

ProCurve Switch 1700 Series

The ProCurve Switch 1700 series complements the ProCurve Switch 1800 series as the newest addition to the ProCurve Web-managed portfolio. Ideal for businesses making the transition from unmanaged to managed networks, the ProCurve Switch 1700 series consists of two switches. The ProCurve Switch 1700-24 is a 24-port switch with 22 10/100 ports plus 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. Ideal for deployment in open spaces, both switches feature silent operation via a fanless design. 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 on the ProCurve Switch 1700-8, with up to 8 links (ports) per trunk, and support for 12 trunks on the ProCurve Switch 1700-24, with up to 7 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)

- **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 RJ-45 ports

Flexibility

- **Small form factor:** ideal for desktop use; space-efficient for deployment flexibility (1700-8)
- **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)

ProCurve Switch 1700 Series



ProCurve Switch 1700-24 (J9080A)



ProCurve Switch 1700-8 (J9079A)

Specifications

Ports

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

2 dual-personality; 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(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(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

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 KB RAM/ROM capacity; packet buffer size: 500 KB

1 MB flash, 1 KB 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

100 Mb < 4.7 μ s (64-byte packets)

1000 Mb < 3.0 μ s (64-byte packets)

Switching capacity 8.4 Gbps

MAC address table size 8000 entries

< 3.9 μ s (64-byte packets)

< 2.1 μ s (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

Max heat dissipation 82 BTU/hr(86.51 kJ/hr)

Voltage 100-127 / 200-240 VAC

Current 0.75 / 0.4 A

Power consumption 24 W

61 BTU/hr(64.35 kJ/hr)

100-127 / 200-240 VAC

1.0 / 0.8 A

18 W

ProCurve Switch 1700 Series

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
---------------	--------------------------------------------------	--------------------------------------------------

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, CISPR 24	EN55024, 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	IEC 61000-4-11	IEC 61000-4-11
Harmonics	IEC61000-3-2	IEC61000-3-2
Flicker	IEC61000-3-3	IEC61000-3-3

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 1700 Series

Accessories



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

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

Ports
1 LC 1000Base-LH(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 2.1 (-)
Windows-based network management for ProCurve switches

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

Features
Device auto-discovery
Topology and mapping
Intuitive Explorer-style interface
Usable troubleshooting data and alerts
Device configuration and management
E-mail/Pager alerts

ProCurve Switch 1700 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

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
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 1700 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

© 2007 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

4/6/2007
To learn more, visit www.procurve.com
Information is subject to change without notice

