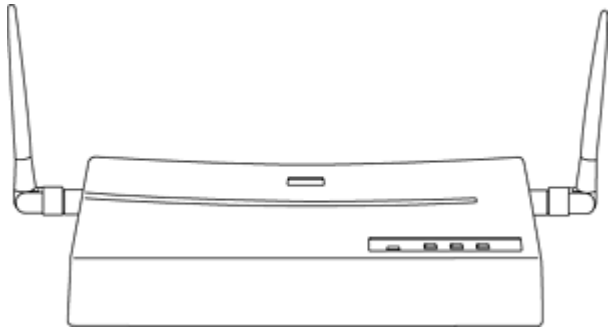
Overview



Models

ProCurve Wireless Access Point 420 NA, North America only	J8130B
ProCurve Wireless Access Point 420 WW, all other countries	J8131B

Introduction

The ProCurve Wireless Access Point 420 is a full-featured IEEE 802.11g, single-radio access point ideally suited for medium to large wireless LAN deployments. Offering the latest standards-based security--including support for IEEE 802.11i, WPA2, and WPA--combined with multiple SSID, access point (rogue AP), and wireless ad-hoc network detection, the ProCurve Access Point 420 delivers choice and flexibility to address wireless access to network services without compromising network security.

Features and Benefits

Mobility

- IEEE 802.11g single-radio design: provides choice for support of IEEE 802.11g and legacy IEEE 802.11b wireless clients with selection of three radio modes of operation: IEEE 802.11b, 802.11g, or 802.11g with fallback support for 802.11b
- Detachable antenna design: enables use of external antenna configurations for improved radio coverage and performance
- Adjustable output power: controls cell size for high-density access point deployments
- Interoperability: Wi-Fi Alliance certifications including IEEE 802.11g Wi-Fi and WPA2 to help ensure multivendor interoperability

Management

- Remote configuration and management: through secure Web browser or command-line interface (CLI)
- Management interface control: each of the following interfaces can be enabled or disabled depending on security preferences: console port, telnet port, reset button
- Manager, operator privilege levels: enables read-only (operator) and read-write (manager) access on CLI and Web browser management interfaces
- Management VLAN: segments traffic to and from management interfaces, including CLI/telnet, Web browser interface, and SNMP
- RADIUS accounting support: separate RADIUS accounting server support per SSID; provides detailed session, usage, and billing information for each client activity
- International country configuration: select the appropriate country, and the access point automatically configures operation to match regulatory requirements (model J8131B only)
- Local wireless bridge client traffic filtering: when enabled, prevents communication between wireless devices associated with the same access point

Overview

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
- 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
- 8 SSIDs with separate VLAN, security, and authentication per SSID: permits network administrators to control user access to network resources based on user authentication and level of trusted security between the wireless user and the access point. For example, the SSID labled "GUEST" requires no authentication or security for users of this SSID. All traffic on the "GUEST" SSID is placed on a VLAN with restricted access to specific services such as Internet access. A second SSID is configured for employee access. The "EMPLOYEE" SSID requires successful authentication to the network using IEEE 802.11i with AES encryption to protect wireless data. The VLAN associated with the "EMPLOYEE" SSID grants access to a broader range of services and network access.
- 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
- Secure access to management interfaces: all management interfaces of the ProCurve Access Point 420--CLI, browser interface, or MIB--are securely encrypted through SSHv2, SSL, and SNMPv3
- Closed system: restricts broadcast of SSID as a security measure to conceal presence of the wireless network; access point does not respond to the wireless client probe request of "ANY"
- Access Point (rogue AP) and ad-hoc wireless network detection: each ProCurve Access Point 420 can be configured to periodically scan for neighboring access points and ad-hoc wireless networks. Information collected during the scan--including the BSSID, SSID, channel, RSSI, security setting, and radio type (IEEE 802.11b, g, or b/g mode)--are captured for each access point detected. If configured, the access point can enter dedicated scan mode to provide continuous scanning of the surrounding RF environment.

Convergence

- 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
- IEEE 802.3af Power over Ethernet 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

Industry-leading warranty

- Lifetime warranty: for as long as you own the product, with next-business-day advance replacement (available in most countries)

Services

ProCurve Wireless Access Point 420 WW	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
ProCurve Wireless Access Point 420 NA	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

ProCurve Wireless Access Point 420 WW (J8131B)	Ports		1 auto-sensing 10/100 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Media Type: ProCurve Auto-MDIX; Duplex: half or full 1 RS-232C DB-9 console port
	Physical characteristics	Dimensions	8.59(d) x 5.41(w) x 1.29(h) in. (21.82 x 13.74 x 3.28 cm)
		Weight	2.27 lb. (1.02 kg) mounting bracket
	Memory and processor		4 MB flash
	Mounting		Includes wall-mounting bracket and related hardware
	Environment	Operating temperature	32°F to 104°F (0°C to 40°C)
		Operating relative humidity	15% to 95%, non-condensing
		Non-operating/ Storage temperature	-40°F to 158°F (-40°C to 70°C)
		Non-operating/ Storage relative humidity	0% to 95%, non-condensing
	Wireless interface		Microsoft Internet Explorer 5.5 or higher; Netscape Navigator 6.0 or higher
	Electrical characteristics	Description	Voltage: 48 VDC (PoE)
		Maximum heat dissipation	102 BTU/hr (108 kJ/hr)
		Current	0.4 A
		Power consumption	13.2 W
	Radio		FCC Part 15.247; IC RSS 210; EN 300-328-1; EN 300-328-2; ARIB STD-T66; ARIB STD-33
	Safety		EN 60950/IEC 60950; UL 2043; UL 60950
	Emissions		EN 55022 Class B; AS/NZS 3548 Class B; FCC Part 15.107; ICES-003 Class B; FCC Part 15.109 Class B
	Immunity	EN	EN 55024, CISPR 24
	Features		Hardware • Hardware reset button • External antenna connectors (RP-SMA) • Antenna diversity support • Plenum rating (UL 2043 rating) • Kensington security slot • RS-232 DB-9 serial console port • Status LEDs • Wall mount hardware • Local DC power input or 802.3af Power over Ethernet • 10/100 Ethernet port (IEEE 802.3 Type 10Base-T, 802.3u Type 100Base-TX)
	Standards and protocols	Device Management	RFC 2068 Hypertext Transfer Protocol -- HTTP/1.1 HTML and telnet management
		General Protocols	IEEE 802.1Q VLANs

		IEEE 802.3af Power over Ethernet RFC 768 UDP RFC 783 TFTP Protocol (revision 2) RFC 791 IP RFC 792 ICMP RFC 793 TCP RFC 826 ARP RFC 854 TELNET RFC 894 IP over Ethernet RFC 1541 DHCP RFC 2030 Simple Network Time Protocol (SNTP) v4
	MIBs	RFC 1213 MIB II RFC 1493 Bridge MIB RFC 2011 SNMPv2 MIB for IP RFC 2012 SNMPv2 MIB for TCP RFC 2013 SNMPv2 MIB for UDP
	Mobility	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 IEEE 802.11i Medium Access Control (MAC) Security Enhancements
	Network Management	RFC 3164 BSD syslog Protocol SNMPv1/v2c/v3
	Security	IEEE 802.1X Port Based Network Access Control RFC 2138 RADIUS Authentication RFC 2866 RADIUS Accounting Secure Sockets Layer (SSL) SSHv2 Secure Shell

ProCurve Wireless Access Point 420 NA (J8130B)	Ports		1 auto-sensing 10/100 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Media Type: ProCurve Auto-MDIX; Duplex: half or full 1 RS-232C DB-9 console port
	Physical characteristics	Dimensions	8.59(d) x 5.41(w) x 1.29(h) in. (21.82 x 13.74 x 3.28 cm)
		Weight	2.27 lb. (1.02 kg) mounting bracket
	Memory and processor		4 MB flash
	Mounting		Includes wall-mounting bracket and related hardware
	Environment	Operating temperature	32°F to 104°F (0°C to 40°C)
		Operating relative humidity	15% to 95%, non-condensing
		Non-operating/ Storage temperature	-40°F to 158°F (-40°C to 70°C)

	Non-operating/ Storage relative humidity	0% to 95%, non-condensing
Wireless interface	Microsoft Internet Explorer 5.5 or higher; Netscape Navigator 6.0 or higher	
Electrical characteristics	Description	Voltage: 48 VDC (PoE)
	Maximum heat dissipation	102 BTU/hr (108 kJ/hr)
	Current	0.4 A
	Power consumption	13.2 W
Radio	FCC Part 15.247; IC RSS 210; EN 300-328-1; EN 300-328-2; ARIB STD-T66; ARIB STD-33	
Safety	EN 60950/IEC 60950; UL 2043; UL 60950	
Emissions	EN 55022 Class B; AS/NZS 3548 Class B; FCC Part 15.107; ICES-003 Class B; FCC Part 15.109 Class B	
Immunity	EN	EN 55024, CISPR 24
Features	Hardware	

- Hardware reset button
- External antenna connectors (RP-SMA)
- Antenna diversity support
- Plenum rating (UL 2043 rating)
- Kensington security slot
- RS-232 DB-9 serial console port
- Status LEDs
- Wall mount hardware
- Local DC power input or 802.3af Power over Ethernet
- 10/100 Ethernet port (IEEE 802.3 Type 10Base-T, 802.3u Type 100Base-TX)

Standards and protocols	Device Management	RFC 2068 Hypertext Transfer Protocol -- HTTP/1.1 HTML and telnet management
	General Protocols	IEEE 802.1Q VLANs IEEE 802.3af Power over Ethernet RFC 768 UDP RFC 783 TFTP Protocol (revision 2) RFC 791 IP RFC 792 ICMP RFC 793 TCP RFC 826 ARP RFC 854 TELNET RFC 894 IP over Ethernet RFC 1541 DHCP RFC 2030 Simple Network Time Protocol (SNTP) v4
	MIBs	RFC 1213 MIB II RFC 1493 Bridge MIB RFC 2011 SNMPv2 MIB for IP RFC 2012 SNMPv2 MIB for TCP RFC 2013 SNMPv2 MIB for UDP

Mobility	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 IEEE 802.11i Medium Access Control (MAC) Security Enhancements
Network Management	RFC 3164 BSD syslog Protocol SNMPv1/v2c/v3
Security	IEEE 802.1X Port Based Network Access Control RFC 2138 RADIUS Authentication RFC 2866 RADIUS Accounting Secure Sockets Layer (SSL) SSHv2 Secure Shell

ProCurve Wireless Access Point 420 WW (J8131B) Radio characteristics

IEEE 802.11g
Modulation: Orthogonal Frequency Division Modulation (64 QAM, 16 QAM, QPSK, BPSK)
Media access protocol: CSMA/CA (Collision Avoidance) with ACK
Nominal output power: 15 dBm

Data rate	54 Mbps	48 Mbps	36 Mbps	24 Mbps
Receiver sensitivity	–70 dBm	–73 dBm	–75 dBm	–80 dBm

Data rate	18 Mbps	12 Mbps	9 Mbps	6 Mbps
Receiver sensitivity	–82 dBm	–85 dBm	–85 dBm	–87 dBm

ProCurve Wireless Access Point 420 NA (J8130B) Radio characteristics

IEEE 802.11g
Modulation: Orthogonal Frequency Division Modulation (64 QAM, 16 QAM, QPSK, BPSK)
Media access protocol: CSMA/CA (Collision Avoidance) with ACK
Nominal output power: 15 dBm

Data rate	54 Mbps	48 Mbps	36 Mbps	24 Mbps
Receiver sensitivity	–70 dBm	–73 dBm	–75 dBm	–80 dBm

Data rate	18 Mbps	12 Mbps	9 Mbps	6 Mbps
Receiver sensitivity	–82 dBm	–85 dBm	–85 dBm	–87 dBm

Accessories

ProCurve 5 dBi Indoor/Outdoor Omnidirectional Antenna (J8441A) 5 dBi indoor/outdoor high-gain omnidirectional antenna with ceiling T-bar, I-beam, and mast mount	**Electrical characteristics**	Frequency range 1: 2400 - 2500 Gain 1 dBi (with antenna cable): 4.4 VSWR max: 1.7:1 E-Plane (3 dB beamwidth): 31 degrees H-Plane (3 dB beamwidth): Omnidirectional Polarization: Linear (vertical) Impedance (Ohms): 50 RF connector: Reverse SMA (male) Cable length: 2.75 ft. (0.84 m)
	Physical characteristics	Dimensions: 11.5(h) in. (29.21 cm) Wind surface area: 0.08 sq. ft. (0.01 sq. m) Wind survival: 125.1 mph (201.13 km/hr) Weight: 0.30 lb. (0.14 kg) Mounting style: Ceiling T-bar, I-beam, or mast Enclosure: Polycarbonate
	Environment	Operating temperature: -22°F to 131°F (-30°C to 55°C) Non-operating/Storage temperature: -40°F to 149°F (-40°C to 65°C)
ProCurve 8 dBi Outdoor Omnidirectional Antenna (J8444A) 8 dBi outdoor omnidirectional antenna	**Electrical characteristics**	Frequency range 1: 2400 - 2500 Gain 1 dBi (with antenna cable): 7.4 VSWR max: 1.5:1 E-Plane (3 dB beamwidth): 12 degrees H-Plane (3 dB beamwidth):Omnidirectional Polarization: Linear (vertical) Impedance (Ohms): 50 RF connector: Reverse SMA (male) Cable length: 2.75 ft. (0.84 m)
	Physical characteristics	Dimensions: 25.25(h) in. (64.14 cm) Wind surface area: 0.11 sq. ft. (0.01 sq. m) Wind survival: 125 mph (201.13 km/hr) Weight: 0.5 lb. (0.23 kg) Mounting style: Mast Enclosure: Polycarbonate
	Environment	Operating temperature: -22°F to 131°F (-30°C to 55°C) Non-operating/Storage temperature: -40°F to 149°F (-40°C to 65°C)

To learn more, visit www.procurve.com
Information is subject to change without notice