity antenna with MC Card connector for external antenna use

**Regulatory compliance**

U.S.: FCC Part 15.247; Canada:  
RSS-210; EU: EN 300 328-1,  
EN 300 328-2;  
Japan: ARIB STD-33, ARIB STD-T66

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**ProCurve 802.11g Access Point Card 170wl 13 CH (J8430A)**

IEEE 802.11g radio card for 520wl Wireless Access Points, 13-channel; for use in Europe and Asia, not Japan

**Physical characteristics**

Dimensions (D x W x H):  
4.75 x 2.0 x 0.25 in.  
(12.07 x 5.08 x 0.64 cm)  
Weight: 0.25 lb. (113.4 g)

**Antenna**

Integrated diversity antenna with MC Card connector for external antenna use

**Regulatory compliance**

U.S.: FCC Part 15.247; Canada:  
RSS-210; EU: EN 300 328-1,  
EN 300 328-2; Japan: ARIB STD-  
33, ARIB STD-T66

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**ProCurve Wireless 802.11a Access Point Kit 160wl - Japan (J8150A)**

for use in Japan only

**Physical characteristics**

Dimensions (D x W x H):  
11.0 x 9.5 x 1.0 in.  
(27.94 x 24.13 x 2.54 cm)  
Weight: 0.5 lb. (226.8 g)

**Antenna**

Two integral omnidirectional 5 dBi antennae with diversity 0–180 degrees articulation

**Regulatory compliance**

U.S.: FCC Part 15.407; Canada:  
RSS-210; EU: EN 301 893; Japan:  
ARIB STD-T71

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**ProCurve Wireless 802.11a Access Point Kit 160wl - Europe (J8149A)**

for use in selected European countries only

**Physical characteristics**

Dimensions (D x W x H):  
11.0 x 9.5 x 1.0 in.  
(27.94 x 24.13 x 2.54 cm)  
Weight: 0.5 lb. (226.8 g)

**Antenna**

Two integral omnidirectional 5 dBi antennae with diversity 0–180 degrees articulation

**Regulatory compliance**

U.S.: FCC Part 15.407; Canada:  
RSS-210; EU: EN 301 893; Japan:  
ARIB STD-T71

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**ProCurve Wireless 802.11a Access Point Kit 160wl - Singapore (J8148A)**

for use in Singapore only

**Physical characteristics**

Dimensions (D x W x H):  
11.0 x 9.5 x 1.0 in.  
(27.94 x 24.13 x 2.54 cm)  
Weight: 0.5 lb. (226.8 g)

**Antenna**

Two integral omnidirectional 5 dBi antennae with diversity 0–180 degrees articulation

**Regulatory compliance**

U.S.: FCC Part 15.407; Canada:  
RSS-210; EU: EN 301 893; Japan:  
ARIB STD-T71

# ProCurve Wireless Access Point 520wl

## Accessories

**ProCurve Wireless 802.11a Access Point Kit 160wl—North America (J8138A)**  
for use in North America and Australia



**Physical characteristics**  
Dimensions (D x W x H):  
11.0 x 9.5 x 1.0 in.  
(27.94 x 24.13 x 2.54 cm)  
Weight: 0.5 lb. (226.8 g)

**Antenna**  
Two integral omnidirectional 5 dBi antennae with diversity 0–180 degrees articulation

**Regulatory compliance**  
U.S.: FCC Part 15.407; Canada: RSS-210; EU: EN 301 893; Japan: ARIB STD-T71

**ProCurve Wireless 802.11b Access Point Card 150wl 14 CH (J8137A)**  
with 14-channel support; for use in Japan only

**Physical characteristics**  
Dimensions (D x W x H):  
4.64 x 2.12 x 0.34 in.  
(11.79 x 5.38 x 0.86 cm)  
Weight: 0.10 lb. (45.36 g)

**Regulatory compliance**  
U.S.: FCC Part 15.247; Canada: RSS-210; EU: EN 300 328-1, EN 300 328-2; Japan: ARIB STD-33, ARIB STD-T66

**ProCurve Wireless 802.11b Access Point Card 150wl 13 CH (J8136A)**  
with 13-channel support; for use in Europe and Asia only (except Japan)

**Physical characteristics**  
Dimensions (D x W x H):  
4.64 x 2.12 x 0.34 in.  
(11.79 x 5.38 x 0.86 cm)  
Weight: 0.10 lb. (45.36 g)

**Regulatory compliance**  
U.S.: FCC Part 15.247; Canada: RSS-210; EU: EN 300 328-1, EN 300 328-2; Japan: ARIB STD-33, ARIB STD-T66

**ProCurve Wireless Range Extender Antenna 100wl (J8134A)**  
with 2.5 dBi indoor omnidirectional antenna



**Physical characteristics**  
Dimensions (D x W x H):  
9.1 x 1.0 x 0.3 in.  
(23.11 x 2.54 x 0.76 cm)  
Weight: 0.3 lb. (136.08 g)  
Base diameter: 2.8 in. (7.11 cm)

**Mounting**  
Table stand and wall mounting bracket

**Cable length**  
59 in. (1.5 m)

**Connector**  
Proprietary (FCC compliant)

**Performance**  
Open office: 50% increase over standard range  
Antenna pattern: omnidirectional  
Semi-open office: 15% increase over standard range  
Antenna diversity: yes

**Environment**  
Operating  
Non-operating/Storage

**Gain**  
2.5 dBi

**Frequency**  
2400–2484 MHz

## For more information

To learn more about ProCurve  
Networking, please visit  
[www.procurve.com](http://www.procurve.com)

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