

ProCurve Switch 1700 Series

The ProCurve Switch 1700 series consists of two 10/100, fanless, Web-Managed switches that are ideal for open offices that require silent operation or businesses making the transition from unmanaged to managed networks. The ProCurve Switch 1700-24 is a 24-port switch with 22 10/100 ports plus 2 dual-personality ports. The ProCurve Switch 1700-8 is a small-form-factor switch with 7 10/100 ports and 1 10/100/1000 port. The ProCurve Switch 1700 series enables increased network capabilities without added complexity.



ProCurve Switch 1700-24
(J9080A)



ProCurve Switch 1700-8
(J9079A)

ProCurve Switch 1700 Series

Features and benefits

Resiliency and high availability

- **IEEE 802.3ad Link Aggregation Control Protocol (LACP):** provides link-level redundancy; support for up to 4 trunks, with up to 7 links (ports) per trunk on the Switch 1700-8, and support for 12 trunks, with up to 8 links (ports) per trunk on the Switch 1700-24

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)

- **IEEE 802.1p prioritization:** delivers data to devices by honoring 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 (1700-8 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)

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ProCurve Switch 1700-24 (J9080A)



ProCurve Switch 1700-8 (J9079A)

Specifications

Ports

22 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

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)

7 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 auto-sensing 10/100/1000 port (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-T: full only

Physical characteristics

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

Weight 4.38 lb. (1.99 kg)

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

1.19 lb. (0.54 kg)

Memory and processor

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

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

Mounting

Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)

Horizontal surface mounting only

Performance

Gbps

100 Mb Latency < 4.7 μ s (64-byte packets)

1000 Mb Latency < 3.0 μ s (64-byte packets)

Throughput up to 6.2 million pps (64-byte packets)

Switching capacity 8.4 Gbps

MAC address table size 8000 entries

Gbps

< 3.9 μ s (64-byte packets)

< 2.1 μ s (64-byte packets)

up to 2.0 million pps (64-byte packets)

3.4 Gbps

8000 entries

Environment

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

15% to 95% @ 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 82 BTU/hr (87 kJ/hr)

Voltage 100-127 / 200-240 VAC

61 BTU/hr (64 kJ/hr)

100-127 / 200-240 VAC

ProCurve Switch 1700 Series

Current	0.75 / 0.4 A	1.0 / 0.8 A
Power consumption	24 W	18 W
Frequency	50 / 60 Hz	50 / 60 Hz
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
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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)
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Immunity

EN	EN 55024, CISPR 24	EN 55024, CISPR 24
ESD	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-6	IEC 61000-4-6
Power frequency magnetic field	IEC 61000-4-8	IEC 61000-4-8
Voltage dips and interruptions	IEC 61000-4-11	IEC 61000-4-11
Harmonics	IEC 61000-3-2	IEC 61000-3-2
Flicker	IEC 61000-3-3	IEC 61000-3-3

Management

ProCurve Manager; Web browser	ProCurve Manager; Web browser
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Notes

Use only supported genuine ProCurve mini-GBICs with your switch.	Use only supported genuine ProCurve mini-GBICs with your switch.
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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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ProCurve Switch 1700 Series

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 meters 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 μm or 50/125 μm (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 μm core diameter, 160 MHz/km bandwidth)
• 275 m (62.5 μm core diameter, 200 MHz/km bandwidth)
• 500 m (50 μm core diameter, 400 MHz/km bandwidth)
• 550 m (50 μm 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 μm or 50/125 μm (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 2.2 (-)

Windows Server-based network management for ProCurve LAN products

System requirements

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

Minimum 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 2000 Server, Advanced Server or Professional with SP4 or better
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 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 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

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