

## 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 Web-Managed switches. 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. 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, 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 RJ-45 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 Series



**ProCurve Switch 1700-24 (J9080A)**



**ProCurve Switch 1700-8 (J9079A)**

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## Specifications

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### 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-TX: full only

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### 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)

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### 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

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### Mounting

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

Horizontal surface mounting only

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### Performance

100 Mb < 4.7  $\mu$ s (64-byte packets)

1000 Mb < 3.0  $\mu$ 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

< 3.9  $\mu$ s (64-byte packets)

< 2.1  $\mu$ s (64-byte packets)

up to 2.0 million pps (64-byte packets)

3.4 Gbps

8000 entries

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### 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

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### Electrical Characteristics

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

Voltage 100-127 / 200-240 VAC

Current 0.75 / 0.4 A

61 BTU/hr(64.35 kJ/hr)

100-127 / 200-240 VAC

1.0 / 0.8 A

# ProCurve Switch 1700 Series

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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## 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)
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## 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
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## 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

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**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  $\mu\text{m}$  or 50/125  $\mu\text{m}$  (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  $\mu\text{m}$  core diameter, 160 MHz/km bandwidth)  
• 275 m (62.5  $\mu\text{m}$  core diameter, 200 MHz/km bandwidth)  
• 500 m (50  $\mu\text{m}$  core diameter, 400 MHz/km bandwidth)  
• 550 m (50  $\mu\text{m}$  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 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  $\mu\text{m}$  or 50/125  $\mu\text{m}$

(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 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 Switch 1700 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

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

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**

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.

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Software

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# ProCurve Switch 1700 Series

Software (continued)

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## **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

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## **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

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# ProCurve Switch 1700 Series

Software (continued)

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## **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

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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**

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  
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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

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