

ProCurve Switch 1800 Series

The ProCurve Switch 1800 series consists of two Gigabit, fanless, Web-Managed switches that are ideal for deployment in open offices that require silent operation. 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 and VLANs. 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
(J9028B)

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

- **IEEE 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 10/100/1000 ports

Flexibility

- **Small form factor:** ideal for desktop use; space-efficient for deployment flexibility (1800-8G only)
- **Designed with no fan:** enables quiet operation for deployment in open spaces

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)
- 3-year, 4-hour onsite, 24x7 coverage for

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hardware, 24x7 software phone support
(UE258E)

- 3-year, 24x7 SW phone support, software updates (UE260E)

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- 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)

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ProCurve Switch 1800-8G (J9029A)



ProCurve Switch 1800-24G (J9028B)

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: Auto-MDIX; Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: 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: Auto-MDIX; Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: 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)

Weight 1.19 lb. (0.54 kg), Fully loaded

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

4.32 lb. (1.96 kg), Fully loaded

Memory and processor

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

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

Mounting

Horizontal surface mounting only

Mounts in an EIA-standard 19 in. telco racks (hardware included)

Performance

100 Mb Latency < 3.9 μ s (64-byte packets)

1000 Mb Latency < 2.1 μ s (64-byte packets)

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

Switching capacity 16 Gbps

MAC address table size 8000 entries

< 4.7 μ s (64-byte packets)

< 3.0 μ s (64-byte packets)

up to 35.7 million pps (64-byte packets)

48 Gbps

8000 entries

Environment

Operating temperature 32°F to 104°F (0°C to 40°C)

Operating relative humidity 10% to 90% @ 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 10% to 90% @ 149°F (65°C), non-condensing

Altitude up to 10000 ft. (3 km)

Acoustic Power: 0 dB no fan

32°F to 104°F (0°C to 40°C)

10% to 90% @ 104°F (40°C), non-condensing

-40°F to 158°F (-40°C to 70°C)

10% to 90% @ 149°F (65°C), non-condensing

up to 10000 ft. (3 km)

Power: 0 dB no fan

Electrical characteristics

Maximum heat dissipation 61 BTU/hr (64 kJ/hr)

Voltage 100-240 VAC

Current 0.5 A

Power consumption 18 W

Frequency 60 Hz

92 BTU/hr (97 kJ/hr)

100-127 / 200-240 VAC

0.8 / 0.4 A

27 W

50 / 60 Hz

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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	CSA 22.2 No. 60950; EN 60950/IEC 60950; UL 60950	
Emissions	FCC Rules Part 15, Subpart B Class A; EN 55022; VCCI; ICES-003 (Canada)	FCC Rules Part 15, Subpart B Class A; EN 55022; VCCI; ICES-003 (Canada)	
Immunity	EN 55024, CISPR 24	EN 55024, CISPR 24	
EN	EN 61000-4-2	EN 61000-4-2	
ESD	EN 61000-4-3	EN 61000-4-3	
Radiated	EN 61000-4-4	EN 61000-4-4	
EFT/Burst	EN 61000-4-5	EN 61000-4-5	
Surge	EN 61000-4-6	EN 61000-4-6	
Conducted	EN 61000-4-8	EN 61000-4-8	
Power frequency magnetic field	EN 61000-4-11	EN 61000-4-11	
Voltage dips and interruptions	EN 61000-3-2	EN 61000-3-2	
Harmonics	EN 61000-3-3	EN 61000-3-3	
Flicker			
Management	ProCurve Manager; Web browser	ProCurve Manager; Web browser	
Notes	Use only supported genuine ProCurve mini-GBICs with your switch.	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 RFC 1534 DHCP/BOOTP Interoperation	Network Management IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

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Accessories



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

A small form factor pluggable (SFP) Gigabit SX transceiver that provides a full-duplex Gigabit solution up to 550 m on multimode fiber.

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 Gigabit-LX-LC Mini-GBIC (J4859C)

A small form factor pluggable (SFP) Gigabit LX transceiver that provides a full-duplex Gigabit solution up to 10 km (singlemode) or 550 m (multimode).

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)

Notes

A mode conditioning patch cord may be needed in some multimode fiber installations.



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

A small form factor pluggable (SFP) Gigabit LH transceiver that provides a full-duplex Gigabit solution up to 70 km on singlemode fiber.

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 Manager 2.3 (-)

Windows Server-based network management for ProCurve LAN products

System requirements

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

Minimum system 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 system 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 ProCurve Identity Driven Manager, Mobility Manager, and Network Immunity Manager on the same server

Recommended software

Microsoft Windows 2003 Server
Windows XP SP2
Windows XP Professional SP2

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

Minimum system 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 system hardware

Intel Xeon or equivalent processor
4 GB RAM memory
80 GB storage
1000 MB NIC
for PCM+ assuming a dedicated server, and including ProCurve Identity Driven Manager, Mobility Manager, and Network Immunity Manager on the same server

Recommended software

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: ProCurve Network Immunity Manager when loaded on PCM+ 2.3 can sample up to 500 managed ports using sFlow or XRMON.

Notes

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 network.

Specifications subject to change