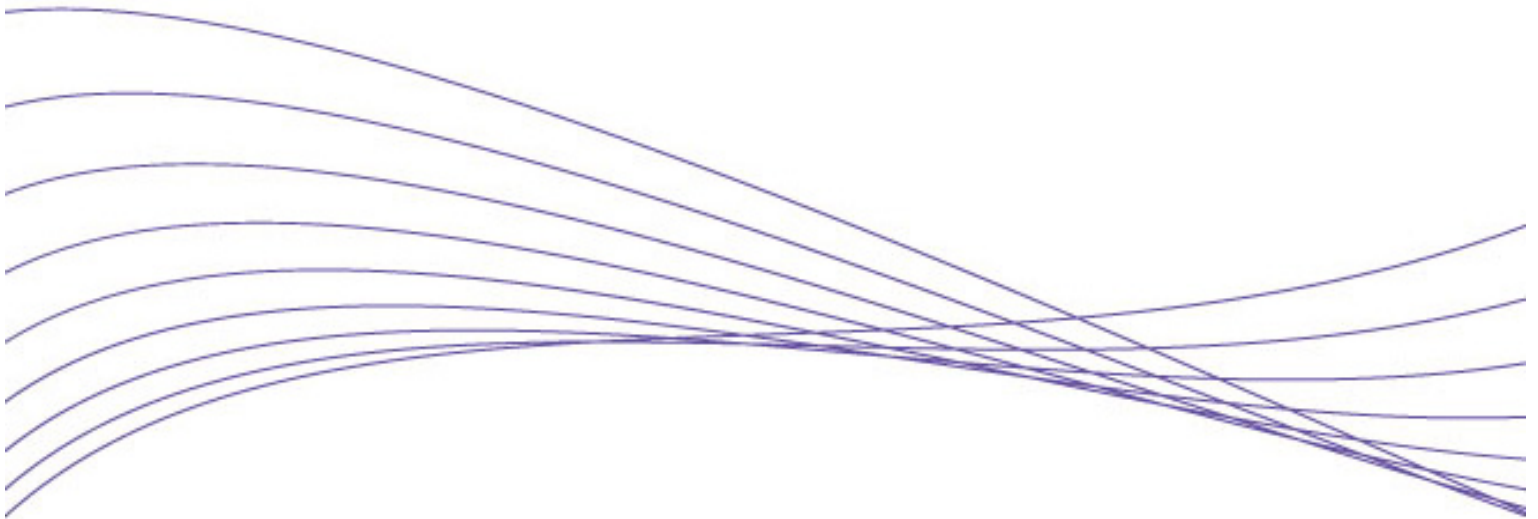


## ProCurve Switch 6200yl-24G-mGBIC

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 8200/6200/5400/3500 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:** provides independent primary and secondary OS files for backup while upgrading

- **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 a 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

- **Management simplicity:** ProCurve-common networking features and CLI implementation (common across ProCurve zl and yl switches)

### 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

# ProCurve Switch 6200yl-24G-mGBIC

non-IPv4 protocols automatically into their own VLANs

- **GARP VLAN Registration Protocol:** allows 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 throttling:** 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 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 client's MAC address

## • 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 theft of network data

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

- **Port security:** allows access only to specified

# ProCurve Switch 6200yl-24G-mGBIC

MAC addresses, which can be learned or specified by the administrator

- **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

## 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

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### Specifications

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#### Ports

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

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#### 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)

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#### Memory and processor

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

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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

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

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#### 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 15000 ft. (4.6 km)  
Acoustic Power: 55.1 dB; DIN 45635T.19 per ISO 7779

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#### Electrical characteristics

Description The switch automatically adjusts to any voltage between 100-127 and 200-240 volts and either 50 or 60 Hz  
Maximum heat dissipation 829 BTU/hr (875 kJ/hr)  
Voltage 100-127 / 200-240 VAC  
Current 1.8 / 0.9 A  
Power consumption 243 W  
Frequency 50 / 60 Hz

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#### Safety

CSA 22.2 No. 60950; UL 60950; IEC 60950; EN 60950

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#### Emissions

FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A

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# ProCurve Switch 6200yl-24G-mGBIC

## Immunity

EN	EN 55024, CISPR 24
ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD
Radiated	IEC 61000-4-3; 3 V/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; 3 V
Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
Voltage dips and interruptions	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
Harmonics	EN 61000-3-2, IEC 61000-3-2
Flicker	EN 61000-3-3, IEC 61000-3-3

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## Management

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

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## Notes

When using mini-GBICs with this product, mini-GBICs with revision "B" or later (product number ends with the letter "B" or later, e.g. J4858B, J4859C) are required.

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# ProCurve Switch 6200yl-24G-mGBIC

## Standards and Protocols

### Device Management

RFC 1591 DNS (client)  
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 RIPv1  
RFC 1519 CIDR  
RFC 1542 BOOTP Extensions  
RFC 2030 Simple Network Time Protocol (SNTP) v4  
RFC 2131 DHCP  
RFC 2453 RIPv2  
RFC 3046 DHCP Relay Agent Information Option  
RFC 3768 VRRP

UDLD (Uni-directional Link Detection)

### IP Multicast

RFC 2362 PIM Sparse Mode  
RFC 3376 IGMPv3 (host joins only)  
RFC 3973 PIM Dense Mode

### MIBs

RFC 1213 MIB II  
RFC 1493 Bridge MIB  
RFC 1724 RIPv2 MIB  
RFC 1850 OSPFv2 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 2787 VRRP MIB  
RFC 2863 The Interfaces Group MIB  
RFC 2925 Ping MIB

### Network Management

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)  
RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)  
RFC 3176 sFlow  
ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)  
SNMPv1/v2c/v3  
XRMON

### OSPF

RFC 2328 OSPFv2  
RFC 3101 OSPF NSSA

### 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  
RFC 2866 RADIUS Accounting  
Secure Sockets Layer (SSL)  
SSHv1/SSHv2 Secure Shell

# ProCurve Switch 6200yl-24G-mGBIC

## Accessories

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**ProCurve 10-GbE X2-SC SR Optic (J8436A)**  
An X2 form-factor transceiver that supports the 10-Gigabit SR standard, providing 10-Gigabit connectivity up to 300 meters on multimode fiber.

**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 0.43(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**  
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:  
• 62.5 μm multimode cable @ 160 MHz\*km = 2-26 meters  
• 62.5 μm multimode cable @ 200 MHz\*km = 2-33 meters  
• 50 μm multimode cable @ 400 MHz\*km = 2-66 meters  
• 50 μm multimode cable @ 500 MHz\*km = 2-82 meters  
• 50 μm multimode cable @ 2000 MHz\*km = 2-300 meters

**Notes**  
850 nm serial optics

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**ProCurve 10-GbE X2-SC LR Optic (J8437A)**  
An X2 form-factor transceiver that supports the 10-Gigabit LR standard, providing 10-Gigabit connectivity up to 10 km on singlemode fiber.

**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 μm single-mode cable = 2 m-10 km

**Notes**  
1310 nm serial optics  
Conditioning patch cord cables are not supported.

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**ProCurve 10-GbE X2-SC ER Optic (J8438A)**  
An X2 form-factor transceiver that supports the 10-Gigabit ER standard, providing 10-Gigabit connectivity up to 30 km on singlemode fiber (40 km on engineered links).

**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 0.43(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 (40 km on engineered links)

**Notes**  
1550 nm serial optics  
Conditioning patch cord cables are not supported.

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# ProCurve Switch 6200yl-24G-mGBIC

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

An optical media converter that connects to CX4 ports, providing 10-Gigabit connectivity up to 300 meters on multimode fiber.

### Physical characteristics

Dimensions: 2.83(d) x 0.98(w) x 0.59(h) in. (7.19 x 2.49 x 1.5 cm)  
Weight: .06 lb. (0.03 kg)

### 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

### Notes

Duplex: full

Cabling type: 12 fiber 62.5/125  $\mu$ m (core/cladding) diameter or 12 fiber 50/125  $\mu$ m diameter, multimode ribbon cable with MPO/MTP to MPO/MTP connectors



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

An X2 form-factor transceiver with a CX4 connector that provides 10-Gigabit connectivity up to 15 meters over CX4 (copper) cable.

### Ports

1 CX4 transceiver port

### 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% @ 149°F (65°C), non-condensing

### Cabling

Maximum distance:  
• 15 m using CX4 cables  
• 300 m using

optical media converters and multimode fiber cable

### Notes

Connector: CX4; Duplex: full

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

For suggested vendors of CX4 cables, please see the "Cabling" answers on the "ProCurve 10-GbE Transceivers" FAQs Web page.



## 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  $\mu$ 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 Switch 6200yl-24G-mGBIC



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

A small form-factor pluggable (SFP) 100-FX transceiver that provides 100 Mbps full-duplex connectivity up to 2 km on 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  $\mu\text{m}$  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:

- 2 km (full duplex) or 412 m (half duplex)

### **Notes**

This product is supported in the ProCurve Switch 8200zl, 6200yl, 5400zl, 4200vl (in the 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 Web page, for minimum software requirements to support this product.

# ProCurve Switch 6200yl-24G-mGBIC

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

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

### **Ports**

2 redundant power supply ports  
Restrictions: 195 W available per port  
2 external power supply ports  
Restrictions: 398 W available per port

### **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)

### **Mounting**

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

### **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**

Maximum 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

### **Emissions**

FCC Class A  
VCCI Class A  
EN 55022/CISPR 22 Class A

### **Immunity**

EN: EN 55024, 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 dips and interruptions: IEC 61000-4-11  
Harmonics: EN 61000-3-2, IEC 61000-3-2  
Flicker: EN 61000-3-3, IEC 61000-3-3

### **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.

# ProCurve Switch 6200yl-24G-mGBIC

## ProCurve Manager Plus v2.2 unlimited-device license (J9059A)

PCM+ 2.2 unlimited license provides a PCM+ license that does not limit the number of devices managed (it does NOT require the 50-device license).

## 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

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

### Additional requirements

NOTE: ProCurve Network Immunity Manager when loaded on PCM+ 2.2 can sample up to 500 managed ports using sFlow or XRMON.

### Notes

Additional processing power may be necessary for extensive traffic monitoring.

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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## ProCurve Identity Driven Manager 2.2 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 see ProCurve Manager Plus for system requirements.

### Supported platforms

OpenView NNM integration

### RADIUS server support

Free RADIUS  
Funk Steelbeltd 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.



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

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

**Ports**

2 open 10-GbE X2 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. (0.7 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 using CX4 cable or 300 m using 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.