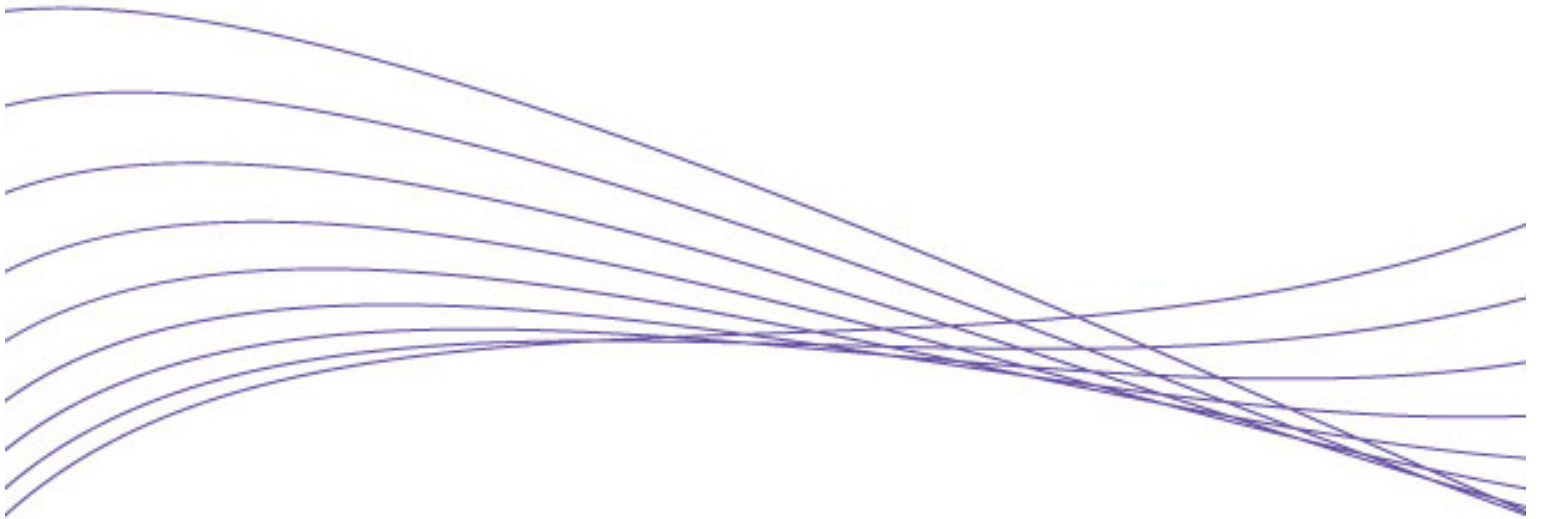


ProCurve Switch 6108

The ProCurve Switch 6108 is a low-cost, stackable, multi-layer managed 8-port switch with 6 auto-sensing 10/100/1000 ports and 2 dual-personality ports for 10/100/1000 or mini-GBIC connectivity. With Layer 3 basic IP routing, an industry-leading lifetime warranty, and free end-user telephone and e-mail support, the ProCurve 6108 is ideal for access-tier aggregation, with 2 optional Gigabit fiber uplinks to connect at distances up to 70 km.



ProCurve Switch 6108
(J4902A)



ProCurve Switch 6108

Features and benefits

Connectivity

- **Dual-personality functionality:** two 10/100/1000 ports or mini-GBIC slots for optional fiber connectivity such as Gigabit-SX, -LX, or -LH

Performance

- **16 Gbps backplane:** non-blocking architecture for wire-speed throughput

Resiliency and high availability

- **IEEE 802.1w Rapid Convergence Spanning Tree Protocol:** increases network uptime through faster recovery from failed links
- **IEEE 802.3ad Link Aggregation Control Protocol (LACP) and ProCurve trunking:** support up to 6 trunks, each with up to 4 links (ports) per trunk

Layer 2 switching

- **VLAN support and tagging:** supports up to 30 port-based VLANs, GVRP, and IEEE 802.1Q VLAN tagging
- **GARP VLAN Registration Protocol:** allows automatic learning and dynamic assignment of VLANs

Layer 3 routing

- **Basic IP routing:** enables automatic routing to the connected VLANs and up to 16 static routes--including one default route--in IP networks

Security

- **IEEE 802.1X and RADIUS network login:** control port-based access for authentication and accountability

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

- **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 access to manage the ProCurve Switch 6108:** all access methods--CLI, GUI, or MIB--are securely encrypted through SSHv2, SSL, and/or SNMPv3

Quality of Service (QoS)

- **Traffic prioritization (IEEE 802.1p):** allows real-time traffic classification into 8 priority levels mapped to 4 queues

Manageability

- **RMON:** provides advanced monitoring and reporting capabilities for statistics, history, alarms, and events
- **Stacking capability:** single IP address management for a virtual stack of up to 16 switches, including the ProCurve 2500 series, 2510 series, 2600 series, 2800 series, 2810 series, 2900 series, 3400cl series, 3500y1 series, 4200v1 series, 6108, 6200y1-24G-mGBIC, and 6400cl series
- **ProCurve/IEEE Auto-MDIX:** automatically adjusts for straight-through or crossover cables on all 10/100/1000 ports

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

Industry-leading warranty

ProCurve Switch 6108

- **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 (H5481E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (U6303E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (U6302E)
- 3-year, 24x7 SW phone support, software updates (UE261E)
- Installation with minimum configuration, system-based pricing (U4826E)
- Installation with HP-provided configuration, system-based pricing (U4830E)

ProCurve Switch 6108



ProCurve Switch 6108 J4902A

Specifications

Ports

6 auto-sensing 10/100/1000 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T); Media Type: IEEE Auto-MDIX; Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only

1 RS-232C DB-9 console port

2 dual-personality ports; each port can be used as either 2 additional RJ-45 10/100/1000 ports (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-TX; IEEE 802.3ab 1000Base-T Gigabit Ethernet), 2 open mini-GBIC slots (for use with mini-GBIC transceivers), or one of each

Physical characteristics

Dimensions 9.3(d) x 17.42(w) x 1.73(h) in. (23.62 x 44.25 x 4.39 cm) (1U height)

Weight 6.96 lb. (3.16 kg)

Memory and processor

Processor Motorola PowerPC MPC8245 @ 266 MHz, 16 MB flash

Mounting

Mounts in a standard 19 in. rack (hardware included)

Performance

Latency < 12.5 μ s (LIFO 64-byte packets)

Throughput 11.9 million pps (64-byte packets)

Switching capacity 16 Gbps

Routing table size 8000 entries

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 95% @ 149°F (65°C), non-condensing

Altitude up to 15000 ft. (4.6 km)

Electrical characteristics

Maximum heat dissipation 341 BTU/hr (360 kJ/hr)

Voltage 100-240 VAC

Current 1.5 A

Power consumption 100 W

Frequency 50 / 60 Hz

Safety

cUL (CSA 950); EN 60950/IEC 60950; NOM-019-SCFI-1994; UL 1950 3rd edition

Emissions

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

Immunity

ProCurve Switch 6108

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

Management

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

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 802.1w 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 1542 BOOTP Extensions
 RFC 2030 Simple Network Time
 Protocol (SNTP) v4

IP Multicast
 RFC 2236 IGMPv2

MIBs
 RFC 1213 MIB II
 RFC 1493 Bridge 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
 RFC 2819 Four groups of RMON:
 1 (statistics), 2 (history), 3
 (alarm) and 9 (events)
 SNMPv1/v2c/v3

Security
 IEEE 802.1X Port Based Network
 Access Control
 RFC 1492 TACACS+
 Secure Sockets Layer (SSL)
 SSHv1/SSHv2 Secure Shell

Accessories



ProCurve Gigabit-SX-LC Mini-GBIC (J4858C)
A small form factor pluggable (SFP) gigabit SX transceiver that provides a full-duplex gigabit solution up to 550 meters on multimode fiber.

Ports
1 LC 1000Base-SX port (IEEE 802.3z Type 1000Base-SX)
Duplex: full only

Physical characteristics
Dimensions: 2.24(d) x 0.54(w) x 0.486(h) in. (5.69 x 1.37 x 1.23 cm)
Weight: 0.04 lb. (0.02 kg)

Cabling
Type:
• 62.5/125 μm or 50/125 μm (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively

Maximum distance:
• 220 m (62.5 μm core diameter, 160 MHz/km bandwidth)
• 275 m (62.5 μm core diameter, 200 MHz/km bandwidth)
• 500 m (50 μm core diameter, 400 MHz/km bandwidth)
• 550 m (50 μm core diameter, 500 MHz/km bandwidth)



ProCurve Gigabit-LX-LC Mini-GBIC (J4859C)
A small form factor pluggable (SFP) gigabit LX transceiver that provides a full-duplex gigabit solution up to 10 km (singlemode) or 550 m (multimode).

Ports
1 LC 1000Base-LX port (IEEE 802.3z Type 1000Base-LX)
Duplex: full only

Physical characteristics
Dimensions: 2.24(d) x 0.54(w) x 0.486(h) in. (5.69 x 1.37 x 1.23 cm)
Weight: 0.04 lb. (0.02 kg)

Cabling
Type:
• Either single mode or multimode
• 62.5/125 μm or 50/125 μm (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively

Maximum distance:
• 10 km (single mode) or 550 m (multimode)

Notes
A mode conditioning patch cord may be needed in some multimode fiber installations.



ProCurve Gigabit-LH-LC Mini-GBIC (J4860C)
A small form factor pluggable (SFP) gigabit LH transceiver that provides a full-duplex gigabit solution up to 70 km on singlemode fiber.

Ports
1 LC 1000Base-LH port (no IEEE standard exists for 1550 nm optics)
Duplex: full only

Physical characteristics
Dimensions: 2.17(d) x 0.60(w) x 0.46(h) in. (5.5 x 1.53 x 1.18 cm)
Weight: 0.04 lb. (0.02 kg)

Cabling

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

Maximum distance:
• 70 km

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