ProCurve Networking
Quick Reference Guide

September 2007

ProCurve
Networking by HP

hp
invent

ProCurve Adaptive Networks: adapt to survive – and thrive

In this global information society, your information technology is key to your competitive success. Your network must be a strategic asset— a critical aspect of your information technology that helps you compete and thrive.

At ProCurve, our vision is for adaptive networks that enable your organization to evolve quickly and successfully, so you can thrive within the relentless pace of change. ProCurve Adaptive Networks are adaptive to users, applications, and your organization's needs. We offer standards-based, cost-effective products that fortify security, increase productivity, and reduce complexity in the enterprise.

Discover how ProCurve's Adaptive Network vision can help your organization adapt to thrive by visiting **www.procurve.eu**

ProCurve Core Switches

Traditional Core Switches

ProCurve Routing Switch 9300m Series

· High performance with up to 345 million PPS throughput, jumbo frames on Gigabit and 10-Gigabit ports

· Hardware- and software-based high-availability features for increased uptime

· Multi-protocol routing capability (IP, IPX, AppleTalk)

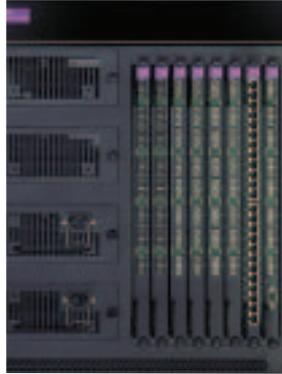### 10/100/1000/10-GbE routing switches

ProCurve Routing Switch 9315m (J4874A)
15 open module slots
Supports a maximum of 28 10-GbE, 232 Gigabit, or 672 10/100 ports

ProCurve Routing Switch 9308m (J4138A)
8 open module slots
Supports a maximum of 14 10-GbE, 120 Gigabit, or 336 10/100 ports

ProCurve Routing Switch 9304m (J4139A)
4 open module slots
Supports a maximum of 6 10-GbE, 56 Gigabit, or 144 10/100 ports

ProCurve Routing Switch 9300m Series Modules

ProCurve 9300 EP 8-Port Mini-GBIC Redundant Management Module (J4885A)

ProCurve 9300 EP 16-Port Mini-GBIC Module (J4894A)

ProCurve 9300 EP 16-Port 100/1000-T Module (J4895A)

ProCurve 9300 EP 48-Port 10/100-TX RJ-45 Module (J4881B)

ProCurve 9300 EP 48-Port 10/100-TX Telco (RJ-21) Module (J4889B)

ProCurve 9300 EP 24-Port 100Base-FX Module (J8178A)

ProCurve 9300 2-Port 10-GbE Module (J8174A)

ProCurve 9315m Redundant Power Supply (J4875A), not pictured

**ProCurve 9304m/9308m Redundant Power Supply (J4147A),** not pictured

ProCurve Core Switches (continued)

Interconnect Fabric Switches

NEW ProCurve Switch 8212zl

- High-performance, highly available, chassis switch platform that enables unified core-to-edge adaptive network solutions
- Delivers to market the industry's first core switch with a lifetime warranty
- Platform and software high-availability features ensure system continuity and enhance network productivity
- Ideal for customers seeking to cost-effectively meet stringent availability requirements without sacrificing performance or flexibility

NEW **ProCurve Switch 8212zl (J8715A)***
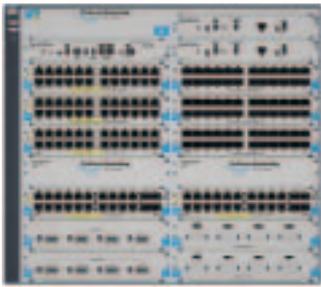
12 open module slots
Supports a maximum of 288 auto-sensing 10/100/1000 ports or 48 10-GbE ports or 288 mini-GBICs, or a combination

ProCurve Switch 8212zl Modules

NEW **ProCurve Switch 8200zl Management Module (J9092A)**

NEW **ProCurve Switch 8200zl Fabric Module (J9093A)****

NEW **ProCurve Switch 8200zl System Support Module (J9095A)****

ProCurve Switch zl 24-Port 10/100/1000 PoE Module (J8702A)

ProCurve Switch zl 20-Port 10/100/1000 + 4-Port Mini-GBIC Module (J8705A)

ProCurve Switch zl 24-Port Mini-GBIC Module (J8706A)

ProCurve Switch zl 4-Port 10-GbE X2 Module (J8707A)

ProCurve Switch zl 4-Port 10-GbE CX4 Module (J8708A)

ProCurve Switch zl 875W Power Supply (J8712A)

ProCurve Switch zl 1500W Supply (J8713A)

ProCurve Switch zl Power Supply Shelf (J8714A)

NEW **ProCurve Wireless Edge Services zl Module (J9051A)**

NEW **ProCurve Redundant Wireless Services zl Module (J9052A)**

 * Shown with optional modules
** Ordered for spare parts only
   (J8715A provides required modules)

ProCurve Core Switches (continued)

Interconnect Fabric Switches (continued)

ProCurve Switch 8100fl Series

- Non-blocking wire-speed Gigabit connectivity
- Full platform redundancy for enhanced high availability
- High network route scalability and traffic buffering for future network growth
- Enhanced system management and diagnostic tools

ProCurve Switch 8116fl (J8728A)

16 open module slots

Supports a maximum of 16 10-GbE ports, 160 100/1000 ports, or 160 mini-GBICs, or a combination
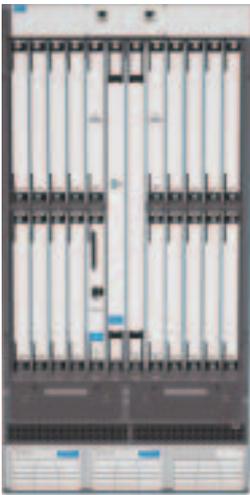
ProCurve Switch 8108fl (J8727A)

8 open module slots

Supports a maximum of 8 10-GbE ports, 80 100/1000 ports, or 80 mini-GBICs, or a combination

ProCurve Switch 8100fl Series Modules

ProCurve 8108fl Redundant Switch Fabric Module (J8729A)

ProCurve 8116fl Redundant Switch Fabric Module (J8730A)

ProCurve Switch fl Redundant Management Module (J8731A)

ProCurve Switch fl 10-Port 100/1000-T Interface Module (J8734A)

ProCurve Switch fl 10-Port Mini-GBIC Interface Module (J8735A)

ProCurve Switch fl 2-Port 10-GbE X2 Interface Module (J8737A)

ProCurve Switch fl Redundant Power Supply (J8732A)

ProCurve Core Switches (continued)

Aggregators

ProCurve Switch 6400cl Series

- Low-cost, full Layer 3, 10-GbE stackable switch
- Ideal for building cost-efficient small to medium networks or aggregate high-performance, high-throughput application servers and workstations

ProCurve Switch 6400cl (J8433A)
6 CX4 10-GbE ports
Supports a maximum of 8 10-GbE ports with optional
2-port rear module

ProCurve Switch 6410cl (J8474A)
6 X2 transceiver 10-GbE ports
Supports a maximum of 8 10-GbE ports with optional
2-port rear module

ProCurve Switch 6200yl-24G-mGBIC

- ProVision ASIC provides intelligence, scalability, flexibility, and investment protection
- Simplicity of deployment, operation, and maintenance
- Ideal for environments driven by performance, security, mobility, and convergence capability

ProCurve Switch 6200yl-24G-mGBIC (J8992A)
24 mini-GBIC slots (for use with mini-GBIC transceivers)
Supports a maximum of 4 10-GbE ports with optional module

ProCurve Switch 6108

- Low-cost Gigabit switch
- Layer 3 basic IP routing
- Ideal for access tier aggregation with 2 optional Gigabit fiber uplinks

ProCurve Switch 6108 (J4902A)
6 10/100/1000 ports
2 dual-personality ports—each port can be used as either 2
additional RJ-45 10/100/1000 ports, 2 open mini-GBIC slots (for use
with mini-GBIC transceivers), or one of each

ProCurve Switch 5400zl Series* with Premium License

- Premium License (J8994A) provides advanced aggregation and distribution features for all 5400zl products
- ProVision ASIC provides intelligence, scalability, flexibility, and investment protection
- Simplicity of deployment, operation, and maintenance
- Ideal for mid-sized distributed interconnect configurations in the center of the network or for the distribution layer in large networks
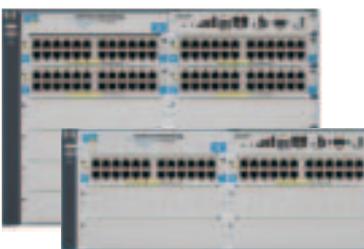
*See page 8 for 5400zl chassis, module, and power supply details

ProCurve Edge Devices—WAN

Simple, secure WAN enabling edge-to-edge connectivity.

ProCurve Secure Router 7000dl Series

- High-performance routing with integrated security and convergence capabilities
- Simplicity of deployment, management, and support
- Low cost of ownership supported by an industry-leading lifetime warranty
- Ideal for WAN environments requiring secure branch-office connectivity

ProCurve Secure Router 7102dl (J8752A)
2 10/100 ports
2 dl module slots
1 compact flash port
VPN encryption module slot

ProCurve Secure Router 7203dl (J8753A)
2 10/100 ports
2 dl module slots
1 dl wide module slot
1 compact flash port
RPS option
VPN encryption module slot

ProCurve Secure Router 7000dl Series Modules

dl modules

ProCurve Secure Router dl 1xE1 Module (J8454A)

ProCurve Secure Router dl 1xE1+G.703 Module (J8455A)

ProCurve Secure Router dl 2xE1 Module (J8456A)

ProCurve Secure Router dl 1-Port ADSL2+ Annex B Module (J8759A)
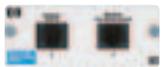
ProCurve Secure Router dl 1-Port ADSL2+ Annex A Module (J8459A)
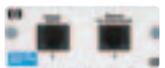
ProCurve Secure Router dl 1-Port Serial Module (J8458A)

ProCurve Secure Router dl 2-Port ISDN BRI S/T Module (J8457A)

dl wide modules

ProCurve Secure Router dl Wide 8xT1/E1 Module (J8463A)

ProCurve Secure Router dl Wide 8xSerial Module (J9011A)

dl backup modules

ProCurve Secure Router dl Analog Modem Backup Module (J8462A), not pictured

ProCurve Secure Router dl 1-Port ISDN BRI S/T Backup Module (J8461A), not pictured

Cables

ProCurve Secure Router Serial Cable V.35 DTE (J8757A), not pictured

ProCurve Secure Router Serial Cable X.21 DTE (J8755A), not pictured

VPN encryption modules

ProCurve Secure Router 7100/7200 IPSec VPN Module (J8471A), includes a 10-user VPN client license

ProCurve Secure Router 7100/7200 IPSec VPN Base Module (J9026A), includes a 10-user VPN client license

VPN client licenses

ProCurve VPN Client Software 100-user license (J8758A) Unlimited user license (J8750A)
An IPSec software package that allows users to securely connect to ProCurve wireless access controllers and WAN routers
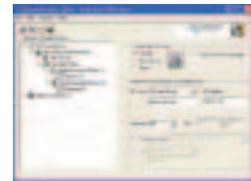
ProCurve Edge Devices—LAN

Multi-layer, high-port-density switches providing scalable, reliable network infrastructures.

Intelligent Edge Switches

ProCurve Switch 5400zl Series

· Advanced intelligent edge switches

· ProVision ASIC provides intelligence, scalability, flexibility, and investment protection

· Simplicity of deployment, operation, and maintenance

· Ideal for environments driven by performance, security, mobility, and convergence capability

10/100/1000 PoE switches

ProCurve Switch 5412zl-96G Intelligent Edge (J8700A)

8 open module slots
96 10/100/1000 ports
Supports a maximum
of 32 10-GbE ports, 288
10/100/1000 ports, or 192
mini-GBICs, or a combination

ProCurve Switch 5406zl-48G Intelligent Edge (J8699A)

4 open module slots
48 10/100/1000 ports
Supports a maximum
of 16 10-GbE ports, 144
10/100/1000 ports, or 96 mini-
GBICs, or a combination

Chassis

ProCurve Switch 5412zl Intelligent Edge (J8698A)

12 open module slots
Supports a maximum
of 48 10-GbE ports, 288
10/100/1000 ports, or 288
mini-GBICs, or a combination
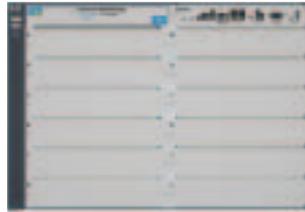
ProCurve Switch 5406zl Intelligent Edge (J8697A)

6 open module slots
Supports a maximum
of 24 10-GbE ports, 144
10/100/1000 ports, or 144
mini-GBICs, or a combination
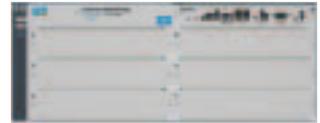
ProCurve Switch 5400zl Series Modules

ProCurve Switch zl 24-Port 10/100/1000 PoE Module (J8702A)

ProCurve Switch zl 20-Port 10/100/1000 + 4-Port Mini-GBIC Module (J8705A)

ProCurve Switch zl 24-Port Mini-GBIC Module (J8706A)

ProCurve Switch zl 4-Port 10-GbE X2 Module (J8707A)

ProCurve Switch zl 4-Port 10-GbE CX4 Module (J8708A)

ProCurve Switch zl 875W Power Supply (J8712A)

ProCurve Switch zl 1500W Power Supply (J8713A)

ProCurve Switch zl Power Supply Shelf (J8714A)
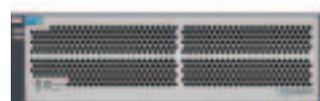
NEW **ProCurve Wireless Edge Services zl Module (J9051A)**

NEW **ProCurve Redundant Wireless Services zl Module (J9052A)**

ProCurve Switch 3500yl Series

The same benefits as the 5400zl, but in a stackable form factor.

10/100/1000 PoE switches

ProCurve Switch 3500yl-48G-PWR (J8693A)
1 open module slot
44 10/100/1000 ports
4 dual-personality ports—each port can be used as either
an RJ-45 10/100/1000 port or an open mini-GBIC slot
(for use with mini-GBIC transceivers)
Supports a maximum of 4 10-GbE ports, with optional module

ProCurve Switch 3500yl-24G-PWR (J8692A)
1 open module slot
20 10/100/1000 ports
4 dual-personality ports—each port can be used as either
an RJ-45 10/100/1000 port or an open mini-GBIC slot
(for use with mini-GBIC transceivers)
Supports a maximum of 4 10-GbE ports, with optional module

ProCurve Switch 5400zl and 3500yl Series Licenses

Premium License for Switch 5400zl Series (J8994A)
Premium License for Switch 3500yl Series (J8993A)

ProCurve Switch 5300xl Series

The 5300xl series offers Layer 3, 10/100 connectivity and provides security, enhanced resiliency, bandwidth scalability, and convergence capabilities.

· Scalable Layer 2, 3, and 4 switching in compact 4- or 8-slot modular form factors
· Provides flexibility, high port density, no-cost software updates, and a lifetime warranty
· Integrated wireless services with unified wired and wireless policy-based network access control, centralized RF management (requires J9001A module)
· Ideal for campus environments that need to define security policies and provide enforcement based upon user types

10/100/1000 switches

ProCurve Switch 5308xl-48G (J8167A)
5 open module slots
48 10/100/1000 ports and 6 mini-GBIC slots
Supports a maximum of 192 10/100 or
112 10/100/1000 ports and 6 mini-GBICs

ProCurve Switch 5304xl-32G (J8166A)
2 open module slots
32 10/100/1000 ports and 4 mini-GBIC slots
Supports a maximum of 96 10/100 or
56 10/100/1000 ports and 4 mini-GBICs

10/100 switches

ProCurve Switch 5372xl (J4848B)
5 open module slots
72 10/100 ports
Supports a maximum of 192 10/100 or
128 10/100/1000 ports

ProCurve Switch 5348xl (J4849B)
2 open module slots
48 10/100 ports
Supports a maximum of 96 10/100 or
64 10/100/1000 ports

Chassis

ProCurve Switch 5308xl (J4819A)
8 open module slots
Supports a maximum of 192 10/100 or
128 10/100/1000 ports

ProCurve Switch 5304xl (J4850A)
4 open module slots
Supports a maximum of 96 10/100 or
64 10/100/1000 ports

ProCurve Edge Devices—LAN (continued)

Intelligent Edge Switches (continued)

ProCurve Switch 5300xl Series Modules

ProCurve Switch xl 24-Port 10/100-TX Module (J4820B)

ProCurve Switch xl 4-Port 100/1000-T Module (J4821B)

ProCurve Switch xl 4-Port Mini-GBIC Module (J4878B)

ProCurve Switch xl 12-Port 100-FX MTRJ Module (J4852A)

ProCurve Switch xl 24-Port 10/100-TX PoE Module (J8161A)*

ProCurve Switch xl 16-Port 10/100/1000 Module (J4907A)

ProCurve Wireless Edge Services xl Module (J9001A)

ProCurve Redundant Wireless Services xl Module (J9003A)

ProCurve Switch xl Access Controller Module (J8162A)**

ProCurve Switch gl/xl/vl Redundant Power Supply (J4839A), not pictured

ProCurve Switch 3400cl Series

- 24- and 48-port 10/100/1000 stackables delivering intelligent, high performance at network edge
- 10-Gigabit for uplink or stacking capabilities
- Ideal for cost-effective Gigabit infrastructure and environments needing security, mobility, and convergence capabilities

10/100/1000 switches

ProCurve Switch 3400cl-48G (J4906A)

1 open module slot

44 10/100/1000 ports

4 dual-personality ports—each port can be used as either an RJ-45 10/100/1000 port or an open mini-GBIC slot (for use with mini-GBIC transceivers)

Supports a maximum of 2 10-GbE and 48 10/100/1000 ports

ProCurve Switch 3400cl-24G (J4905A)

1 open module slot

20 10/100/1000 ports

4 dual-personality ports—each port can be used as either an RJ-45 10/100/1000 port or an open mini-GBIC slot (for use with mini-GBIC transceivers)

Supports a maximum of 2 10-GbE and 24 10/100/1000 ports

 * Requires use of J8168A or J8169A External Power Supply
** Requires use of a ProCurve Access Control Server 745wl (J9038A) on the network

ProCurve Edge Devices—LAN (continued)

Edge Switches—Managed

ProCurve Switch 4200vl Series

- Layer 2, 10/100 and 10/100/1000 switch chassis with IP static routes
- Cost-effective and flexible alternative to stackable switches
- Ideal for price-sensitive IT customers who value a long-term stable infrastructure

10/100/1000 switches

ProCurve Switch 4208vl-72GS (J9030A)
5 open module slots
68 10/100/1000 ports and 4 SFP ports
Supports a maximum of 120 10/100 ports
or 188 10/100/1000 ports
or 24 mini-GBICs, or a combination

ProCurve Switch 4204vl-48GS (J9064A)
2 open module slots
44 10/100/1000 ports and 4 SFP ports
Supports a maximum of 48 10/100 ports or
92 10/100/1000 ports or 12 mini-GBICs, or
a combination

10/100 switches

ProCurve Switch 4208vl-96 (J8775A)
4 open module slots
96 10/100 ports
Supports a maximum of 192 10/100 ports
or 96 10/100/1000 ports or 16 mini-GBICs,
or a combination

ProCurve Switch 4202vl-72 (J8772A)
2 open module slots
72 10/100 ports
Supports a maximum of 120 10/100 ports
or 48 Gigabit ports or 8 mini-GBICs,
or a combination

Chassis

ProCurve Switch 4208vl (J8773A)
8 open module slots
Supports a maximum of 192 10/100 ports
or 192 10/100/1000 ports or
32 mini-GBICs, or a combination

ProCurve Switch 4204vl (J8770A)
4 open module slots
Supports a maximum of 96 10/100 ports,
96 10/100/1000 ports, or 16 mini-GBICs,
or a combination

ProCurve Switch 4200vl Series Modules

ProCurve Switch vl 24-Port Gig-T Module (J8768A)

ProCurve Switch vl 12-Port 100-FX MTRJ Module (J8763A)

ProCurve Switch vl 24-Port 10/100-TX Module (J8765A)

ProCurve Switch vl 20-Port Gig-T + 4-Port SFP Module (J9033A)

ProCurve Switch vl 4-Port Mini-GBIC Module (J8776A)

ProCurve Switch gl/xl/vl Redundant Power Supply (J4839A)

ProCurve Edge Devices—LAN (continued)

Edge Switches—Managed (continued)

ProCurve Switch 2900 Series

· High-performance Gigabit-to-the-desktop switches

· The most flexible and easy-to-deploy multiple 10-Gigabit stacking and uplinks in its class

· A cost-effective, future-proof solution for customers who are building high-performance networks

10/100/1000 switches with integrated 10-GbE

ProCurve Switch 2900-48G (J9050A)

44 10/100/1000 ports

4 dual-personality ports—each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-TX; IEEE 802.3ab 1000Base-T Gigabit Ethernet) or an open mini-GBIC slot (for use with mini-GBIC transceivers)

ProCurve Switch 2900-24G (J9049A)

20 10/100/1000 ports

4 dual-personality ports—each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-TX; IEEE 802.3ab 1000Base-T Gigabit Ethernet) or an open mini-GBIC slot (for use with mini-GBIC transceivers)

ProCurve Switch 2810 Series

· Advanced Layer 2 features including access security, advanced traffic monitoring, and QoS

· Shallow enclosure for deployments in constrained spaces

· Ideal for high-performance and secure 10/100 and Gigabit edge connectivity

10/100/1000 switches

ProCurve Switch 2810-48G (J9022A)

44 10/100/1000 ports

4 dual-personality ports—each port can be used as either an RJ-45 10/100/1000 port or an open mini-GBIC slot (for use with mini-GBIC transceivers)

ProCurve Switch 2810-24G (J9021A)

20 10/100/1000 ports

4 dual-personality ports—each port can be used as either an RJ-45 10/100/1000 port or an open mini-GBIC slot (for use with mini-GBIC transceivers)

ProCurve Switch 2800 Series

· Static IP routing for routing between VLANs or in multi-VLAN environments

10/100/1000 switches

ProCurve Switch 2848 (J4904A)

44 10/100/1000 ports

4 dual-personality ports—each port can be used as either an RJ-45 10/100/1000 port or an open mini-GBIC slot (for use with mini-GBIC transceivers)

ProCurve Switch 2824 (J4903A)

20 10/100/1000 ports

4 dual-personality ports—each port can be used as either an RJ-45 10/100/1000 port or an open mini-GBIC slot (for use with mini-GBIC transceivers)

ProCurve Edge Devices—LAN (continued)

Edge Switches—Managed (continued)

ProCurve Switch 2600 Series

- Managed 10/100 stackables with dual-personality Gigabit uplinks
- Award-winning software feature set includes access security, link redundancy, and IP static routes
- Convergence support including LLDP-MED, RPS, and Power over Ethernet available on selected models for those customers seeking cost-effective deployment and management of WLAN access points, IP phones, and security cameras

10/100 switches

ProCurve Switch 2650 (J4899B)

48 10/100 ports

2 dual-personality ports—each port can be used as either an RJ-45 10/100/1000 port or an open mini-GBIC slot (for use with mini-GBIC transceivers)

ProCurve Switch 2626 (J4900B)

24 10/100 ports

2 dual-personality ports—each port can be used as either an RJ-45 10/100/1000 port or an open mini-GBIC slot (for use with mini-GBIC transceivers)

10/100 PoE switches

ProCurve Switch 2650-PWR (J8165A)

48 10/100 ports

2 dual-personality ports—each port can be used as either an RJ-45 10/100/1000 port or an open mini-GBIC slot (for use with mini-GBIC transceivers)

ProCurve Switch 2626-PWR (J8164A)

24 10/100 ports

2 dual-personality ports—each port can be used as either an RJ-45 10/100/1000 port or an open mini-GBIC slot (for use with mini-GBIC transceivers)

ProCurve Switch 2600-8-PWR with Gigabit Uplink (J8762A)

8 10/100 ports

1 dual-personality port—each port can be used as either an RJ-45 10/100/1000 port or an open mini-GBIC slot (for use with mini-GBIC transceivers)

ProCurve Switch 2510 Series

- Entry-level, Layer 2, 10/100 managed switch with Gigabit uplinks
- Designed to cost-effectively meet the needs of small and growing networks
- Fanless design enables quiet operation for deployment flexibility

10/100 switch

ProCurve Switch 2510-24 (J9019A)

24 10/100 ports

2 dual-personality ports—each port can be used as either an RJ-45 10/100/1000 port or an open mini-GBIC slot (for use with mini-GBIC transceivers)

ProCurve Switch 2500 Series

- Entry-level, Layer 2, 10/100 managed switch with 2 transceiver slots
- Provides Gigabit or 100Base-FX ports for uplinks or server connections

10/100 switches

ProCurve Switch 2524 (J4813A)

24 10/100 ports

2 open transceiver slots

ProCurve Switch 2512 (J4812A)

12 10/100 ports

2 open transceiver slots

ProCurve Edge Devices—LAN (continued)

Edge Switches—Web Managed

ProCurve Switch 1800 Series

· Ideal for businesses making the transition from unmanaged connectivity to managed networks

· Manage and monitor via an intuitive Web interface with support for basic networking capabilities

· Provides deployment flexibility with small form factors and fanless operation

10/100/1000 switches

ProCurve Switch 1800-24G (J9028B)

22 10/100/1000 ports

2 dual-personality ports—each port can be used as either an RJ-45 10/100/1000 port or an open mini-GBIC slot (for use with mini-GBIC transceivers)

ProCurve Switch 1800-8G (J9029A)

8 10/100/1000 ports

ProCurve Switch 1700 Series

· Ideal for businesses making the transition from unmanaged to managed networks

· Reliable and affordable network connectivity with basic configuration capabilities via a Web browser

10/100 switches

ProCurve Switch 1700-24 (J9080A)

22 10/100 ports

2 dual-personality ports—each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-TX; IEEE 802.3ab 1000Base-T Gigabit Ethernet) or an open mini-GBIC slot (for use with mini-GBIC transceivers)

ProCurve Switch 1700-8 (J9079A)

7 10/100 ports

1 10/100/1000 port

Edge Switches—Unmanaged

ProCurve Switch 1400 Series

· Reliable and affordable network connectivity with plug-and-play simplicity for high-bandwidth connectivity

· Ideal for small and growing businesses that want increased connectivity to each other and to network resources

· Silent operation via a fanless design

10/100/1000 switches

ProCurve Switch 1400-24G (J9078A)

22 10/100/1000 ports

2 dual-personality ports—each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-TX; IEEE 802.3ab 1000Base-T Gigabit Ethernet) or an open mini-GBIC slot (for use with mini-GBIC transceivers)

ProCurve Switch 1400-8G (J9077A)

8 10/100/1000 ports

ProCurve Switch 2300 Series

- Unmanaged 24- and 12-port switches offer choice and flexibility
- Provides Gigabit or 100Base-FX ports for uplinks or server connections

10/100 switches

ProCurve Switch 2324 (J4818A)
24 10/100 ports
2 open transceiver slots

ProCurve Switch 2312 (J4817A)
12 10/100 ports
2 open transceiver slots

ProCurve Switch 2124

- Unmanaged, 24-port 10/100 switch
- Provides a slot for an optional 100Base-FX transceiver that allows for an uplink or server connection

10/100 switch

ProCurve Switch 2124 (J4868A)
24 10/100 ports
1 open transceiver slot

ProCurve Switch 408

- Small form factor, unmanaged 8-port 10/100 switch
- Ideal for small networks and desktop use

10/100 switch

ProCurve Switch 408 (J4097C)
8 10/100 ports

ProCurve Switch Accessories

ProCurve Redundant External Power Supply

For J4903A, J4904A, J4905A, J4906A, J8161A, J8164A, J8165A, J8753A, and J8762A

ProCurve 600 Redundant External Power Supply (J8168A)
6 redundant power supply ports
2 external power supply ports

For J8692A, J8693A, J8992A, J9049A, and J9050A

ProCurve 620 Redundant External Power Supply (J8696A)
2 redundant power supply ports
2 external power supply ports

ProCurve External Power Supply

For J8161A, J8164A, and J8165A

ProCurve 610 External Power Supply (J8169A)
4 external power supply ports

ProCurve Mini-GBICs and SFPs

For J4878B, J4885A, J4894A, J4899B, J4900B, J4902A, J4903A, J4904A, J4905A, J4906A, J4907A, J8164A, J8165A, J8166A, J8167A, J8692A, J8693A, J8705A, J8706A, J8735A, J8762A, J8776A, J8992A, J9019A, J9021A, J9022A, J9028B, J9030A, J9033A, J9049A, J9050A, J9064A, J9078A, and J9080A

ProCurve Gigabit-SX-LC Mini-GBIC (J4858C)

ProCurve Gigabit-LX-LC Mini-GBIC (J4859C)

ProCurve Gigabit-LH-LC Mini-GBIC (J4860C)

For J4878B, J4885A, J4894A, J8705A, J8706A, J8735A, J8776A, J8992A, J9030A, J9033A, and J9064A

ProCurve Gigabit 1000Base-T Mini-GBIC (J8177B)

For J4903A, J4904A, J8692A, J8693A, J8705A, J8706A, J8992A, J9019A, J9021A, J9022A, J9030A, J9033A, J9049A, J9050A, and J9064A

ProCurve 100-FX SFP-LC Transceiver (J9054B)

ProCurve 10-GbE Optics and Transceivers

For J4905A*, J4906A*, J8433A*, J8435A, J8474A, J8694A, J8707A, J8737A, J9049A, and J9050A

ProCurve 10-GbE X2-CX4 Transceiver (J8440B)

ProCurve 10-GbE X2-SC SR Optic (J8436A)
ProCurve 10-GbE X2-SC LR Optic (J8437A)
ProCurve 10-GbE X2-SC ER Optic (J8438A)

For J8433A, J8434A, J8440B, J8694A, J8708A, J9049A, and J9050A

ProCurve 10-GbE CX4 Media Converter (J8439A), not pictured

* Requires ProCurve Switch cl 10-GbE Media Flex Module (J8435A)

XENPAK Optics

For J8174A

ProCurve 10-GbE XENPAK LR Optic (J8173A)
ProCurve 10-GbE XENPAK SR Optic (J8175A)
ProCurve 10-GbE XENPAK ER Optic (J8176A)

ProCurve 100-FX Transceiver

For J4812A, J4813A, J4817A, J4818A, and J4868A

ProCurve 100-FX SC Transceiver (J4853A)

ProCurve Gigabit Transceivers

For J4812A, J4813A, J4817A, and J4818A

ProCurve Gigabit-SX Transceiver (J4131B)

ProCurve Gigabit-LX Transceiver (J4132A)

ProCurve 100/1000-T Transceiver (J4834A)

ProCurve Switch Gigabit Stacking Kit (J4116A)

ProCurve Switch cl Modules

For J4905A, J4906A, J8433A, and J8474A

ProCurve Switch cl 10-GbE Media Flex Module (J8435A)

ProCurve Switch cl 10-GbE CX4 Copper Module (J8434A)

ProCurve Switch yl Modules

For J8692A, J8693A, and J8992A

ProCurve Switch yl 10-GbE 2-Port CX4 and 2-Port X2 Module (J8694A)

ProCurve Edge Devices—Wireless LAN

Wireless Edge Services

Wireless Edge Services Modules

- Centrally administered, edge-enforced, policy-based network access control provides secure and appropriate access to network resources based on user identity
- Integrated guest account administration simplifies guest account creation and network access control of wireless guest users
- Layer 3 mobility maintains client connectivity as users roam across network boundaries
- Layer 3 ProCurve Radio Port adoption simplifies wireless LAN radio port deployment
- Business-critical application support, including voice over wireless LAN (VoWLAN)-ready architecture
- Wireless sFlow support extends ProCurve Network Immunity Manager threat detection and mitigation capabilities to the wireless LAN
- Easy deployment, scalable capacity expansion via software license reduces total cost of ownership

NEW ProCurve Wireless Edge Services zl Module (J9051A)

NEW ProCurve Redundant Wireless Services zl Module (J9052A)

NEW ProCurve Wireless Services zl 12 RP License (J9053A)
Adds up to 12 radio ports

NEW ProCurve Wireless Services zl 48 RP License (J9090A)
Adds up to 48 radio ports

ProCurve Wireless Edge Services xl Module (J9001A)

ProCurve Redundant Wireless Services xl Module (J9003A)

ProCurve Wireless Services Module 12 RP License (J9002A)
Adds up to 12 radio ports

ProCurve Radio Ports*

ProCurve Radio Port 210 (J9004A)**

ProCurve Radio Port 220 (J9005A)***

ProCurve Radio Port 230 (J9006A)**

　　* Requires ProCurve Wireless Edge Services xl Module (J9001A)
　** Internal antenna included
*** Requires purchase of an external antenna

ProCurve Edge Devices—Wireless LAN (continued)

Secure Access

Wireless LAN access control and management for businesses of any size

ProCurve Secure Access 745wl Series and 745wl Series Accessories

- Specialized, highly secure access solution for demanding client environments
- Seamless secure roaming provides session persistence while maintaining robust security
- Best-in-class centralized policy control
- Interoperable with third-party network infrastructure
- Client-agnostic for maximum customer choice

ProCurve Access Control Server 745wl (J9038A)
1 10/100/1000 port

ProCurve Switch xl Access Controller Module (J8162A)*

* Requires use of a ProCurve Access Control Server 745wl (J9038A) on the network

Access Points

ProCurve Access Point 530

- Highly intelligent standalone access point for distributed sites
- Designed for small to medium wireless LAN deployments
- Built-in RADIUS authentication services provide local user authentication and failover authentication in the event communication to corporate RADIUS servers is interrupted
- Centrally administered, edge-enforced, policy-based network access control provides secure and appropriate access to network resources based on user identity
- Built-in Web authentication provides flexible user authentication options including secure guest access
- Access Point group configuration securely exchanges configuration changes among all members in a designated configuration group
- Wireless sFlow support extends ProCurve Network Immunity Manager threat detection and mitigation capabilities to the wireless LAN
- Simultaneous support for IEEE 802.11a and 802.11b/g standards, as well as dual IEEE 802.11b/g radio operation
- IEEE 802.3af Power over Ethernet simplifies deployment and reduces installation costs
- Integrated and optional external antennas for high flexibility
- Supports wireless bridging on either radio

ProCurve Access Point 530 (J8987A)

ProCurve Wireless Access Point 420

- Single radio IEEE 802.11b/g access point provides secure, trouble-free WLAN connectivity
- Cost-effective solution for wireless deployments that do not require IEEE 802.11a wireless client support
- Detachable antenna design enables use of external antennas for improved radio coverage and performance
- IEEE 802.3af Power over Ethernet simplifies deployment and reduces installation costs

ProCurve Wireless Access Point 420 (J8131B)

Antennas

ProCurve External Access Point Antennas

Directional

ProCurve 14 dBi 5 GHz Directional Antenna (J9000A)

ProCurve 14 dBi Yagi Antenna (J8448B)

Omnidirectional

ProCurve 5 dBi Indoor/Outdoor Omnidirectional Antenna (J8441A)

ProCurve 8 dBi Outdoor Omnidirectional Antenna (J8444A)

ProCurve 6 dBi 5 GHz Omnidirectional Antenna (J8998A)

Dual band

ProCurve 7 dBi Dual Band Directional Antenna (J8999A)

ProCurve 3 dBi Dual Band Diversity Antenna (J8997A)

Accessories

ProCurve Antenna Lightning Arrester (J8996A)

ProCurve Network Management

Master a dynamic network with fast access to real-time information from an intuitive interface, and with automated tools that take action when problems arise. ProCurve Manager, ProCurve Manager Plus, Identity Driven Manager, and Mobility Manager give you the power to dynamically manage user access, devices, and traffic from a simple, top-down perspective.

ProCurve Manager 2.2

This Windows® -based network management solution is included with all basic, managed ProCurve devices.

- Provides capabilities including device auto-discovery, troubleshooting data and alerts, device configuration and management
- Free download from www.hp.com includes a 30-day trial version of ProCurve Manager Plus 2.2, ProCurve Identity Driven Manager 2.2, ProCurve Mobility Manager 1.1, and ProCurve Network Immunity Manager 1.0
- Ideal product for customers who need to manage small numbers of ProCurve devices with limited administration resources
- Provides simple health status, event visibility, and network mapping of devices

ProCurve Manager Plus 2.2

New PCM+ 2.2 installation:
50-device license (J9057A)
Add additional licenses in 100-device increments (J9058A)
Unlimited devices license (J9059A)

Upgrade from PCM+ (1.6 or newer):
50-device license (J9056A)*
Unlimited devices license (J9059A)

ProCurve Manager Plus is a comprehensive, Windows-based network management solution that provides robust and detailed management of ProCurve devices.

- Configure, update, monitor, and troubleshoot ProCurve devices centrally with easy-to-use screens
- Fast access to real-time information from an intuitive interface
- Ability to monitor device traffic and group devices for easy management; can be integrated into HP OpenView Network Node Manager and is required for use with ProCurve Identity Driven Manager, Mobility Manager, and Network Immunity Manager software
- Included with selected ProCurve Networking managed devices as a 30-day free trial

* Additional licenses require J9058A or purchase unlimited license J9059A

NEW ProCurve Identity Driven Manager 2.2

New IDM 2.2 installations:
Manage 500 users or less (J9012A)
Add additional users in 2,000-user increments (J9014A)

Upgrade from IDM 1.0:
Manage up to 500 users (J9013A)
Add additional users in 2,000-user increments (J9014A)

Identity Driven Manager 2.2 enables dynamic control of user access rights (including bandwidth, QoS, ACLs, and VLAN assignment) by user, time of day, day of week, port location, and/or endpoint integrity. A controlled and dynamic network more fully secures which users access the network.

- Version 2.2 adds additional user control, including improved resource access control, reporting, and enhanced integration with user databases
- Plug-in for ProCurve Manager Plus 2.2
- 30-day free trial included on ProCurve Manager Plus 2.2 CD

NEW ProCurve Mobility Manager 1.1 (J8990A)

This software allows you to manage your ProCurve wireless network, with a rich toolset to simplify troubleshooting and implementation.

- Detect rogue access points, access quick-view screens of the wireless network, and easily add more capacity
- Manage your ProCurve wired and wireless networks from an integrated network platform
- Included on ProCurve Manager Plus 2.2 CD as a 30-day free trial
- Plug-in for ProCurve Manager Plus 2.2

NEW ProCurve Network Immunity Manager 1.0

New NIM 1.0 installation:
50-device license (J9060A)
Add additional licenses in 100-device increments (J9061A)
Unlimited devices license (J9062A)

An add-on module for ProCurve Manager Plus 2.2 that detects and automatically responds to threats inside the network such as virus attacks.

- Monitors devices across the network for internal threats and allows administrators to set detection and response security policies
- Leverages security traffic monitoring features such as sFlow, virus throttle, and remote mirroring technologies
- Performs NBAD (Network Behavior Anomaly Detection) and optionally remotely mirrors suspect traffic to an IDS/IPS/UTM appliance
- Provides visibility into threat activity inside the network and helps administrators maximize network availability
- Included on ProCurve Manager Plus 2.2 CD as a 30-day free trial
- Plug-in for ProCurve Manager Plus 2.2
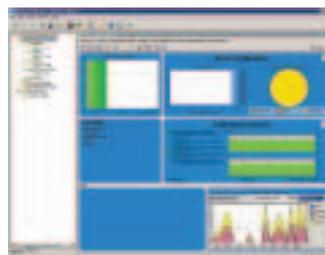
ProCurve Network Security

NEW **ProCurve Network Access Controller 800 (J9065A)**

NEW **ProCurve NAC Endpoint Integrity Agent**

ProCurve NAC Endpoint Integrity Agent License for 100 clients (J9066A)

ProCurve NAC Endpoint Integrity Agent License for 250 clients (J9067A)

ProCurve NAC Endpoint Integrity Agent License for 1,000 clients (J9068A)

ProCurve NAC Endpoint Integrity Agent License for 5,000 clients (J9069A)

ProCurve NAC Endpoint Integrity Agent 1 year Maintenance License for 100 clients (J9070A)

ProCurve NAC Endpoint Integrity Agent 1 year Maintenance License for 250 clients (J9071A)

ProCurve NAC Endpoint Integrity Agent 1 year Maintenance License for 1,000 clients (J9072A)

ProCurve NAC Endpoint Integrity Agent 1 year Maintenance License for 5,000 clients (J9073A)

NEW

ProCurve Identity Driven Manager 2.2

ProCurve Identity Driven Manager 2.0 base product—500-user license (J9012A)

ProCurve Identity Driven Manager 2.0 base product—upgrade from v1.0 (J9013A)

ProCurve Identity Driven Manager 2.0—add 2000 users license (J9014A)

NEW

ProCurve Network Immunity Manager 1.0

ProCurve Network Immunity Manager 1.0 50-device license (J9060A)

ProCurve Network Immunity Manager 1.0 +100-device license (J9061A)

ProCurve Network Immunity Manager 1.0 unlimited-device license (J9062A)

ProCurve Service & Support

Free support services covered by ProCurve warranty
www.procurve.eu/support

- **Industry-leading lifetime warranty** with next-business-day advance replacement (available in most countries)—covering the entire product, with next-business-day delivery of a replacement unit or part for the entire warranty period, at no additional cost

- **MyProCurve.com**—Personalized user portal with free 24x7 Web support services
- **Call ProCurve Direct**—Unique free post-sales phone support in local language in more than 30 countries during extended business hours
- **Free software updates** for the lifetime of your product
- **Free network management software**

ProCurve Networking services complementing ProCurve warranty
www.procurve.eu/services

- **Free network design and configuration services**
- **Service Advantage Partners**—Selected, highly qualified partners deliver service and support for ProCurve products and solutions
- **HP Care Packs & contracts for ProCurve**—HP Care Packs and contracts complement HP's industry-leading warranty
- **ProCurve Training & Certification** for partners, resellers and customers

*For as long as you own the product, with next-business-day advance replacement (available in most countries). The following products and their related family modules have a one-year warranty with extensions available: ProCurve Routing Switch 9300m series, ProCurve Switch 8100fl series, ProCurve Access Control Server 745wl, and the ProCurve Network Access Controller 800. For details, refer to the ProCurve Software License, Warranty, and Support booklet at **www.procurve.eu/support**

**For next day travel zones please check by phone with your 'Call ProCurve Direct' engineer.

ProCurve Feature Matrix

Architectural function

Key features:

	RADIUS accounting services	802.1X (wired and wireless)	Monitored logon authentication	RADIUS user authentication	TACACS+ (fully AAA—Authentication, and Accounting)	LDAP authentication services support	Kerberos authentication services	Central Authentication, Authorization, services	Central configuration file management and control	Central, GUI-based VLAN creation and management	Central firmware monitoring and update management	Central device discovery and topology mapping	Central event management and monitoring	Central traffic management and monitoring	Network threat detection and response	sFlow	SSH for CLI	BootROM update automated with software update	Find node by MAC or IP	Trace path between two nodes	Device driver updates without software role	s700 trap definitions (CIP)	Traffic thresholds trigger events	Capture CDB registration data
ProCurve Core Switches																								
Traditional Core Switches																								
ProCurve Routing Switch 9300m Series	✓	✓		✓	✓											✓	✓							
Interconnect Fabric Switches																								
ProCurve Switch 8212zl		✓		✓	✓											✓	✓							
ProCurve Switch 8100fl Series	✓			✓	✓												✓							
Aggregators																								
ProCurve Switch 6400cl Series		✓		✓												✓	✓							
ProCurve Switch 6200yl-24G-mGBIC		✓		✓	✓											✓	✓							
ProCurve Switch 6108		✓		✓													✓							
ProCurve Edge Devices—WAN																								
ProCurve Secure Router 7000dl Series		✓		✓	✓												✓							
ProCurve Edge Devices—LAN																								
Intelligent Edge Switches																								
ProCurve Switch 5400zl Series		✓		✓	✓											✓	✓							
ProCurve Switch 3500yl Series		✓		✓	✓											✓	✓							
ProCurve Switch 5300xl Series		✓	5	✓	✓	5	5									✓	✓							
ProCurve Switch 3400cl Series		✓		✓	✓											✓	✓							
Edge Switches—Managed																								
ProCurve Switch 4200vl Series		✓		✓	✓											✓	✓							
ProCurve Switch 2900 Series		✓		✓	✓											✓	✓							
ProCurve Switch 2810 Series		✓		✓												✓	✓							
ProCurve Switch 2800 Series		✓		✓												✓	✓							
ProCurve Switch 2600 Series		✓		✓	✓												✓							
ProCurve Switch 2510 Series		✓		✓													✓							
ProCurve Switch 2500 Series		✓		✓													✓							
Edge Switches—Web Managed																								
ProCurve Switch 1800 Series																								
ProCurve Switch 1700 Series																								
Edge Switches—Unmanaged																								
ProCurve Switch 2300 Series																								
ProCurve Switch 2124																								
ProCurve Switch 1400 Series																								
ProCurve Switch 408																								
ProCurve Edge Devices—Wireless LAN																								
ProCurve Access Control Server 745wl	3	✓	✓	✓		✓	✓							✓										
ProCurve Switch xl Access Controller Module[1]	3	✓	✓	✓		✓	✓							✓										
ProCurve Access Point 530	3	✓		✓												✓	✓							
ProCurve Wireless Access Point 420	3	✓		✓													✓							
ProCurve External Access Point Antennas																								
ProCurve Radio Ports[2]																								
ProCurve Wireless Edge Services zl Module	3	✓		✓		✓										✓	✓							
ProCurve Wireless Edge Services xl Module	3	✓		✓		✓										✓	✓							
ProCurve Network Management																								
ProCurve Manager 2.2										✓	✓	✓		✓										
ProCurve Manager Plus 2.2									✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
ProCurve Identity Driven Manager 2.1									✓		✓	✓		✓	✓	✓								✓
ProCurve Mobility Manager 1.1																								
ProCurve Network Immunity Manager 1.0															✓	✓								

[1] Requires ProCurve Access Control Server 745wl (J9038A).
[2] Requires ProCurve Wireless Edge Services xl Module (J9001A).
[3] RADIUS accounting services supported include Network, Executive, and System accounting.
[4] DHCP relay only, not client.
[5] 5300xl Access Controller Module plus Access Control Server 745wl.
[6] Maximum of 2 authentications per port.
[7] Premium software.
[8] Modules operate in performance load-sharing mode.

Architectural function

Key features: **Infrastructure capabilities**

	Remote intelligent mirroring	Multiple configuration and image files	SNMPv3	VLAN assignment based on user authorization (wired and wireless)	Central authorization of management access	Syslog server	Administrator configures events to recognize and associate policies to execute	Access rights assignment based on user authorization (wireless)	Central threshold and alert trigger creation and management	Set QoS via RADIUS (IDM)	Set VLAN via RADIUS (IDM)	Set rate limit via RADIUS (IDM)	Set ACLs via RADIUS (IDM)	Network event correlation to predict and avoid network downtime	Automated premium license installation	Automated wireless LAN rogue access point detection	802.1X user authentication (RADIUS)	Multiple 802.1X sessions (users) per port	Web-based user authentication (RADIUS)	MAC-based user authentication (RADIUS)	802.1X and either Web or MAC-based authentication enabled at the port at the same time
ProCurve Core Switches																					
Traditional Core Switches																					
ProCurve Routing Switch 9300m Series		✓	✓	✓	✓												✓	✓		✓	
Interconnect Fabric Switches																					
ProCurve Switch 8212zl	✓	✓	✓	✓	✓					✓	✓	✓	✓				✓	✓	✓	✓	✓
ProCurve Switch 8100fl Series		✓			✓																
Aggregators																					
ProCurve Switch 6400cl Series		✓	✓	✓	✓					✓							✓	✓	✓	✓	
ProCurve Switch 6200yl-24G-mGBIC	✓	✓	✓	✓	✓					✓	✓	✓	✓				✓	✓	✓	✓	
ProCurve Switch 6108		✓	✓	✓						✓	✓						✓		✓	✓	
ProCurve Edge Devices—WAN																					
ProCurve Secure Router 7000dl Series		✓			✓																
ProCurve Edge Devices—LAN																					
Intelligent Edge Switches																					
ProCurve Switch 5400zl Series	✓	✓	✓	✓	✓					✓	✓	✓	✓				✓	✓	✓	✓	✓
ProCurve Switch 3500yl Series	✓	✓	✓	✓	✓					✓	✓	✓	✓				✓	✓	✓	✓	✓
ProCurve Switch 5300xl Series		✓	✓	✓	✓	5				✓	✓	✓	✓				✓	✓	✓	✓	✓
ProCurve Switch 3400cl Series		✓	✓	✓	✓					✓	✓	✓					✓	✓	✓	✓	
Edge Switches—Managed																					
ProCurve Switch 4200vl Series		✓	✓	✓	✓					✓	✓						✓	✓	✓	✓	✓
ProCurve Switch 2900 Series		✓	✓	✓	✓					✓	✓						✓	✓	✓	✓	✓
ProCurve Switch 2810 Series		✓	✓	✓						✓	✓						✓	✓	✓	✓	
ProCurve Switch 2800 Series		✓	✓	✓						✓	✓						✓	✓	✓	✓	
ProCurve Switch 2600 Series		✓	✓	✓						✓	✓						✓	✓	✓	✓	
ProCurve Switch 2510 Series		✓	✓	✓							✓						✓	✓	✓	✓	
ProCurve Switch 2500 Series			✓	✓							✓						✓				
Edge Switches—Web Managed																					
ProCurve Switch 1800 Series																					
ProCurve Switch 1700 Series																					
Edge Switches—Unmanaged																					
ProCurve Switch 2300 Series																					
ProCurve Switch 2124																					
ProCurve Switch 1400 Series																					
ProCurve Switch 408																					
ProCurve Edge Devices—Wireless LAN																					
ProCurve Access Control Server 745wl		✓	✓			✓											✓		✓	✓	
ProCurve Switch xl Access Controller Module[1]		✓	✓			✓											✓		✓	✓	
ProCurve Access Point 530			✓			✓				✓	✓	✓				✓	✓			✓	
ProCurve Wireless Access Point 420		✓	✓							✓						✓	✓			✓	
ProCurve External Access Point Antennas																					
ProCurve Radio Ports[2]																					
ProCurve Wireless Edge Services zl Module		✓	✓	✓		✓				✓	✓	✓	✓			✓	✓		✓	✓	
ProCurve Wireless Edge Services xl Module		✓	✓	✓		✓				✓	✓	✓	✓			✓	✓		✓	✓	
ProCurve Network Management																					
ProCurve Manager 2.2		✓			✓										✓						
ProCurve Manager Plus 2.2		✓		✓	✓	✓		✓						✓	✓						
ProCurve Identity Driven Manager 2.1																					
ProCurve Mobility Manager 1.1																					
ProCurve Network Immunity Manager 1.0																					

---

[1] Requires ProCurve Access Control Server 745wl (J9038A).
[2] Requires ProCurve Wireless Edge Services xl Module (J9001A).
[3] RADIUS accounting services supported include Network, Executive, and System accounting.
[4] DHCP relay only, not client.

[5] 5300xl Access Controller Module plus Access Control Server 745wl.
[6] Maximum of 2 authentications per port.
[7] Premium software.
[8] Modules operate in performance load-sharing mode.

Architectural function

Key features: **Infrastructure capabilities**

Product	Virus throttling—switch-based network traffic anomaly monitoring with rate limiting policies at the switch to mitigate/prevent worm-type virus damage/infection	CPU denial of service protection	Dynamic ARP protection	BPDU port protection	DHCP protection	Web-based user authentication through centralized Access Control Server	RADIUS server	RADIUS authentication for manager login	VPN authentication (PPTP and L2TP/IPSec)	DHCP relay, client	DHCP opt. 82	DHCP server	Access control lists (ACLs) (what)	Access policy (what, when, where)	802.1Q VLANs	Voice VLAN (requires LLDP-MED)	LLDP	LLDP-MED	GVRP	Switch meshing	802.1D-1998 Spanning Tree	802.1w Rapid Spanning Tree	802.1s Multiple Spanning Trees
ProCurve Core Switches																							
Traditional Core Switches																							
ProCurve Routing Switch 9300m Series													✓		✓					✓	✓	✓	✓
Interconnect Fabric Switches																							
ProCurve Switch 8212zl	✓	✓	✓	✓	✓	✓			✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ProCurve Switch 8100fl Series		✓								4		✓	✓		✓						✓	✓	✓
Aggregators																							
ProCurve Switch 6400cl Series									✓	✓		✓	✓		✓					✓	✓	✓	✓
ProCurve Switch 6200yl-24G-mGBIC	✓	✓	✓	✓	✓	✓			✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ProCurve Switch 6108												✓	✓		✓					✓	✓	✓	
ProCurve Edge Devices—WAN																							
ProCurve Secure Router 7000dl Series									✓	✓	✓	✓	✓		✓						✓		✓
ProCurve Edge Devices—LAN																							
Intelligent Edge Switches																							
ProCurve Switch 5400zl Series	✓	✓	✓	✓	✓	✓			✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ProCurve Switch 3500yl Series	✓	✓	✓	✓	✓	✓			✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ProCurve Switch 5300xl Series	✓		✓	✓		5	✓		5	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ProCurve Switch 3400cl Series			✓	✓					✓	✓		✓	✓		✓					✓	✓	✓	✓
Edge Switches—Managed																							
ProCurve Switch 4200vl Series						✓			✓			✓	✓		✓	✓	✓				✓	✓	✓
ProCurve Switch 2900 Series				✓		✓			✓			✓	✓		✓	✓	✓	✓			✓	✓	✓
ProCurve Switch 2810 Series													✓		✓		✓				✓	✓	✓
ProCurve Switch 2800 Series									✓	✓			✓		✓		✓				✓	✓	✓
ProCurve Switch 2600 Series									✓	✓			✓		✓	✓	✓				✓	✓	✓
ProCurve Switch 2510 Series													✓		✓		✓				✓	✓	✓
ProCurve Switch 2500 Series													✓		✓		✓				✓	✓	
Edge Switches—Web Managed																							
ProCurve Switch 1800 Series													✓	✓									
ProCurve Switch 1700 Series													✓	✓									
Edge Switches—Unmanaged																							
ProCurve Switch 2300 Series																							
ProCurve Switch 2124																							
ProCurve Switch 1400 Series																							
ProCurve Switch 408																							
ProCurve Edge Devices—Wireless LAN																							
ProCurve Access Control Server 745wl						✓		✓	✓			✓	✓	✓									
ProCurve Switch xl Access Controller Module[1]						✓		✓	✓	✓	✓	✓											
ProCurve Access Point 530															✓					✓			
ProCurve Wireless Access Point 420															✓								
ProCurve External Access Point Antennas																							
ProCurve Radio Ports[2]																	✓						
ProCurve Wireless Edge Services zl Module							✓	✓	✓		✓	✓	✓	✓									
ProCurve Wireless Edge Services xl Module						✓	✓		✓		✓	✓	✓	✓									
ProCurve Network Management																							
ProCurve Manager 2.2																							
ProCurve Manager Plus 2.2						✓																	
ProCurve Identity Driven Manager 2.1																							
ProCurve Mobility Manager 1.1																							
ProCurve Network Immunity Manager 1.0																							

[1] Requires ProCurve Access Control Server 745wl (J9038A).
[2] Requires ProCurve Wireless Edge Services xl Module (J9001A).
[3] RADIUS accounting services supported include Network, Executive, and System accounting.
[4] DHCP relay only, not client.
[5] 5300xl Access Controller Module plus Access Control Server 745wl.
[6] Maximum of 2 authentications per port.
[7] Premium software.
[8] Modules operate in performance load-sharing mode.

Architectural function

Key features: **Infrastructure capabilities** | **Wired-specific capabilities** | **Wireless-specific capabilities** | **WAN-specific capabilities**

	Redundant Router Protocol (VRRP)	Redundant Router Protocol (XRRP)	IGMP support	PIM SM	PIM DM	Redundant power supplies	Redundant management	OSPF	Static routing	Policy-based routing	RIP v1/v2	BGPv4	Redundant switch fabric	802.3af Power over Ethernet	Auto-MDIX	WEP	WPA	WPA2/IEEE 802.11i	Wireless user load balancing	L3 wireless roaming	Multiple SSIDs	Rogue AP detection	SpectraLink Voice Priority support	Multiprotocol support (IPX, SNA, etc.)
ProCurve Core Switches																								
Traditional Core Switches																								
ProCurve Routing Switch 9300m Series	✓		✓	✓	✓	✓	✓	✓			✓	✓			✓									✓
Interconnect Fabric Switches																								
ProCurve Switch 8212zl	✓		✓	✓	✓	✓	✓	✓	✓		✓		8	✓	✓									
ProCurve Switch 8100fl Series	✓		✓		✓	✓	✓				✓		✓											
Aggregators																								
ProCurve Switch 6400cl Series		✓	✓		✓	✓		✓	✓		✓				✓									
ProCurve Switch 6200yl-24G-mGBIC	✓		✓	✓	✓			✓	✓		✓				✓									
ProCurve Switch 6108			✓			✓									✓									
ProCurve Edge Devices—WAN																								
ProCurve Secure Router 7000dl Series			✓	✓		✓		✓	✓	✓	✓	✓			✓									
ProCurve Edge Devices—LAN																								
Intelligent Edge Switches																								
ProCurve Switch 5400zl Series	7		✓	7	7	✓		7	✓		✓			✓	✓									
ProCurve Switch 3500yl Series	7		✓	7	7	✓		7	✓		✓			✓	✓									
ProCurve Switch 5300xl Series		✓	✓		✓	✓		✓	✓		✓			✓	✓					5				
ProCurve Switch 3400cl Series		✓	✓		✓	✓		✓	✓		✓				✓									
Edge Switches—Managed																								
ProCurve Switch 4200vl Series			✓			✓			✓						✓									
ProCurve Switch 2900 Series			✓			✓			✓		✓				✓									
ProCurve Switch 2810 Series			✓			✓									✓									
ProCurve Switch 2800 Series			✓			✓			✓						✓									
ProCurve Switch 2600 Series			✓			✓			✓					✓	✓									
ProCurve Switch 2510 Series			✓												✓									
ProCurve Switch 2500 Series			✓												✓									
Edge Switches—Web Managed																								
ProCurve Switch 1800 Series															✓									
ProCurve Switch 1700 Series															✓									
Edge Switches—Unmanaged																								
ProCurve Switch 2300 Series																								
ProCurve Switch 2124																								
ProCurve Switch 1400 Series															✓									
ProCurve Switch 408																								
ProCurve Edge Devices—Wireless LAN																								
ProCurve Access Control Server 745wl						✓														✓				
ProCurve Switch xl Access Controller Module[1]						✓														✓				
ProCurve Access Point 530														✓		✓	✓	✓			✓	✓	✓	
ProCurve Wireless Access Point 420														✓		✓	✓	✓			✓	✓	✓	
ProCurve External Access Point Antennas																								
ProCurve Radio Ports[2]														✓										
ProCurve Wireless Edge Services zl Module						✓										✓	✓	✓	✓	✓	✓	✓	✓	
ProCurve Wireless Edge Services xl Module						✓										✓	✓	✓	✓	✓	✓	✓	✓	
ProCurve Network Management																								
ProCurve Manager 2.2																								
ProCurve Manager Plus 2.2																								
ProCurve Identity Driven Manager 2.1																								
ProCurve Mobility Manager 1.1																								
ProCurve Network Immunity Manager 1.0																								

[1] Requires ProCurve Access Control Server 745wl (J9038A).
[2] Requires ProCurve Wireless Edge Services xl Module (J9001A).
[3] RADIUS accounting services supported include Network, Executive, and System accounting.
[4] DHCP relay only, not client.
[5] 5300xl Access Controller Module plus Access Control Server 745wl.
[6] Maximum of 2 authentications per port.
[7] Premium software.
[8] Modules operate in performance load-sharing mode.

Architectural function

Key features: **WAN-specific capabilities**

Column headers (left to right):
1. IPSec VPN gateway to gateway
2. IPSec VPN client to gateway
3. NAT/NAT-T/port translation
4. Stateful firewall
5. Multilink Frame Relay (MLFR)
6. Multilink Point-to-Point Protocol (MLPPP)
7. Safe configuration mode (specify backup image/config upon upgrade or config change failure)
8. Dial-on-demand routing
9. Frame Relay Fragmentation (FRF.12)
10. Frame Relay Traffic Shaping
11. Layer 3 and 4 traffic classification and marking/remarking
12. Assign forwarding priority and mark traffic with 802.1p based on incoming port
13. Map 802.1p to/from DiffServ
14. Guaranteed minimums
15. DiffServ Code Points/IP Precedence
16. Weighted Fair Queuing (WFQ)
17. Priority/Strict Queuing (PQ)
18. Low Latency Queuing (LLQ)
19. Class-Based Weighted Fair Queuing (CBWFQ)
20. DiffServ preservation during VPN encryption
21. Rate limiting (enforced maximums)

Product	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
ProCurve Core Switches																					
Traditional Core Switches																					
ProCurve Routing Switch 9300m Series		✓									✓		✓		✓	✓					✓
Interconnect Fabric Switches																					
ProCurve Switch 8212zl							✓				✓		✓		✓	✓	✓				✓
ProCurve Switch 8100fl Series											✓					✓	✓	✓			✓
Aggregators																					
ProCurve Switch 6400cl Series											✓		✓		✓	✓					✓
ProCurve Switch 6200yl-24G-mGBIC							✓				✓		✓		✓	✓	✓				✓
ProCurve Switch 6108														✓							
ProCurve Edge Devices—WAN																					
ProCurve Secure Router 7000dl Series	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓
ProCurve Edge Devices—LAN																					
Intelligent Edge Switches																					
ProCurve Switch 5400zl Series							✓				✓		✓		✓	✓	✓				✓
ProCurve Switch 3500yl Series							✓				✓		✓		✓	✓	✓				✓
ProCurve Switch 5300xl Series		5									✓		✓		✓	✓	✓				✓
ProCurve Switch 3400cl Series											✓		✓		✓	✓					✓
Edge Switches—Managed																					
ProCurve Switch 4200vl Series											✓					✓					
ProCurve Switch 2900 Series							✓				✓		✓		✓	✓					
ProCurve Switch 2810 Series											✓					✓					
ProCurve Switch 2800 Series											✓	✓				✓					
ProCurve Switch 2600 Series											✓	✓				✓					
ProCurve Switch 2510 Series																					
ProCurve Switch 2500 Series																					
Edge Switches—Web Managed																					
ProCurve Switch 1800 Series																					✓
ProCurve Switch 1700 Series																					✓
Edge Switches—Unmanaged																					
ProCurve Switch 2300 Series																					
ProCurve Switch 2124																					
ProCurve Switch 1400 Series																					
ProCurve Switch 408																					
ProCurve Edge Devices—Wireless LAN																					
ProCurve Access Control Server 745wl																					
ProCurve Switch xl Access Controller Module[1]																					
ProCurve Access Point 530																					
ProCurve Wireless Access Point 420																					
ProCurve External Access Point Antennas																					
ProCurve Radio Ports[2]																					
ProCurve Wireless Edge Services zl Module		✓		✓										✓							
ProCurve Wireless Edge Services xl Module		✓		✓										✓							
ProCurve Network Management																					
ProCurve Manager 2.2																					
ProCurve Manager Plus 2.2																					
ProCurve Identity Driven Manager 2.1																					
ProCurve Mobility Manager 1.1																					
ProCurve Network Immunity Manager 1.0																					

---

[1] Requires ProCurve Access Control Server 745wl (J9038A).
[2] Requires ProCurve Wireless Edge Services xl Module (J9001A).
[3] RADIUS accounting services supported include Network, Executive, and System accounting.
[4] DHCP relay only, not client.

[5] 5300xl Access Controller Module plus Access Control Server 745wl.
[6] Maximum of 2 authentications per port.
[7] Premium software.
[8] Modules operate in performance load-sharing mode.

For more information

To learn more about ProCurve Networking,
please visit **www.procurve.eu**

ProCurve
Networking by HP