

ProCurve Switch 2600 Series

The ProCurve Switch 2600 series is a collection of low-cost, stackable, multi-layer, managed switches with 48, 24, or 8 auto-sensing 10/100 ports and dual-personality ports for 10/100/1000 or mini-GBIC connectivity. The ProCurve Switch 2650-PWR, 2626-PWR, and 2600-8-PWR are IEEE 802.3af-compliant for Power over Ethernet and provide up to 15.4 W per port. A redundant external power supply is also available as an accessory.



ProCurve Switch 2650
(J4899B)



ProCurve Switch 2650-PWR
(J8165A)



ProCurve Switch 2626
(J4900B)



ProCurve Switch 2626-PWR
(J8164A)



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

ProCurve Switch 2600 Series

Features and benefits

Connectivity

- **Dual-personality functionality:** two 10/100/1000 ports or mini-GBIC slots for optional fiber connectivity such as Gigabit-SX, -LX, or -LH
- **Power over Ethernet (IEEE 802.3af) compliant (ProCurve 2650-PWR, ProCurve 2626-PWR, ProCurve 2600-8-PWR):** provides up to 15.4 W per port to power IP phones, wireless access points, Web cameras, and more (ProCurve 2650-PWR may require an external power supply to provide full 15.4 W for all 48 PoE-ready ports)

Performance

- **13.6 Gbps (ProCurve 2650 and 2650-PWR)/9.6 Gbps (ProCurve 2626, 2626-PWR, 2600-8-PWR) backplane:** wire-speed non-blocking architecture for low-latency throughput

Resiliency and high availability

- **IEEE 802.3ad Link Aggregation Control Protocol (LACP) and ProCurve trunking:** support up to 6 trunks, each with up to 4 links (ports) per trunk; trunking across modules is supported
- **Spanning Tree Protocol (IEEE 802.1D):** provides redundant links while preventing network loops
- **IEEE 802.1w Rapid Convergence Spanning Tree Protocol:** increases network uptime through faster recovery from failed links
- **IEEE 802.1s Multiple Spanning Tree:** provides high link availability in multiple VLAN environments by allowing multiple spanning trees
- **Optional external redundant power supply (ProCurve 2650-PWR, ProCurve 2626-PWR, ProCurve 2600-8-PWR):** provides uninterrupted power; sold as an accessory

Layer 2 switching

- **VLAN support and tagging:** support complete IEEE 802.1Q (4,096 VLAN IDs) and 253 VLANs simultaneously
- **GARP VLAN Registration Protocol:** allows automatic learning and dynamic assignment of VLANs

Layer 3 routing

- **Basic IP routing:** enables automatic routing to the connected VLANs and up to 16 static routes--including one default route--in IP networks

Security

- **Port security:** allows access only to specified MAC addresses, which can be learned or specified by the administrator
- **MAC address lockout:** prevents configured particular MAC addresses from connecting to the network
- **IP lockdown:** only allows traffic from a specific IP address to be forwarded
- **Multiple user authentication methods:**
 - **IEEE 802.1X:** industry-standard way of user authentication using an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server
 - **Web-based authentication:** similar to IEEE 802.1X, provides a browser-based environment to authenticate clients that do not support the IEEE 802.1X supplicant
 - **MAC-based authentication:** client is authenticated with the RADIUS server based on the MAC address of the client
- **Secure FTP:** allows secure file transfer to/from the switch; protects against unwanted file downloads or unauthorized copying of switch configuration file
- **TACACS+:** eases switch management security

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administration by using a password authentication server

- **Source-port filtering:** allows only specified ports to communicate with each other
- **Secure Shell (SSHv2):** encrypts all transmitted data for secure, remote command-line interface (CLI) access over IP networks
- **Secure Sockets Layer (SSL):** encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch
- **Switch management logon security:** can require either RADIUS or TACACS+ authentication for secure switch CLI logon

Convergence

- **IEEE 802.1AB Link Layer Discovery Protocol (LLDP):** automated device discovery protocol for easy mapping by network management applications
- **LLDP-MED (Media Endpoint Discovery):** a standard extension of LLDP that stores values for parameters such as QoS and VLAN to automatically configure network devices such as IP phones

Quality of Service (QoS)

- **Traffic prioritization (IEEE 802.1p):** allows real-time traffic classification into 8 priority levels mapped to 4 queues
- **Class of Service (CoS):** sets the IEEE 802.1p priority tag based on IP address, IP Type of Service (ToS), L3 protocol, TCP/UDP port number, source port, and DiffServ
- **Layer 4 prioritization:** enables prioritization based on TCP/UDP port numbers

Manageability

- **RMON:** provides advanced monitoring and reporting capabilities for statistics, history,

alarms, and events

- **Friendly port names:** allow assignment of descriptive names to ports
- **ProCurve/IEEE Auto-MDIX:** automatically adjusts for straight-through or crossover cables on all 10/100/1000 ports
- **Dual flash images:** provides independent primary and secondary OS files for backup while upgrading
- **Stacking capability:** single IP address management for a virtual stack of up to 16 switches, including the ProCurve 2500 series, 2510 series, 2600 series, 2800 series, 2810 series, 2900 series, 3400cl series, 3500yl series, 4100gl series, 4200vl series, 6108, 6200yl-24G-mGBIC, and 6400cl series
- **Find-Fix-and-Inform:** finds and fixes common network problems automatically, then informs administrator
- **Troubleshooting:** ingress/egress port monitoring enables network problem-solving (ProCurve Switch 2626 and 2626-PWR only)
- **Software updates:** free downloads from the Web

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 Switch 2650

- 3-year, 4-hour onsite, 13x5 coverage for hardware (H5481E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (U6303E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (U6302E)
- 3-year, 24x7 SW phone support, software updates (UE261E)

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- Installation with minimum configuration, system-based pricing (U4826E)
- Installation with HP-provided configuration, system-based pricing (U4830E)

ProCurve Switch 2650-PWR

- 3-year, 4-hour onsite, 13x5 coverage for hardware (H4496E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (H2893E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (U6319E)
- 3-year, 24x7 SW phone support, software updates (UE264E)
- Installation with minimum configuration, system-based pricing (U4826E)
- Installation with HP-provided configuration, system-based pricing (U4830E)

ProCurve Switch 2626

- 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)
- Installation with minimum configuration, system-based pricing (U4826E)
- Installation with HP-provided configuration, system-based pricing (U4830E)

ProCurve Switch 2626-PWR

- 3-year, 4-hour onsite, 13x5 coverage for hardware (U2855E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (U2856E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (U6304E)
- 3-year, 24x7 SW phone support, software updates (UE262E)
- Installation with minimum configuration, system-based pricing (U4826E)
- Installation with HP-provided configuration, system-based pricing (U4830E)

system-based pricing (U4830E)

ProCurve Switch 2600-8-PWR with Gigabit Uplink

- 3-year, 4-hour onsite, 13x5 coverage for hardware (UD537E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (UD538E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UD539E)
- 3-year, 24x7 SW phone support, software updates (UF793E)
- Installation with minimum configuration, system-based pricing (U4826E)
- Installation with HP-provided configuration, system-based pricing (U4830E)

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**ProCurve Switch 2650
(J4899B)**

**ProCurve Switch 2650-PWR
(J8165A)**

**ProCurve Switch 2626
(J4900B)**

Specifications

	ProCurve Switch 2650 (J4899B)	ProCurve Switch 2650-PWR (J8165A)	ProCurve Switch 2626 (J4900B)
Ports			
	48 auto-sensing 10/100 ports(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 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)	48 auto-sensing 10/100 ports(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 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)	24 auto-sensing 10/100 ports(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 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)
Physical Characteristics			
Dimensions	12.8(d) x 17.32(w) x 1.75(h) in. (32.51 x 43.99 x 4.45 cm)(1U height)	18.03(d) x 17.42(w) x 1.75(h) in. (45.8 x 44.25 x 4.45 cm)(1U height)	12.8(d) x 17.32(w) x 1.73(h) in. (32.51 x 43.99 x 4.39 cm)(1U height)
Weight	9.78 lb. (4.44 kg), Fully loaded	16.31 lb. (7.4 kg), Fully loaded	9.15 lb. (4.15 kg), Fully loaded
Memory and Processor			
Processor	Motorola PowerPC MPC8245 @ 266 MHz, 8 MB flash, 32 MB SDRAM	Motorola PowerPC MPC8245 @ 266 MHz, 8 MB flash, 32 MB SDRAM	Motorola PowerPC MPC8245 @ 266 MHz, 8 MB flash, 32 MB SDRAM
Mounting			
	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only
Performance			
Latency	< 13.3 μ s (LIFO)	< 12 μ s (LIFO)	< 13.3 μ s (LIFO)
Throughput	up to 10.1 million pps	10.1 million pps	up to 6.6 million pps
Routing/Switching capacity	13.6 Gbps	13.6 Gbps	9.6 Gbps
Routing table size	8000 entries	8000 entries	8000 entries
Environment			
Operating temperature	32°F to 131°F (0°C to 55°C)	32°F to 122°F (0°C to 50°C)	32°F to 122°F (0°C to 50°C)
Operating relative humidity	15% to 95% @ 104°F (40°C), non-condensing	15% to 95% @ 104°F (40°C), non-condensing	15% 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)	-40°F to 158°F (-40°C to 70°C)
Non-operating/storage relative humidity	15% to 95% @ 149°F (65°C), non-condensing	15% to 95% @ 149°F (65°C), non-condensing	15% to 95% @ 149°F (65°C), non-condensing
Altitude	up to 15091 ft. (4.6 km)	up to 15091 ft. (4.6 km)	up to 15091 ft. (4.6 km)
Acoustic	Power: 50 db; DIN 45635T.19 per ISO 7779	Power: 53 db; DIN 45635T.19 per ISO 7779	Power: 50 db; DIN 45635T.19 per ISO 7779

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Electrical Characteristics

Max heat dissipation	341 BTU/hr(359.76 kJ/hr)	2288 BTU/hr(2413.84 kJ/hr)	341 BTU/hr(359.76 kJ/hr)
Voltage	100-120 / 200-240 VAC	100-120 / 200-240 VAC	100-120 / 200-240 VAC
Current	1.5 A	6.4 A	1.5 A
Power consumption	100 W	631 W	100 W
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz

Safety

CSA 22.2 No. 950; cUL (CSA 950); EN 60950/IEC 60950; NOM-019-SCFI-1994; UL 1950 3rd edition; UL 60950	CSA 22.2 No. 950; cUL (CSA 950); EN 60950/IEC 60950; NOM-019-SCFI-1994; UL 1950 3rd edition; UL 60950	CSA 22.2 No. 950; cUL (CSA 950); EN 60950/IEC 60950; NOM-019-SCFI-1994; UL 1950 3rd edition; UL 60950
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Emission

FCC Class A; VCCI Class A; EN55022/CISPR-22 Class A	FCC Class A; VCCI Class A; EN55022/CISPR-22 Class A	FCC Class A; VCCI Class A; EN55022/CISPR-22 Class A
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Immunity

Generic	EN55024, CISPR 24	EN55024, CISPR 24	EN55024, CISPR 24
EN	EN55024, CISPR 24	EN55024, CISPR 24	EN55024, CISPR 24
ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD	IEC 61000-4-2; 4 kV CD, 8 kV AD	IEC 61000-4-2; 4 kV CD, 8 kV AD
Radiated	IEC 61000-4-3; 3V/m	IEC 61000-4-3; 3V/m	IEC 61000-4-3; 3V/m
EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
Surge	IEC 61000-4-5; 1 kV/2 kV AC	IEC 61000-4-5; 1 kV/2 kV AC	IEC 61000-4-5; 1 kV/2 kV AC
Conducted	IEC 61000-4-6; 3V	IEC 61000-4-6; 3V	IEC 61000-4-6; 3V
Power frequency magnetic field	IEC 61000-4-8; 1A/m, 50 or 60 Hz	IEC 61000-4-8; 1A/m, 50 or 60 Hz	IEC 61000-4-8; 1A/m, 50 or 60 Hz
Voltage	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
Harmonics	EN61000-3-2, IEC61000-3-2	EN61000-3-2, IEC61000-3-2	EN61000-3-2, IEC61000-3-2
Flicker	EN61000-3-3, IEC61000-3-3	EN61000-3-3, IEC61000-3-3	EN61000-3-3, IEC61000-3-3

Management

ProCurve Manager Plus; ProCurve Manager (included); command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)	ProCurve Manager Plus; ProCurve Manager (included); command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)	ProCurve Manager Plus; ProCurve Manager (included); command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)
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Notes

Other mini-GBICs supported: J4858A ProCurve Gigabit-SX-LC Mini-GBIC J4859A ProCurve Gigabit-LX-LC Mini-GBIC J4860A ProCurve Gigabit-LH-LC Mini-GBIC	Other mini-GBICs supported: J4858A ProCurve Gigabit-SX-LC Mini-GBIC J4859A ProCurve Gigabit-LX-LC Mini-GBIC J4860A ProCurve Gigabit-LH-LC Mini-GBIC	Other mini-GBICs supported: J4858A ProCurve Gigabit-SX-LC Mini-GBIC J4859A ProCurve Gigabit-LX-LC Mini-GBIC J4860A ProCurve Gigabit-LH-LC Mini-GBIC
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Standards and Protocols

Device Management

HTML and telnet management

General Protocols

IEEE 802.1D MAC Bridges

IEEE 802.1p Priority

IEEE 802.1Q VLANs

IEEE 802.1w Rapid

Reconfiguration of Spanning Tree

IEEE 802.3ad Link Aggregation
Control Protocol (LACP)

IEEE 802.3af Power over
Ethernet

IEEE 802.3x Flow Control

RFC 768 UDP

RFC 783 TFTP Protocol (revision
2)

RFC 792 ICMP

RFC 793 TCP

RFC 826 ARP

RFC 854 TELNET

RFC 951 BOOTP

RFC 1542 BOOTP Extensions

RFC 2030 Simple Network Time
Protocol (SNTP) v4

RFC 2131 DHCP

RFC 3046 DHCP Relay Agent
Information Option

IP Multicast

RFC 3376 IGMPv3

MIBs

RFC 1213 MIB II

RFC 1493 Bridge MIB

RFC 2021 RMONv2 MIB

RFC 2096 IP Forwarding Table
MIB

RFC 2613 SMON MIB

RFC 2618 RADIUS Client MIB

RFC 2665 Ethernet-Like-MIB

RFC 2668 802.3 MAU MIB

RFC 2674 802.1p and IEEE

802.1Q Bridge MIB

RFC 2737 Entity MIB (Version 2)

RFC 2863 The Interfaces Group
MIB

Network Management

IEEE 802.1AB Link Layer
Discovery Protocol (LLDP)

RFC 3164 BSD syslog Protocol

RFC 2665 Ethernet-Like-MIB

ANSI/TIA-1057 LLDP Media

Endpoint Discovery (LLDP-MED)

SNMPv1/v2c/v3

Security

IEEE 802.1X Port Based Network
Access Control

RFC 1492 TACACS+

Secure Sockets Layer (SSL)

SSHv1/SSHv2 Secure Shell

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ProCurve Switch 2626-PWR (J8164A)



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

Specifications

Ports

24 auto-sensing 10/100 ports(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

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)

8 auto-sensing 10/100 ports(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

1 dual-personality port; 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)

Supports a maximum of 8 auto-sensing 10/100 ports

Physical Characteristics

Dimensions 18.03(d) x 17.42(w) x 1.75(h) in. (45.8 x 44.25 x 4.45 cm)(1U height)

Weight 15.01 lb. (6.81 kg), Fully loaded

8.86(d) x 17.44(w) x 1.73(h) in. (22.5 x 44.3 x 4.39 cm)(1U height)

7.5 lb. (3.4 kg)

Memory and Processor

Processor Motorola PowerPC MPC8245 @ 266 MHz, 8 MB flash, 32 MB SDRAM

Motorola PowerPC MPC8245 @ 266 MHz, 8 MB flash, 32 MB SDRAM

Mounting

Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only

Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only

Performance

Latency < 12 μ s (LIFO)

Throughput up to 6.6 million pps

Routing/Switching capacity 9.6 Gbps

Routing table size 8000 entries

< 12 μ s (LIFO)

up to 6.6 million pps

9.6 Gbps

8000 entries

Environment

Operating temperature 32°F to 122°F (0°C to 50°C)

Operating relative humidity 15% to 95% @ 104°F (40°C), non-condensing

Non-operating/storage temperature -40°F to 158°F (-40°C to 70°C)

Non-operating/storage relative humidity 15% to 95% @ 149°F (65°C), non-condensing

Altitude up to 15091 ft. (4.6 km)

Acoustic Power: 53 db; DIN 45635T.19 per ISO 7779

32°F to 122°F (0°C to 50°C)

15% to 95% @ 104°F (40°C), non-condensing

-40°F to 158°F (-40°C to 70°C)

15% to 95% @ 149°F (65°C), non-condensing

up to 15091 ft. (4.6 km)

Power: 57 db; DIN 45635T.19 per ISO 7779

Electrical Characteristics

Max heat dissipation 2288 BTU/hr(2413.84 kJ/hr)

Voltage 100-120 / 200-240 VAC

Current 6.4 A

Power consumption 631 W

649 BTU/hr(684.7 kJ/hr), including the switch and attached PoE devices; switch only: 228 BTU/hr

100-120 / 200-240 VAC

3.3 / 1.7 A

190 W

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Frequency	50 / 60 Hz	50 / 60 Hz
Safety		
	CSA 22.2 No. 950; cUL (CSA 950); EN 60950/IEC 60950; NOM-019-SCFI-1994; UL 1950 3rd edition; UL 60950	CSA 22.2 No. 950; cUL (CSA 950); EN 60950/IEC 60950; NOM-019-SCFI-1994; UL 1950 3rd edition; UL 60950
Emission		
	FCC Class A; VCCI Class A; EN55022/CISPR-22 Class A	FCC Class A; VCCI Class A; EN55022/CISPR-22 Class A
Immunity		
Generic	EN55024, CISPR 24	EN55024, CISPR 24
EN	EN55024, CISPR 24	EN55024, CISPR 24
ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD	IEC 61000-4-2; 4 kV CD, 8 kV AD
Radiated	IEC 61000-4-3; 3V/m	IEC 61000-4-3; 3V/m
EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
Surge	IEC 61000-4-5; 1 kV/2 kV AC	IEC 61000-4-5; 1 kV/2 kV AC
Conducted	IEC 61000-4-6; 3V	IEC 61000-4-6; 3V
Power frequency magnetic field	IEC 61000-4-8; 1A/m, 50 or 60 Hz	IEC 61000-4-8; 1A/m, 50 or 60 Hz
Voltage	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
Harmonics	EN61000-3-2, IEC61000-3-2	EN61000-3-2, IEC61000-3-2
Flicker	EN61000-3-3, IEC61000-3-3	EN61000-3-3, IEC61000-3-3
Management		
	ProCurve Manager Plus; ProCurve Manager (included); command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)	ProCurve Manager Plus; ProCurve Manager (included); command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)
Notes		
	Other mini-GBICs supported: J4858A ProCurve Gigabit-SX-LC Mini-GBIC J4859A ProCurve Gigabit-LX-LC Mini-GBIC J4860A ProCurve Gigabit-LH-LC Mini-GBIC	Other mini-GBICs supported: J4858A ProCurve Gigabit-SX-LC Mini-GBIC J4859A ProCurve Gigabit-LX-LC Mini-GBIC J4860A ProCurve Gigabit-LH-LC Mini-GBIC

ProCurve Switch 2600 Series

Standards and Protocols

Device Management

HTML and telnet management

General Protocols

IEEE 802.1D MAC Bridges

IEEE 802.1p Priority

IEEE 802.1Q VLANs

IEEE 802.1w Rapid

Reconfiguration of Spanning Tree

IEEE 802.3ad Link Aggregation Control Protocol (LACP)

IEEE 802.3af Power over Ethernet

IEEE 802.3x Flow Control

RFC 768 UDP

RFC 783 TFTP Protocol (revision 2)

RFC 792 ICMP

RFC 793 TCP

RFC 826 ARP

RFC 854 TELNET

RFC 951 BOOTP

RFC 1542 BOOTP Extensions

RFC 2030 Simple Network Time Protocol (SNTP) v4

RFC 2131 DHCP

RFC 3046 DHCP Relay Agent Information Option

IP Multicast

RFC 3376 IGMPv3

MIBs

RFC 1213 MIB II

RFC 1493 Bridge MIB

RFC 2021 RMONv2 MIB

RFC 2096 IP Forwarding Table MIB

RFC 2613 SMON MIB

RFC 2618 RADIUS Client MIB

RFC 2665 Ethernet-Like-MIB

RFC 2668 802.3 MAU MIB

RFC 2674 802.1p and IEEE

802.1Q Bridge MIB

RFC 2737 Entity MIB (Version 2)

RFC 2863 The Interfaces Group MIB

Network Management

IEEE 802.1AB Link Layer

Discovery Protocol (LLDP)

RFC 3164 BSD syslog Protocol

RFC 2665 Ethernet-Like-MIB

ANSI/TIA-1057 LLDP Media

Endpoint Discovery (LLDP-MED)

SNMPv1/v2c/v3

Security

IEEE 802.1X Port Based Network Access Control

RFC 1492 TACACS+

Secure Sockets Layer (SSL)

SSHv1/SSHv2 Secure Shell

ProCurve Switch 2600 Series

Accessories



ProCurve Gigabit-LH-LC Mini-GBIC (J4860B)
with one 1000Base-LH port; designed for long-distance single-mode fiber connectivity

Ports
1 LC 1000Base-LH port(no IEEE standard exists for 1550 nm optics)
Duplex: full only

Physical Characteristics
Dimensions: 2.17(d) x 0.60(w) x 0.46(h) in. (5.5 x 1.53 x 1.18 cm)
Weight: 0.04 lb. (0.02 kg)

Cabling

Type:
• Low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1

Maximum distance:
• 70 km



ProCurve Gigabit-LX-LC Mini-GBIC (J4859B)
with one 1000Base-LX port; designed for long-distance single-mode fiber connectivity, will support multimode fiber connectivity to limited distances

Ports
1 LC 1000Base-LX port(IEEE 802.3z Type 1000Base-LX)
Duplex: full only

Physical Characteristics
Dimensions: 2.24(d) x 0.54(w) x 0.486(h) in. (5.69 x 1.37 x 1.23 cm)
Weight: 0.04 lb. (0.02 kg)

Cabling

Type:
• Either single mode or multimode
• 62.5/125 μ m or 50/125 μ m

(core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively
• Low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1

Maximum distance:
• 10 km (single mode) or 550 m (multimode)



ProCurve Gigabit-SX-LC Mini-GBIC (J4858B)
with one 1000Base-SX port; designed for short-distance (

Ports
1 LC 1000Base-SX port(IEEE 802.3z Type 1000Base-SX)
Duplex: full only

Physical Characteristics
Dimensions: 2.24(d) x 0.54(w) x 0.486(h) in. (5.69 x 1.37 x 1.23 cm)
Weight: 0.04 lb. (0.02 kg)

Cabling

Type:
• 62.5/125 μ m or 50/125 μ m (core/cladding) diameter, graded-index,

low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively

Maximum distance:
• 220 m (62.5 μ m core diameter, 160 MHz/km bandwidth)
• 275 m (62.5 μ m core diameter, 200 MHz/km bandwidth)
• 500 m (50 μ m core diameter, 400 MHz/km bandwidth)
• 550 m (50 μ m core diameter, 500 MHz/km bandwidth)

ProCurve Switch 2600 Series

NEW ProCurve Manager 2.2 (-)

Windows Server-based network management for ProCurve LAN products

System requirements

For networks having 50 to 250 managed devices, ProCurve recommends the following:

Minimum hardware

2.0 GHz Intel Pentium 4 or equivalent processor
2 GB RAM memory
10 GB storage
1000 MB NIC

for PCM+ as a standalone application, assuming a dedicated server:

Recommended hardware

3.0 GHz Intel Pentium 4 or equivalent processor
3 GB RAM memory
40 GB storage
1000 MB NIC

for PCM+ assuming a dedicated server, and including Identity Driven Manager, ProCurve Mobility Manager, and Network Immunity on the same server:

Recommended software

Microsoft Windows 2000 Server, Advanced Server or Professional with SP4 or better
Microsoft Windows 2003 Server

For networks having 250 to 2,000 managed devices, ProCurve recommends the following:

Minimum hardware

3.0 GHz Intel Pentium 4 or equivalent processor
3 GB RAM memory
40 GB storage
1000 MB NIC

for PCM+ as a standalone application, assuming a dedicated server:

Recommended hardware

Intel Xeon or equivalent processor processor

4 GB RAM memory

80 GB storage

1000 MB NIC

for PCM+ assuming a dedicated server, and including Identity Driven Manager, ProCurve Mobility Manager, and Network Immunity on the same server

Recommended software

Microsoft Windows 2000 Server, Advanced Server or Professional with SP4 or better

Microsoft Windows 2003 Server

Windows XP SP2

Windows XP Professional SP2

Browsers

Microsoft Internet Explorer version 5.0 or later

Supported platforms

HP OpenView Network Node Manager version 6.41 or 7.01 or 7.5 (optional)

Additional requirements

NOTE: Network Immunity Manager when loaded on PCM+ 2.2 can sample up to 500 managed ports using sFlo

Notes

NOTE: unlimited license means that ProCurve does not impose a limit on the number of devices attached to the network as a condition of the license. Some degradation in performance may be expected the greater the number of devices attached to the netw

ProCurve Switch 2600 Series

ProCurve 600 Redundant External Power Supply (J8168A)

The ProCurve 600 Redundant and External Power Supply (RPS/EPS) has 6 RPS ports and 2 EPS ports and supplies backup and Power over Ethernet power.

Physical Characteristics

Dimensions: 12.83(d) x 17.44(w) x 1.73(h) in. (32.59 x 44.3 x 4.39 cm)(1U height)

Weight: 11.78 lb. (5.34 kg), Fully loaded

Mounting

1U rack-mountable and wall-mountable enclosure using standard mounting hardware

Environment

Operating temperature: 32°F to 131°F (0°C to 55°C)

Operating relative humidity: 15% to 95% @ 104°F (40°C), non-condensing

Non-operating/storage temperature: -40°F to 158°F (-40°C to 70°C)

Non-operating/storage relative humidity: 15% to 95% @ 149°F (65°C), non-condensing

Altitude: up to 15091 ft. (4.6 km)

Acoustic: Noise emission LwA=59.2 dB at virtual workspace, according to DIN 45635 T.19

Electrical Characteristics

Description: The unit automatically adjusts to any voltage between 100-240 V and either 50 or 60 Hz

Voltage: 100-240 VAC

Current: 9 / 5 A

Power consumption: 800 W

RPS power: 180 W

PoE power: 408 W

Frequency: 50 / 60 Hz

Safety

CSA 22.2 No. 60950

EN 60950/IEC 60950

UL 60950

Emission

FCC Class A

VCCI Class A

EN55022/CISPR-22 Class A

Immunity

EN: EN55024, CISPR 24

ESD: IEC 61000-4-2; 4 kV CD, 8 kV AD

Radiated: IEC 61000-4-3; 3V/m

EFT/Burst: IEC 61000-4-4; 1.0 kV (power line), .05 kV (signal line)

Surge: IEC 61000-4-5; 1 kV/2 kV AC

Conducted: IEC 61000-4-6; 3V

Power frequency magnetic field: IEC

61000-4-8; 1 A/m, 50 or 60 Hz

Voltage: IEC 61000-4-11; >95%

reduction, 0.5 period; 30% reduction, 25 periods

Harmonics: EN61000-3-2, IEC61000-3-2

Flicker: EN61000-3-3, IEC61000-3-3

Management

Provides information via port interfaces of attached devices

ProCurve 610 External Power Supply (J8169A)

The ProCurve 610 External Power Supply (EPS) has 4 EPS ports and provides power to connected Switch xl 10/100-TX PoE modules.

Physical Characteristics

Dimensions: 19.02(d) x 17.3(w) x 1.73(h) in. (48.31 x 43.94 x 4.39 cm)(1U height)

Weight: 16.44 lb. (7.46 kg), Fully loaded

Mounting

1U rack-mountable and wall-mountable enclosure using standard mounting hardware

Environment

Operating temperature: 32°F to 122°F (0°C to 50°C)

Operating relative humidity: 15% to 95% @ 104°F (40°C), non-condensing

Non-operating/storage temperature: -40°F to 158°F (-40°C to 70°C)

Non-operating/storage relative humidity: 15% to 95% @ 149°F (65°C), non-condensing

Altitude: up to 15091 ft. (4.6 km)

Acoustic: Noise emission LwA=58 dB at virtual workspace, according to DIN 45635 T.19

Electrical Characteristics

Description: The unit automatically adjusts to any voltage between 110-240 V and either 50 or 60 Hz

Voltage: 110-240 VAC

Current: 11 / 6 A

Power consumption: 1000 W

PoE power: 816 W

Frequency: 50 / 60 Hz

Notes: For Japan, the unit only operates at 200 V, 50 Hz, and 6 A.

Safety

CSA 22.2 No. 60950

EN 60950/IEC 60950

UL 60950

Emission

FCC Class A

VCCI Class A

EN55022/CISPR-22 Class A

Immunity

EN: EN55024, CISPR 24

ESD: IEC 61000-4-2; 4 kV CD, 8 kV AD

Radiated: IEC 61000-4-3; 3V/m

EFT/Burst: IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)

Surge: IEC 61000-4-5; 1 kV/2 kV AC

Conducted: IEC 61000-4-6; 3V

Power frequency magnetic field: IEC

61000-4-8; 1A/m, 50 or 60 Hz

Voltage: IEC 61000-4-11; >95%

reduction, 0.5 period; 30% reduction, 25 periods

Harmonics: EN61000-3-2, IEC61000-3-2

Flicker: EN61000-3-3, IEC61000-3-3

Management

Unmanaged power supply; provides information via LEDs or through port interfaces of attached devices

ProCurve Switch 2600 Series

Software

ProCurve Manager Plus 2.1 100-device limited version (J8778A)

PCM+ provides advanced device management for 100 ProCurve devices, including integration with OpenView's Network Node Manager product.

System requirements

Minimum hardware

2.0 GHz Intel Pentium or equivalent processor
512 MB RAM memory
5 GB storage

Recommended hardware

3.0 GHz Intel Pentium or equivalent processor
1 GB RAM memory
10 GB storage

Recommended software

Microsoft Windows 2000 Server (SP4 or later)
Microsoft Windows 2003 Server
Microsoft Windows XP (SP1 or greater)
Microsoft Windows XP Professional (SP1 or greater)

Browsers

Microsoft Internet Explorer version 5.0 or later

Required platforms

HP OpenView Network Node Manager version 6.0-6.2

Features

Device auto-discovery
Topology and mapping
Intuitive Explorer-style interface
Usable troubleshooting data and alerts
Device configuration and management
Customize and execute policies across groups
Enhanced network security features
Multiple device configuration management and archiving
Create and configure VLANs across the network
Traffic monitoring and analysis
Auto-configures traffic monitoring of inter-switch links
Software updates with dual flash image support
Modular design for add-in expansion
E-mail/Pager alerts
SNMP trap forwarding
Granular event data via syslog support
OpenView NNM integration

Additional requirements

Additional processing power may be necessary for extensive traffic monitoring

ProCurve Manager Plus 2.1 upgrade to unlimited license (J8779A)

PCM+ 2.1 unlimited license removes the 100 device limit on PCM+ 2.1 100 device license for companies with large device counts.

System requirements

Minimum hardware

2.0 GHz Intel Pentium or equivalent processor
512 MB RAM memory
5 GB storage

Recommended hardware

3.0 GHz Intel Pentium or equivalent processor
1 GB RAM memory
10 GB storage

Recommended software

Microsoft Windows 2003
Microsoft Windows XP
Microsoft Windows XP Professional
Microsoft Windows XP Professional (SP1 or greater)

Browsers

Microsoft Internet Explorer version 5.0 or later

Required platforms

HP OpenView Network Node Manager version 6.0-6.2

Features

Device auto-discovery
Topology and mapping
Intuitive Explorer-style interface
Usable troubleshooting data and alerts
Device configuration and management
Customize and execute policies across groups
Enhanced network security features
Multiple device configuration management and archiving
Create and configure VLANs across the network
Traffic monitoring and analysis
Auto-configures traffic monitoring of inter-switch links
Software updates with dual flash image support
Modular design for add-in expansion
E-mail/Pager alerts
SNMP trap forwarding
Granular event data via syslog support
OpenView NNM integration

Additional requirements

Additional processing power may be necessary for extensive traffic monitoring

ProCurve Switch 2600 Series

Software (continued)

ProCurve Manager Plus 2.1 100-device upgrade (J8991A)

ProCurve Manager Plus 2.1 100 device Upgrade adds new PCM+ 2.1 functionality to previously purchased PCM+ 1.6 or PCM+ 1.5 releases.

System requirements

Minimum hardware

2.0 GHz Intel Pentium or equivalent processor
512 MB RAM memory
5 GB storage

Recommended hardware

3.0 GHz Intel Pentium or equivalent processor
1 GB RAM memory
10 GB storage

Recommended software

Microsoft Windows 2003
Microsoft Windows XP
Microsoft Windows XP Professional
Microsoft Windows XP Professional (SP1 or greater)

Browsers

Microsoft Internet Explorer version 5.0 or later

Required platforms

HP OpenView Network Node Manager version 8.0.9

Features

Device auto-discovery
Topology and mapping
Intuitive Explorer-style interface
Usable troubleshooting data and alerts
Device configuration and management
Customize and execute policies across groups
Enhanced network security features
Multiple device configuration management and archiving
Create and configure VLANs across the network
Traffic monitoring and analysis
Auto-configures traffic monitoring of inter-switch links
Software updates with dual flash image support
Modular design for add-in expansion
E-mail/Pager alerts
SNMP trap forwarding
Granular event data via syslog support
OpenView NNM integration

ProCurve Manager Plus 2.1 unlimited license (J9009A)

PCM+ 2.1 unlimited license provides a PCM+ license that does not limit the number of devices managed (It does NOT require the 100 device license).

System requirements

Minimum hardware

2.0 GHz Intel Pentium or equivalent processor
512 MB RAM memory
5 GB storage

Recommended hardware

3.0 GHz Intel Pentium or equivalent processor
1 GB RAM memory
10 GB storage

Recommended software

Microsoft Windows 2003
Microsoft Windows XP
Microsoft Windows XP Professional
Microsoft Windows XP Professional (SP1 or greater)

Browsers

Microsoft Internet Explorer version 5.0 or later

Supported platforms

HP OpenView Network Node Manager version 6.41 or 7.01 or 7.5

Features

Device auto-discovery
Topology and mapping
Intuitive Explorer-style interface
Usable troubleshooting data and alerts
Device configuration and management
Customize and execute policies across groups
Enhanced network security features
Multiple device configuration management and archiving
Create and configure VLANs across the network
Traffic monitoring and analysis
Auto-configures traffic monitoring of inter-switch links
Software updates with dual flash image support
Modular design for add-in expansion
E-mail/Pager alerts
SNMP trap forwarding
Granular event data via syslog support
OpenView NNM integration

Additional requirements

Additional processing power may be necessary for extensive traffic monitoring

ProCurve Switch 2600 Series

Software (continued)

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

ProCurve Identity Driven Manager is a plug-in to ProCurve Manager Plus that dynamically applies security and performance settings based on user, device, location, time, and client system state -- 500 user license

System requirements

Please refer to ProCurve Manager Plus for system requirements

Minimum hardware

2 MB storage

Supported platforms

OpenView NNM integration

RADIUS server support

FreeRADIUS (on Red Hat ES3 or ES4 or SuSe Linux 9)

Funk Steelbelted RADIUS Server

Microsoft IAS

Features

Intuitive Explorer-style interface

OpenView NNM integration

Application of policies by user identity

- Auto VLAN assignment

- Auto set quality of service by user
- Auto set bandwidth assignment by user
- Rule-based access rights deployment
- Dynamic rights assignment based on:
 - Time
 - Location
 - User system
- Auto-discovery of:
 - RADIUS servers
 - Realms
 - Users

Notes

The base product for Identity Driven Manager allows for managing up to 500 users. Customers may add users in quantities of 2000 by purchasing J9014A.

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

Identity Driven Manager 2.0 500 user upgrade from v1.0 allows existing v1.0 customers to get the features of v2.0, with a 500-user limitation.

System requirements

Please refer to ProCurve Manager Plus for system requirements

Minimum hardware

2 MB storage

Required platforms

ProCurve Manager Plus version 2.1

Supported platforms

- Users

RADIUS server support

FreeRADIUS (on Red Hat ES3 or ES4 or SuSe Linux 9)

Funk Steelbelted RADIUS Server

Microsoft IAS

Features

Intuitive Explorer-style interface

OpenView NNM integration

Application of policies by user identity

- Auto VLAN assignment
- Auto set quality of service by user
- Auto set bandwidth assignment by user
- Rule-based access rights deployment
- Dynamic rights assignment based on:
 - Time
 - Location
 - User system
- Auto-discovery of:
 - RADIUS servers
 - Realms
 - Users

Notes

This upgrade provides Identity Driven Manager 2.0, which allows for managing up to 500 users. Customers may add users in quantities of 2000 by purchasing J9014A.

Identity Driven Manager 2.0--add 2000 users license (J9014A)

Adds support for 2000 additional users to the base Identity Driven Manager 2.0 product

System requirements

Please refer to ProCurve Manager Plus for system requirements

Minimum hardware

2 MB storage

Required platforms

ProCurve Manager Plus version 2.1

RADIUS server support

FreeRADIUS (on Red Hat ES3 or ES4 or SuSe Linux 9)

Funk Steelbelted RADIUS Server

Microsoft IAS

Features

Intuitive Explorer-style interface

OpenView NNM integration

Application of policies by user identity

- Auto VLAN assignment

- Auto set quality of service by user
- Auto set bandwidth assignment by user
Rule-based access rights deployment
Dynamic rights assignment based on:

- Time
 - Location
 - User system
- Auto-discovery of:
- RADIUS servers
 - Realms
 - Users

Notes

Pricing has not been confirmed, but it will likely have this structure, allowing customers to buy additional units of 2000 users at a time.