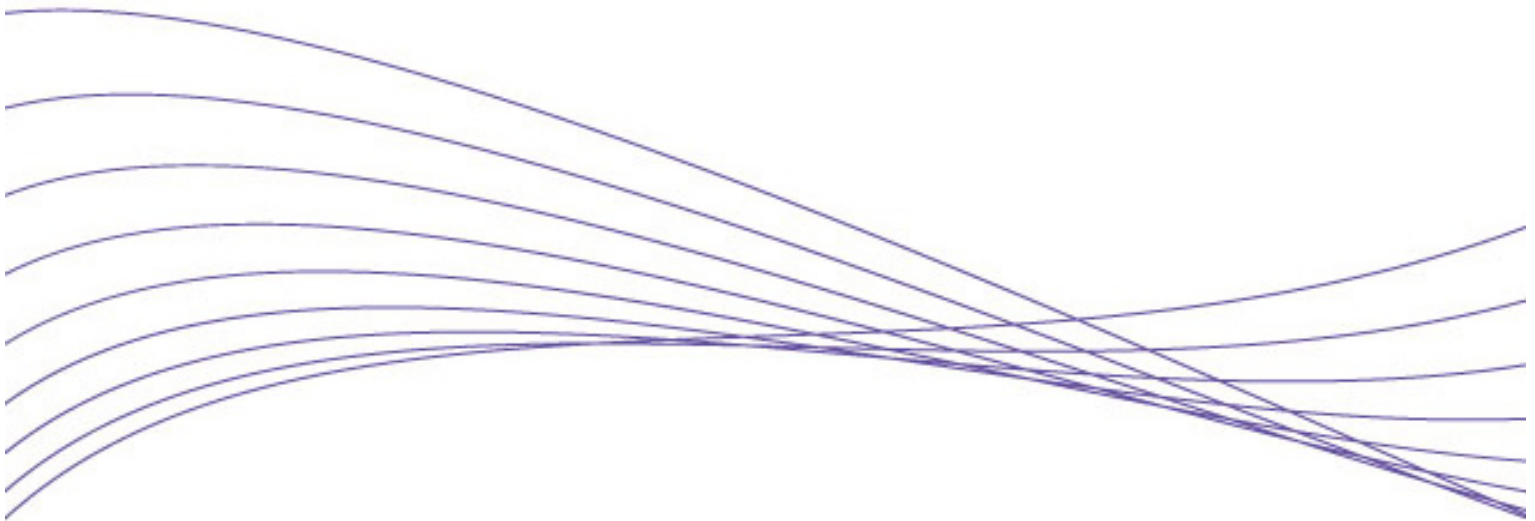


## ProCurve Switch 6200yl-24G-mGBIC

The ProCurve Switch 6200yl-24G-mGBIC is an advanced Layer 3 stackable in 1U height. It has 24 mini-GBIC slots and an expansion slot for an optional 4-port 10-GbE module. Designed to be deployed as an aggregator of traffic from the edge to the core of the network, this switch supports a variety of Gigabit mini-GBICs, such as SX, LX, LH, and 1000Base-T. The foundation for this switch is a purpose-built ProVision ASIC that allows the most demanding networking features, such as QoS and security, to be implemented in a scalable yet granular fashion. With its high-performance architecture, 10-GbE capability, and programmable ASIC, this switch offers excellent investment protection, flexibility, and scalability.



ProCurve Switch  
6200yl-24G-mGBIC (J8992A)



# ProCurve Switch 6200yl-24G-mGBIC

## Features and benefits

### Management

**NEW Remote intelligent mirroring:** mirrors ingress/egress ACL-selected traffic from a switch port or VLAN to a local or remote 5400/3500 switch port anywhere on the network

- **RMON, XRMON, and sFlow:** provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events

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

**NEW Command authorization:** leverages RADIUS to link a custom list of CLI commands to individual network administrator's login; also provides an audit trail

- **Friendly port names:** allow assignment of descriptive names to ports

- **Dual flash images:** provide independent primary and secondary OS and configuration files for backup while upgrading or fine-tuning the switch configuration

- **Multiple configuration files:** multiple config files can be stored to flash image

**NEW USB support:**

- **File copy:** allows users to copy switch files to/from an USB flash drive

**NEW Uni-Directional Link Detection (UDLD):** monitors a link between two switches and blocks the ports on both ends of the link if the link goes down at any point between the two devices

### Connectivity

- **Jumbo frames:** on Gigabit and 10-Gigabit ports, allow high-performance remote backup and disaster-recovery services

- **IPv6 ready:** switch hardware is capable of

supporting IPv6 host, routing, and filtering with the ProVision ASIC; IPv6 operation and deployment will be available when enabled via a software update at a later date.

### Performance

- **Architecture:** 115 Gbps backplane speed with up to 36 million pps throughput on purpose-built ProVision ASIC

**NEW Selectable queue configurations:** increase performance by selecting the number of queues and associated memory buffering that best meet the requirements of your network applications.

### Resiliency and high availability

- **Router redundancy:** VRRP allows groups of two routers to dynamically back each other up to create highly available routed environments

- **IEEE 802.1s Multiple Spanning Tree Protocol:** provides high link availability in multiple VLAN environments by allowing multiple spanning trees; encompasses IEEE 802.1D Spanning Tree Protocol and IEEE 802.1w Rapid Spanning Tree Protocol

- **IEEE 802.3ad Link Aggregation Control Protocol (LACP) and ProCurve trunking:** support up to 36 trunks, each with up to 8 links (ports) per trunk; trunking across modules is supported

### Layer 2 switching

- **ProCurve switch meshing:** dynamically load-balances across multiple active redundant links to increase available aggregate bandwidth

- **VLAN support and tagging:** supports complete IEEE 802.1Q standard and 2,048 VLANs simultaneously

- **IEEE 802.1v protocol VLANs:** isolate select non-IPv4 protocols automatically into their own VLANs

- **GARP VLAN Registration Protocol:** allows

# ProCurve Switch 6200yl-24G-mGBIC

automatic learning and dynamic assignment of VLANs

## Layer 3 services

- **UDP helper function:** UDP broadcasts can be directed across router interfaces to specific IP unicast or subnet broadcast addresses and prevent server spoofing for UDP services such as DHCP

**NEW Loopback interface address:** defines an address in RIP and OSPF that can always be reachable, improving diagnostic capability

## Layer 3 routing

- **Layer 3 IP routing:**
  - **Static IP routing:** provides basic routing
  - **RIP:** provides RIPv1 and RIPv2 routing at media speed
  - **OSPF:** includes ECMP to provide link redundancy/scalable bandwidth and NSSA

## Security

- **Switch CPU protection:** provides automatic protection against malicious network traffic trying to shut down the switch
- **Virus throttle:** detects traffic patterns typical of WORM-type viruses and either throttles or entirely prevents the ability of the virus to spread across the routed VLANs or bridged interfaces, without requiring external appliances
- **ICMP throttling:** defeats ICMP denial-of-service attacks by enabling any switch port to automatically throttle ICMP traffic
- **Multiple user authentication methods:**
  - **IEEE 802.1X:** industry-standard way of user authentication using an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server
  - **Web-based authentication:** similar to IEEE 802.1X, provides a browser-based environment to authenticate clients that do not support the

IEEE 802.1X supplicant

- **MAC-based authentication:** client is authenticated with the RADIUS server based on the MAC address of the client

## • Authentication flexibility:

- **Multiple IEEE 802.1X users per port:** provides authentication of multiple IEEE 802.1X users per port; prevents user "piggybacking" on another user's IEEE 802.1X authentication
- **Concurrent IEEE 802.1X and Web or MAC authentication schemes per port:** switch port will accept any of IEEE 802.1X and either Web or MAC authentications

- **Access Control Lists (ACLs):** provide filtering based on the IP field, source/destination IP address/subnet, and source/destination TCP/UDP port number on a per-VLAN or per-port basis

- **Identity-driven ACL:** enables implementation of a highly granular and flexible access security policy specific to each authenticated network user

**NEW DHCP protection:** blocks DHCP packets from unauthorized DHCP servers, preventing denial-of-service attacks

**NEW BPDU port protection:** blocks Bridge Protocol Data Units (BPDU) on ports that do not require BPDUs, preventing forged BPDU attacks

**NEW Dynamic IP lockdown:** works with DHCP protection to block traffic from unauthorized host, preventing IP source address spoofing

**NEW Dynamic ARP protection:** blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or data thief of network data

**NEW Detection of malicious attacks:** monitors 10 types of network traffic and sends a warning when an anomaly that potentially may be caused by malicious attacks is detected

- **Port security:** allows access only to specified MAC addresses, which can be learned or specified by the administrator

# ProCurve Switch 6200yl-24G-mGBIC

- **MAC address lockout:** prevents configured particular MAC addresses from connecting to the network
- **Source-port filtering:** allows only specified ports to communicate with each other
- **TACACS+:** eases switch management security administration by using a password authentication server
- **Secure Shell (SSHv2):** encrypts all transmitted data for secure, remote command-line interface (CLI) access over IP networks
- **Secure Sockets Layer (SSL):** encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch
- **Secure FTP:** allows secure file transfer to/from the switch; protects against unwanted file downloads or unauthorized copying of switch configuration file
- **Secure management access:** all access methods--CLI, GUI, or MIB--are securely encrypted through SSHv2, SSL, and/or SNMPv3
- **Switch management logon security:** can require either RADIUS or TACACS+ authentication for secure switch CLI logon
- **Security banner:** displays customized security policy when users log in to the switch

## Convergence

- **IP multicast routing:** includes PIM Sparse and Dense modes to route IP multicast traffic
- **IP multicast snooping (data-driven IGMP):** automatically prevents flooding of IP multicast traffic
- **LLDP-MED (Media Endpoint Discovery):** a standard extension of LLDP that stores values for parameters such as QoS and VLAN to automatically configure network devices such as IP phones

- **iSCSI support:** enables the deployment of Ethernet storage area network solutions using the iSCSI standard

## Quality of Service (QoS)

- **Layer 4 prioritization:** enables prioritization based on TCP/UDP port numbers
- **Traffic prioritization:** allows real-time traffic classification into 8 priority levels mapped to 8 queues
- **Bandwidth shaping:**
  - **Rate limiting:** per-port ingress/egress enforced maximum bandwidth
  - **Guaranteed minimum:** per-port, per-queue egress-based guaranteed minimum bandwidth
- **Class of Service (CoS):** sets the IEEE 802.1p priority tag based on IP address, IP Type of Service (ToS), L3 protocol, TCP/UDP port number, source port, and DiffServ

## Industry-leading warranty

- **Lifetime warranty :** for as long as you own the product, with next-business-day advance replacement (available in most countries)

## Services

- 3-year, 4-hour onsite, 13x5 coverage for hardware (U2855E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (U2856E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (U6304E)
- 3-year, 24x7 SW phone support, software updates (UE262E)
- Installation with minimum configuration, system-based pricing (U4826E)
- Installation with HP-provided configuration, system-based pricing (U4830E)

# ProCurve Switch 6200yl-24G-mGBIC



ProCurve Switch 6200yl-24G-mGBIC  
J8992A

---

## Specifications

---

### Ports

24 open mini-GBIC (SFP) slots  
Supports a maximum of 4 10-GbE ports, with optional module

---

### Physical Characteristics

Dimensions 15.43(d) x 17.44(w) x 1.73(h) in. (39.2 x 44.3 x 4.4 cm)(1U height)  
Weight 14.11 lb. (6.4 kg)

---

### Memory and Processor

Processor Freescale PowerPC 8540 @ 666 MHz, 4 MB flash, 256 MB SDRAM

---

### Mounting

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

---

### Performance

1000 Mb < 3.7  $\mu$ s (FIFO 64-byte packets)  
10 Gbps < 2.1  $\mu$ s (FIFO 64-byte packets)  
Throughput up to 74 million pps  
Routing/Switching capacity 101 Gbps  
Switching capacity 115 Gbps  
Routing table size 10000 entries

---

### Environment

Operating temperature 32°F to 131°F (0°C to 55°C); 32°F to 104°F (40°C) when used with any X2 10-GbE  
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 15% to 95% @ 149°F (65°C), non-condensing  
Altitude up to 15091 ft. (4.6 km)  
Acoustic Power: 55.1 db; DIN 45635T.19 per ISO 7779

---

### Electrical Characteristics

Description The switch automatically adjusts to any voltage between 100-127 and 200-240 volts and either 50 or 60 Hz  
Max heat dissipation 829 BTU/hr  
Voltage 100-127 / 200-240 VAC  
Current 4.0 / 2.0 A  
Power consumption 243 W  
Frequency 50 / 60 Hz

---

### Safety

CSA 22.2 No. 60950; UL 60950; IEC60950; EN60950

---

### Emission

FCC Class A; VCCI Class A; EN55022/CISPR-22 Class A

---

### Immunity

EN EN55024, CISPR 24  
ESD IEC 61000-4-2; 4 kV CD, 8 kV AD

# ProCurve Switch 6200yl-24G-mGBIC

Radiated	IEC 61000-4-3; 3V/m
EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
Surge	IEC 61000-4-5; 1 kV/2 kV AC
Conducted	IEC 61000-4-6; 3V
Power frequency magnetic field	IEC 61000-4-8; 1A/m, 50 or 60 Hz
Voltage	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
Harmonics	EN61000-3-2, IEC61000-3-2
Flicker	EN61000-3-3, IEC61000-3-3

## Management

ProCurve Manager Plus; ProCurve Manager (included); command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)

## Notes

When using mini-GBICs with this product, mini-GBICs with revision "B" product number ends with the letter "B", e.g. J4858B, J4859B) or later are required.

## Standards and Protocols

### Device Management

HTML and telnet management

### General Protocols

IEEE 802.1D MAC Bridges  
 IEEE 802.1p Priority  
 IEEE 802.1Q VLANs  
 IEEE 802.1s Multiple Spanning Trees  
 IEEE 802.1w Rapid Reconfiguration of Spanning Tree  
 IEEE 802.3ad Link Aggregation Control Protocol (LACP)  
 IEEE 802.3x Flow Control  
 RFC 768 UDP  
 RFC 783 TFTP Protocol (revision 2)  
 RFC 792 ICMP  
 RFC 793 TCP  
 RFC 826 ARP  
 RFC 854 TELNET  
 RFC 951 BOOTP  
 RFC 1058 RIP v1  
 RFC 1542 BOOTP Extensions  
 RFC 2030 Simple Network Time Protocol (SNTP) v4  
 RFC 2131 DHCP  
 RFC 2453 IPv6  
 RFC 3046 DHCP Relay Agent

### Information Option

### IP Multicast

RFC 2362 PIM Sparse Mode  
 RFC 3376 IGMPv3  
 RFC 3973 PIM Dense Mode

### MIBs

RFC 1213 MIB II  
 RFC 1493 Bridge MIB  
 RFC 1724 IPv6 MIB  
 RFC 1850 OSPF v2 MIB  
 RFC 2021 RMONv2 MIB  
 RFC 2096 IP Forwarding Table MIB  
 RFC 2613 SMON MIB  
 RFC 2618 RADIUS Client MIB  
 RFC 2620 RADIUS Accounting MIB  
 RFC 2665 Ethernet-Like-MIB  
 RFC 2668 802.3 MAU MIB  
 RFC 2674 802.1p and IEEE 802.1Q Bridge MIB  
 RFC 2737 Entity MIB (Version 2)  
 RFC 2863 The Interfaces Group MIB

### Network Management

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)  
 RFC 1724 IPv6 MIB  
 RFC 3176 sFlow  
 ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)  
 SNMPv1/v2c/v3  
 XRMON

### OSPF

RFC 2328 OSPFv2

### QoS/Cos

RFC 2474 DiffServ Precedence, including 8 queues/port  
 RFC 2597 DiffServ Assured Forwarding (AF)  
 RFC 2598 DiffServ Expedited Forwarding (EF)

### Security

IEEE 802.1X Port Based Network Access Control  
 RFC 1492 TACACS+  
 RFC 2138 RADIUS Authentication Secure Sockets Layer (SSL)  
 SSHv1/SSHv2 Secure Shell  
 RFC 2866 RADIUS Accounting

# ProCurve Switch 6200yl-24G-mGBIC

## Accessories

---



**ProCurve 10-GbE X2-SC SR Optic (J8436A)**  
Transceiver that supports 10G SR fiber standard; supports standard 50  $\mu$  and 62.5  $\mu$  mmf up to 300 m

**Ports**  
1 SC 10-GbE port(IEEE 802.3ae Type 10Gbase-SR)  
Duplex: full only

**Physical Characteristics**  
Dimensions: 3.48(d) x 1.42(w) x .43(h) in. (8.84 x 3.61 x 1.09 cm)  
Weight: 0.64 lb. (0.29 kg)

**Environment**  
Operating temperature: 32°F to 104°F (0°C to 40°C)  
Operating relative humidity: 15% to 95%, non-condensing

**Cabling**  
Maximum distance:

- 62.5  $\mu$ m multimode cable @ 160 MHz/km = 2-26 meters
- 62.5  $\mu$ m multimode cable @ 200 MHz/km = 2-33 meters
- 50  $\mu$ m multimode cable @ 400 MHz/km = 2-66 meters
- 50  $\mu$ m multimode cable @ 500 MHz/km = 2-82 meters
- 50  $\mu$ m multimode cable @ 2000 MHz/km = 2-300 meters

**Notes**  
62.5  $\mu$ m (core/cladding) diameter or 50  $\mu$ m, 850 nm, low metal content, multimode fiber-optic, complying with the ITU-T G.652 and ISO/IEC 793-2 Type B1 standards



**ProCurve 10-GbE X2-SC LR Optic (J8437A)**  
10-Gigabit X2 transceiver that supports LR distance of 10 km with SC connector

**Ports**  
1 SC 10-GbE port(IEEE 802.3ae Type 10Gbase-LR)  
Duplex: full only

**Physical Characteristics**  
Dimensions: 3.48(d) x 1.42(w) x 0.43(h) in. (8.84 x 3.61 x 1.09 cm)  
Weight: 0.16 lb. (0.07 kg)

**Environment**  
Operating temperature: 32°F to 104°F (0°C to 40°C)  
Operating relative humidity: 15% to 95%, non-condensing

**Cabling**

Type:  
• Low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1

Maximum distance:  
• 9/125  $\mu$ m single-mode cable = 2 m-10 km

**Notes**  
Conditioning patch cord cables are not supported.



**ProCurve 10-GbE X2-SC ER Optic (J8438A)**  
Supports the 10G ER standard. Supports single-mode fiber up to 40 km.\*

**Ports**  
1 SC 10-GbE port(IEEE 802.3ae Type 10Gbase-ER)  
Duplex: full only

**Physical Characteristics**  
Dimensions: 3.48(d) x 1.42(w) x .43(h) in. (8.84 x 3.61 x 1.09 cm)  
Weight: 0.15 lb. (0.07 kg)

**Environment**  
Operating temperature: 32°F to 104°F (0°C to 40°C)  
Operating relative humidity: 15% to 95%, non-condensing

**Cabling**

Type:  
• Low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1

Maximum distance:  
• 30 km\*

**Notes**  
Conditioning patch cord cables are not supported.

\* Maximum distance 40 km using engineered link.

# ProCurve Switch 6200yl-24G-mGBIC

## ProCurve 10-GbE CX4 Media Converter (J8439A)

Optical media converter for CX4 (10G copper) mmf cable up to 300 m

### Physical Characteristics

Dimensions: 0(d) x 0(w) x 0(h) in. ( x x cm)

### Cabling

Maximum distance:

- 62.5  $\mu$ m multimode cable @ 150 MHz/km = 1-50 meters
- 50  $\mu$ m multimode cable @ 500 MHz/km = 1-100 meters
- 50  $\mu$ m multimode cable @ 2000 MHz/km = 1-300 meters



## NEW ProCurve Switch 10-GbE X2-CX4 Transceiver (J8440B)

10-Gigabit X2 transceiver that supports a CX4 connector with distance of 15 m

### Physical Characteristics

Dimensions: 3.54(d) x 1.42(w) x 0.53(h) in. (8.99 x 3.61 x 1.35 cm)  
Weight: 0.18 lb. (0.08 kg)

### Environment

Operating temperature: 32°F to 131°F (0°C to 55°C)  
Operating relative humidity: 15% to 95%, non-condensing

### Cabling

Maximum distance:

- 15 m using CX4 cables
- 300 m using optical media converters and multimode fiber cable

### Notes

Use CX4 10-GbE cable (0.5-15 m) or ProCurve 10-GbE CX4 Media Converter (J8439A)



## NEW 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  $\mu$ m or 50/125  $\mu$ 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  $\mu$ m core diameter, 160 MHz/km bandwidth)
- 275 m (62.5  $\mu$ m core diameter, 200 MHz/km bandwidth)
- 500 m (50  $\mu$ m core diameter, 400 MHz/km bandwidth)
- 550 m (50  $\mu$ 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  $\mu$ m or 50/125  $\mu$ 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 Switch 6200yl-24G-mGBIC



**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 1000Base-T Mini-GBIC (J8177B)**  
pluggable Gigabit transceiver (RJ-45) for up to 100 m over Cat 5 cable or better

## Ports

1 RJ-45 1000Base-T port (IEEE 802.3ab Type 1000Base-T)  
Duplex: full only

## Physical Characteristics

Dimensions: 2.56(d) x 0.55(w) x 0.57(h)  
in. (6.5 x 1.4 x 1.46 cm)  
Weight: 0.05 lb. (0.02 kg)

## Cabling

Type:

- 1000Base-T: Category 5 (5E or better recommended), 100  $\Omega$  differential 4-pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab 1000Base-T

Maximum distance:

- 100 m

## Notes

When used in the ProCurve Switch gl 20-Port 10/100/1000 Module (J4908A), the J8177B mini-GBIC can be installed in either the upper or lower mini-GBIC port, but will block access to the other port.

Requires specific code version for support:

- For use with 9300m series modules, requires code 07.8.00a or greater
  - For use with 8100fl series modules, requires CY.01.02.0050 or greater
  - For use with 5300xl series modules, requires code E.09.11 or greater (excluding E.09.21)
  - For use with 4100gl series modules, requires code G.07.69 or greater
- Not supported on dual-personality ports.



## **NEW** ProCurve 100-FX SFP-LC Transceiver (J9054B)

The J9054B ProCurve 100-FX SFP-LC Transceiver is a 100-FX transceiver that fits in SFP (Small Form-factor Pluggable, or "mini-GBIC") slots and provides 100 Mbps full-duplex connectivity up to 2 km distances, over multimode fiber.

## Ports

1 LC 100Base-FX port (IEEE 802.3u Type 100Base-FX)  
Duplex: half or full

## Physical Characteristics

Dimensions: 2.7(d) x 0.54(w) x 0.48(h)  
in. (6.86 x 1.38 x 1.22 cm)  
Weight: 0.06 lb. (0.03 kg)

## Environment

Operating temperature: 32°F to 158°F (0°C to 70°C)  
Operating relative humidity: 5% to 95%  
Non-operating/storage temperature: -40°F to 185°F (-40°C to 85°C)  
Non-operating/storage relative humidity: 5% to 85%  
Altitude: up to 10000 ft. (3 km)

## Cabling

Type:

- 62.5/125  $\mu$ m or 50/125  $\mu$ 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:

- 412 meters for half-duplex operation • 2 kilometers for full-duplex operation

## Notes

This product is supported in the ProCurve Switch 6200yl, 5400zl, 4200vl (in the vl J9033A module only), 3500yl, 2900, 2810, 2800, and 2510

- This product is not supported in the J8776A Switch vl 4-Port Mini-GBIC Module

See the document titled "Support for the J9054B 100-FX SFP-LC Transceiver", on the "ProCurve Mini-GBICs and SFPs" Manuals Webpage, for minimum software requirements to support this product.

# ProCurve Switch 6200yl-24G-mGBIC

## **NEW ProCurve Identity Driven Manager 2.0 base product--500-user license (J9012A)**

ProCurve Identity Driven Manager is a plug-in to ProCurve Manager Plus that dynamically applies security and performance settings based on user, device, location, time, and client system state -- 500 user license

### **System requirements**

Please refer to ProCurve Manager Plus for system requirements

#### **Minimum hardware**

2 MB storage

#### **Supported platforms**

OpenView NNM integration

#### **RADIUS server support**

FreeRADIUS (on Red Hat ES3 or ES4 or SuSe Linux 9)

Funk Steelbelted RADIUS Server

Microsoft IAS

#### **Features**

Intuitive Explorer-style interface

OpenView NNM integration

Application of policies by user identity

- Auto VLAN assignment

- Auto set quality of service by user  
- Auto set bandwidth assignment by user  
Rule-based access rights deployment  
Dynamic rights assignment based on:  
- Time  
- Location  
- User system  
Auto-discovery of:  
- RADIUS servers  
- Realms  
- Users

#### **Notes**

The base product for Identity Driven Manager allows for managing up to 500 users. Customers may add users in quantities of 2000 by purchasing J9014A.

## **NEW ProCurve 620 Redundant/External Power Supply (J8696A)**

Provides redundant system power and/or extra PoE power for up to two switches simultaneously

### **Physical Characteristics**

Dimensions: 15.4(d) x 17.4(w) x 1.73(h) in. (39.12 x 44.2 x 4.39 cm)(1U height)

Weight: 15.2 lb. (6.89 kg)

### **Environment**

Operating temperature: 32°F to 131°F (0°C to 55°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:

15% to 90% @ 149°F (65°C), non-condensing

Altitude: up to 10000 ft. (3 km)

Acoustic: LwA per ISO 7779: 54.2 dB

### **Electrical Characteristics**

Max heat dissipation: 400 BTU/hr(422 kJ/hr), for the actual 620 itself.

PoE-powered device heat dissipation assumed to be outside the 620.

Voltage: 100-127 / 200-240 VAC

Current: 16 / 8 A

Power consumption: 1440 W

RPS power: 390 W

PoE power: 796 W

RPS: 12 V

PoE: -50 V

Frequency: 50 / 60 Hz

Notes: Above figures are for maximum RPS and PoE power being supplied to 2 switches simultaneously. 200 - 240 V

power cords shipped with the 620 have a wall plug rated as close to 13 A as specific country standards allow.

### **Safety**

CSA 22.2 No. 60950

EN 60950/IEC 60950

UL 60950

### **Emission**

FCC Class A

VCCI Class A

EN55022/CISPR-22 Class A

### **Immunity**

EN: EN55024, CISPR 24

ESD: IEC 61000-4-2

Radiated: IEC 61000-4-3

EFT/Burst: IEC 61000-4-4

Surge: IEC 61000-4-5

Conducted: IEC 61000-4-6

Power frequency magnetic field: IEC 61000-4-8

Voltage: IEC 61000-4-11

Harmonics: EN61000-3-2, IEC61000-3-2

Flicker: EN61000-3-3, IEC61000-3-3

### **Management**

Unmanaged power supply; provides information via LEDs (LEDs repeated on front and back panel) or through port interfaces of attached devices

### **Notes**

The ProCurve 620 supports the ProCurve 2900 series (RPS), 3500yl series(RPS/PoE), and 6200yl (RPS) switches. The ProCurve 5400zl switches are not supported.

The ProCurve 620 includes 4 2-meter RPS/EPS cables. These cables can be used to carry either RPS or PoE power to the switch being powered.

Software

**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

yl Modules



**NEW ProCurve Switch yl 10-GbE 2P CX4 + 2P X2 Module (J8694A)**

10-GbE module with two fixed CX4 ports and two X2 slots for ProCurve Switch 3500yl series and ProCurve Switch 6200yl-24G-mGBIC

**Ports**

2 open transceiver slots  
2 10-GbE ports (IEEE 802.3ak Type 10Gbase-CX4)  
Duplex: full only

**Physical Characteristics**

Dimensions: 7.76(d) x 7.52(w) x 14.29(h) in. (19.7 x 19.1 x 36.3 cm)  
Weight: 1.54 lb. (.7 kg)

**Environment**

Operating temperature: 32°F to 131°F (0°C to 55°C)  
Operating relative humidity: 15% to 95%, non-condensing  
Non-operating/storage temperature: -40°F to 158°F (-40°C to 70°C)  
Non-operating/storage relative humidity: 15% to 90%, non-condensing

**Cabling**

Maximum distance:  
• CX4: 15 m (CX4 cable) or 300 m (media converter with ribbon MMF)

**Notes**

Only the two fixed CX4 ports on this module support ProCurve 10-GbE CX4 Media Converter (J8439A).

Operating temperature is 32°F to 104°F (0°C to 40°C) if any X2 10-GbE optic or transceiver is inserted in any X2 slot.

One 0.5 m CX4 cable is included.