

ProCurve Switch 1800 Series

The ProCurve Switch 1800 series consists of two Web-managed switches. The ProCurve Switch 1800-24G is a 22-port 10/100/1000 switch with 2 dual-personality ports for RJ-45 10/100/1000 or mini-GBIC fiber Gigabit connectivity. The ProCurve Switch 1800-8G is a small form factor, 8-port 10/100/1000 switch. The ProCurve Switch 1800 series enables increased network capabilities and control vs. unmanaged switches, with support for fundamental networking protocols such as trunking, VLANs, and traffic prioritization. Both switches are managed via an intuitive Web interface. The ProCurve Switch 1800 series is ideal for businesses making the transition from unmanaged connectivity to managed networks without added cost or complexity.



ProCurve Switch 1800-8G
(J9029A)



ProCurve Switch 1800-24G
(J9028A)

ProCurve Switch 1800 Series

Features and benefits

Connectivity

- **Jumbo packet support:** supports up to 9,216 byte frame size to improve performance of large data transfers

Resiliency and high availability

- **802.3ad Link Aggregation Control Protocol (LACP):** provides link-level redundancy with support for up to 4 trunks on the ProCurve Switch 1800-8G and 12 trunks on the ProCurve Switch 1800-24G, each with up to 8 links (ports) per trunk

Layer 2 switching

- **VLAN support and tagging:** support up to 64 port-based VLANs and dynamic configuration of IEEE 802.1Q VLAN tagging, providing security between workgroups

Security

- **Management password:** provides security so that only authorized access to the Web browser interface is allowed

Quality of Service (QoS)

- **Traffic prioritization:** Honors priority of traffic based on 802.1p to deliver data to devices based on the priority and type of traffic
- **Broadcast control:** allows limitation of broadcast traffic rate to cut down on unwanted broadcast traffic on the network

Manageability

- **Intuitive Web interface:** enables simple management via an easy-to-use Web browser interface for switch configuration, monitoring, and administration
- **Integration with ProCurve Manager:** enables

discovery and mapping via ProCurve Manager, available as a free download from the Web

- **IEEE 802.1AB Link Layer Discovery Protocol (LLDP):** automated device discovery protocol for easy mapping by network management applications

Monitor and diagnostics

- **Port mirroring:** enables traffic on a port to be simultaneously sent to a network analyzer for monitoring

Ease of use

- **Comprehensive LED display with per-port indicators:** provides an at-a-glance view of status, activity, speed, and full-duplex operation
- **ProCurve/IEEE Auto-MDIX:** automatically adjusts for straight-through or crossover cables on all RJ-45 ports

Flexibility

- **Small form factor:** ideal for desktop use, and space-efficient for deployment flexibility (1800-8G)
- **Fanless design:** reduces noise and enables quiet operation, reducing distraction when deployed in open spaces (1800-8G)

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 1800-8G

- 3-year, 4-hour onsite, 13x5 coverage for hardware (UE256E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (UE257E)

ProCurve Switch 1800 Series

- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UE258E)
- 3-year, 24x7 SW phone support, software updates (UE260E)

ProCurve Switch 1800-24G

- 3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (U6321E)
- 3-year, 24x7 SW phone support, software updates (UF792E)

ProCurve Switch 1800 Series



ProCurve Switch 1800-8G (J9029A)



ProCurve Switch 1800-24G (J9028A)

Specifications

Ports

8 auto-sensing 10/100/1000 ports(IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T); Media Type: IEEE Auto-MDIX; Duplex: 10Base-T/100Base-TX: half or full; 1000Base-TX: full only

22 auto-sensing 10/100/1000 ports(IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T); Media Type: IEEE Auto-MDIX; Duplex: 10Base-T/100Base-TX: half or full; 1000Base-TX: full only

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 4.58(d) x 7.73(w) x 1.73(h) in. (11.63 x 19.63 x 4.39 cm)(1U height)

6.74(d) x 17.42(w) x 1.73(h) in. (17.12 x 44.25 x 4.39 cm)(1U height)

Weight 1.19 lb. (0.54 kg)

4.32 lb. (1.96 kg)

Memory and Processor

1 MB flash, 64 KB SDRAM, 1 KB RAM/ROM capacity; packet buffer size: 144 KB

2 MB flash, 64 KB SDRAM, 2 KB RAM/ROM capacity; packet buffer size: 500 KB

Mounting

Horizontal surface mounting only

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

Performance

100 Mb < 3.9 μ s (64-byte packets)

< 4.7 μ s (64-byte packets)

1000 Mb < 2.1 μ s (64-byte packets)

< 3.0 μ s (64-byte packets)

Throughput up to 11.9 million pps (64-byte packets)

up to 35.7 million pps (64-byte packets)

Switching capacity 16 Gbps

48 Gbps

MAC address table size 8000 entries

8000 entries

Environment

Operating temperature 23°F to 104°F (-5°C to 40°C)

27°F to 104°F (-2.8°C to 40°C)

Operating relative humidity 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 159°F (-40°C to 70.6°C)

-40°F to 159°F (-40°C to 70.6°C)

Non-operating/storage relative humidity 0% to 90% @ 149°F (65°C), non-condensing

0% to 90% @ 149°F (65°C), non-condensing

Altitude up to 10000 ft. (3 km)

up to 10000 ft. (3 km)

Acoustic Power: 0 db No Fan

Power: 36 db

Electrical Characteristics

Max heat dissipation 61 BTU/hr(64.36 kJ/hr)

205 BTU/hr(216.28 kJ/hr)

Voltage 100-127 / 200-240 VAC

100-240 VAC

Current 1.0 / 0.8 A

1.2 / 0.6 A

Power consumption 18 W

24 W

Frequency 50 / 60 Hz

50 / 60 Hz

ProCurve Switch 1800 Series

Notes The exact input voltage and frequency rating are determined by the specific power adapter part number ordered. Please select the correct power adapter country option.

Safety

CSA 22.2 No. 60950; EN 60950/IEC 60950; UL 60950

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Emission

FCC Rules Part 15, Subpart B Class A; EN55022; VCCI; ICES-003 (Canada)

FCC Rules Part 15, Subpart B Class A; EN55022; VCCI; ICES-003 (Canada)

Immunity

EN	EN55024	EN55024
ESD	EN61000-4-2	EN61000-4-2
Radiated	EN61000-4-3	EN61000-4-3
EFT/Burst	EN61000-4-4	EN61000-4-4
Surge	EN61000-4-5	EN61000-4-5
Conducted	EN61000-4-6	EN61000-4-6
Power frequency magnetic field	EN61000-4-8	EN61000-4-8
Voltage	EN61000-4-11	EN61000-4-11
Harmonics	EN61000-3-2	EN61000-3-2
Flicker	EN61000-3-3	EN61000-3-3

Management

ProCurve Manager; Web browser

ProCurve Manager; Web browser

Notes

Use only supported genuine ProCurve mini-GBICs with your switch.

Standards and Protocols

General Protocols

IEEE 802.1p Priority
 IEEE 802.1Q VLANs
 IEEE 802.3ad Link Aggregation

Control Protocol (LACP)
 IEEE 802.3x Flow Control

Network Management

IEEE 802.1AB Link Layer
 Discovery Protocol (LLDP)

ProCurve Switch 1800 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 1800 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

Software

ProCurve Switch 1800 Series

Software (continued)

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

HP OpenView 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
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Additional requirements

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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
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Device configuration and management
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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

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Topology and mapping
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