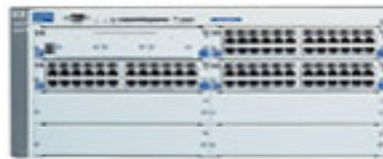


ProCurve Switch 4100gl Series

The ProCurve Switch 4100gl series is convergence-ready and easy to use, and is available in compact 8-slot and 4-slot modular form factors. Based on ProCurve Fast Path Technology, these switches provide reliable, high-performance, high-density 10 Mbit, 100 Mbit, or Gigabit connectivity for a growing network. The ProCurve 4100gl series is the low-cost, modular alternative to stackable switches and includes a lifetime warranty.



ProCurve Switch 4104gl
(J4887A)



ProCurve Switch 4108gl
Bundle (J4861A)



ProCurve Switch 4140gl
(J8151A)



ProCurve Switch 4148gl
(J4888A)



ProCurve Switch 4160gl
(J8152A)



ProCurve Switch 4108gl
(J4865A)

ProCurve Switch 4100gl Series

Features and benefits

Performance

- **Fast Path Technology:** wire-speed switching of intra-module traffic for up to 31.9 million pps throughput; fully loaded 8-slot chassis capable of switching 255 million pps
- **Fast switch fabric:** inter-module traffic switching of up to 2.97 million pps

Resiliency and high availability

- **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; trunking across modules is supported
- **IEEE 802.1w Rapid Convergence Spanning Tree Protocol:** increases network uptime through faster recovery from failed links
- **Optional redundant power supply:** provides uninterrupted power; allows hot-swapping of one of the two supplies when installed
- **Hot-swappable modules:** permit modules, mini-GBICs, and one of the power supplies in a redundant power supply configuration to be added or swapped without interrupting the network

Layer 2 switching

- **VLAN support and tagging:** supports the IEEE 802.1Q (4,096 VLAN IDs) and 30 VLANs simultaneously
- **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

- **Port security:** allows access only to specified MAC addresses, which can be learned or specified by the administrator
- **IEEE 802.1X and RADIUS network login and OpenVLAN:** control port-based access for authentication and accountability
- **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 management access:** all access methods--CLI, GUI, or MIB--are securely encrypted through SSHv2, SSL, and/or SNMPv3

Convergence

- **IEEE 802.1AB Link Layer Discovery Protocol (LLDP):** automated device discovery protocol for easy mapping by network management applications
- **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, 3500yl series, 4200vl series, 6108, 6200yl-24G-mGBIC, and 6400cl series

Quality of Service (QoS)

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

ProCurve Switch 4100gl Series

Manageability

- **RMON:** provides advanced monitoring and reporting capabilities for statistics, history, alarms, and events
- **Friendly port names:** allow assignment of descriptive names to ports
- **ProCurve/IEEE Auto-MDIX:** automatically adjusts for straight-through or crossover cables on all 10/100/1000 ports
- **Dual flash images:** provides independent primary and secondary OS files for backup while upgrading

Industry-leading warranty

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

Services

ProCurve Switch 4104gl

- 3-year, 4-hour onsite, 13x5 coverage for hardware (UE241E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (UE242E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UE243E)
- 3-year, 24x7 SW phone support, software updates (UE263E)
- Installation with minimum configuration, system-based pricing (U4827E)
- Installation with HP-provided configuration, system-based pricing (U4831E)

ProCurve Switch 4108gl Bundle

- 3-year, 4-hour onsite, 13x5 coverage for hardware (UE244E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (UE245E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UE246E)
- 3-year, 24x7 SW phone support, software

updates (UF787E)

- Installation with minimum configuration, system-based pricing (U4827E)
- Installation with HP-provided configuration, system-based pricing (U4831E)

ProCurve Switch 4140gl

- 3-year, 4-hour onsite, 13x5 coverage for hardware (UE241E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (UE242E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UE243E)
- 3-year, 24x7 SW phone support, software updates (UE263E)
- Installation with minimum configuration, system-based pricing (U4827E)
- Installation with HP-provided configuration, system-based pricing (U4831E)

ProCurve Switch 4148gl

- 3-year, 4-hour onsite, 13x5 coverage for hardware (UE241E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (UE242E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UE243E)
- 3-year, 24x7 SW phone support, software updates (UE263E)
- Installation with minimum configuration, system-based pricing (U4827E)
- Installation with HP-provided configuration, system-based pricing (U4831E)

ProCurve Switch 4160gl

- 3-year, 4-hour onsite, 13x5 coverage for hardware (UE244E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (UE245E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UE246E)
- 3-year, 24x7 SW phone support, software updates (UF787E)
- Installation with minimum configuration, system-based pricing (U4827E)

ProCurve Switch 4100gl Series

- Installation with HP-provided configuration, system-based pricing (U4831E)

ProCurve Switch 4108gl

- 3-year, 4-hour onsite, 13x5 coverage for hardware (UE244E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (UE245E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UE246E)
- 3-year, 24x7 SW phone support, software updates (UF787E)
- Installation with minimum configuration, system-based pricing (U4827E)
- Installation with HP-provided configuration, system-based pricing (U4831E)

ProCurve Switch 4100gl Series



**ProCurve Switch 4104gl
(J4887A)**



**ProCurve Switch 4108gl
Bundle (J4861A)**



**ProCurve Switch 4140gl
(J8151A)**

Specifications

Included accessories

3 ProCurve Switch gl 24-Port
10/100-TX Module (J4862B)
1 ProCurve Switch gl Transceiver
Module (J4864A)

2 ProCurve Switch gl 20-Port
10/100/1000 Module (J4908A)

Ports

4 open module slots
1 RS-232C DB-9 console port
Supports a maximum of 96
auto-sensing 10/100 ports or 80
Gigabit ports plus 8 mini-GBICs,
or a combination

4 open module slots
1 RS-232C DB-9 console port
Supports a maximum of 168
auto-sensing 10/100 ports or 80
Gigabit ports plus 8 mini-GBICs,
or a combination

72 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

3 transceiver ports

2 open module slots
1 RS-232C DB-9 console port
Supports a maximum of 48
auto-sensing 10/100 ports or 80
Gigabit ports plus 8 mini-GBICs,
or a combination

40 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

4 open mini-GBIC (SFP) slots

Physical characteristics

Dimensions	15.3(d) x 17.4(w) x 5.25(h) in. (38.86 x 44.2 x 13.34 cm) (3U height)	15.3(d) x 17.4(w) x 8.75(h) in. (38.86 x 44.2 x 22.23 cm) (5U height)	15.3(d) x 17.4(w) x 5.25(h) in. (38.86 x 44.2 x 13.34 cm) (3U height)
Weight	14.77 lb. (6.7 kg), Fully loaded	22.93 lb. (10.4 kg), Fully loaded	22.93 lb. (10.4 kg), Fully loaded

Memory and processor

Fabric	Motorola PowerPC @ 200 MHz, 8 MB flash, 32 MB SDRAM	Motorola PowerPC @ 200 MHz, 8 MB flash, 32 MB SDRAM	Motorola PowerPC @ 200 MHz, 8 MB flash, 32 MB SDRAM
Module	IDT MIPS32 @ 125 MHz, 512 KB flash; packet buffer size: 512 KB 8 MB SDRAM	IDT MIPS32 @ 125 MHz, 512 KB flash, 512 KB SRAM; packet buffer size: 1 MB	IDT MIPS32 @ 125 MHz, 512 KB flash; packet buffer size: 512 KB 8 MB SDRAM

Mounting

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

Latency	< 10.2 μ s (FIFO 64-byte packets) Gbps	< 10.2 μ s (FIFO 64-byte packets) Gbps	< 10.2 μ s (FIFO 64-byte packets) Gbps
Throughput	up to 35.7 million pps	up to 71.4 million pps	up to 35.7 million pps

ProCurve Switch 4100gl Series

Switch fabric speed	18.3 Gbps	36.6 Gbps	18.3 Gbps
Routing table size	8000 entries	8000 entries	8000 entries
Environment			
Operating temperature	32°F to 131°F (0°C to 55°C)	32°F to 131°F (0°C to 55°C)	32°F to 131°F (0°C to 55°C)
Operating relative humidity	15% to 95% @ 104°F (40°C), non-condensing	15% to 95% @ 104°F (40°C), non-condensing	15% to 95% @ 104°F (40°C), non-condensing
Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Non-operating/Storage relative humidity	15% to 95% @ 149°F (65°C), non-condensing	15% to 95% @ 149°F (65°C), non-condensing	15% to 95% @ 149°F (65°C), non-condensing
Altitude	up to 15091 ft. (4.6 km)	up to 15091 ft. (4.6 km)	up to 15091 ft. (4.6 km)
Electrical characteristics			
Maximum heat dissipation	2152 BTU/hr (2270.36 kJ/hr)	2152 BTU/hr (2270.36 kJ/hr)	2152 BTU/hr (2270.36 kJ/hr)
Voltage	100-127 / 200-240 VAC	100-127 / 200-240 VAC	100-127 / 200-240 VAC
Current	8.2 / 3.8 A	8.2 / 3.8 A	8.2 / 3.8 A
Power consumption	630 W	630 W	630 W
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Safety			
	cUL (CSA 950); EN 60950/IEC 60950; NOM-019-SCFI-1994; UL 1950 3rd edition	cUL (CSA 950); EN 60950/IEC 60950; NOM-019-SCFI-1994; UL 1950 3rd edition	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	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A
Immunity			
EN	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD	IEC 61000-4-2; 4 kV CD, 8 kV AD	IEC 61000-4-2; 4 kV CD, 8 kV AD
Radiated	IEC 61000-4-3; 3 V/m	IEC 61000-4-3; 3 V/m	IEC 61000-4-3; 3 V/m
EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
Surge	IEC 61000-4-5; 1 kV/2 kV AC	IEC 61000-4-5; 1 kV/2 kV AC	IEC 61000-4-5; 1 kV/2 kV AC
Conducted	IEC 61000-4-6; 3 V	IEC 61000-4-6; 3 V	IEC 61000-4-6; 3 V
Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz	IEC 61000-4-8; 1 A/m, 50 or 60 Hz	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	IEC 61000-4-11; >95% reduction, 0.5 period, 30% reduction, 25 periods	IEC 61000-4-11; >95% reduction, 0.5 period, 30% reduction, 25 periods
Harmonics	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2
Flicker	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3
Management			

ProCurve Switch 4100gl Series

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

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

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

Standards and Protocols

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

RFC 2131 DHCP

IP Multicast

RFC 3376 IGMPv3

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

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
RFC 2665 Ethernet-Like-MIB
SNMPv1/v2c/v3

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 4100gl Series



**ProCurve Switch 4148gl
(J4888A)**



**ProCurve Switch 4160gl
(J8152A)**



**ProCurve Switch 4108gl
(J4865A)**

Specifications

Included accessories

2 ProCurve Switch gl 24-Port
10/100-TX Module (J4862B)

3 ProCurve Switch gl 20-Port
10/100/1000 Module (J4908A)

Ports

2 open module slots

48 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 RS-232C DB-9 console port

Supports a maximum of 96
auto-sensing 10/100 ports or 40
Gigabit ports plus 4 mini-GBICs,
or a combination

5 open module slots

1 RS-232C DB-9 console port

Supports a maximum of 120
auto-sensing 10/100 ports or 160
Gigabit ports plus 16 mini-GBICs,
or a combination

60 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

6 open mini-GBIC (SFP) slots

8 open module slots

1 RS-232C DB-9 console port

Supports a maximum of 192
auto-sensing 10/100 ports or 160
Gigabit ports plus 16 mini-GBICs,
or a combination

Physical characteristics

Dimensions	15.3(d) x 17.4(w) x 5.25(h) in. (38.86 x 44.2 x 13.34 cm) (3U height)	15.3(d) x 17.4(w) x 8.75(h) in. (38.86 x 44.2 x 22.23 cm) (5U height)	15.3(d) x 17.4(w) x 8.75(h) in. (38.86 x 44.2 x 22.23 cm) (5U height)
Weight	15.83 lb. (7.18 kg), Fully loaded	30.64 lb. (13.9 kg), Fully loaded	20.72 lb. (9.4 kg), Fully loaded

Memory and processor

Fabric	Motorola PowerPC @ 200 MHz, 8 MB flash, 32 MB SDRAM	Motorola PowerPC @ 200 MHz, 8 MB flash, 32 MB SDRAM	Motorola PowerPC @ 200 MHz, 8 MB flash, 32 MB SDRAM
Module	IDT MIPS32 @ 125 MHz, 512 KB flash; packet buffer size: 512 KB 8 MB SDRAM	IDT MIPS32 @ 125 MHz, 512 KB flash, 512 KB SRAM; packet buffer size: 1 MB	IDT MIPS32 @ 125 MHz, 512 KB flash, 512 KB SRAM; packet buffer size: 1 MB

Mounting

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

Latency	< 10.2 μ s (FIFO 64-byte packets) Gbps	< 10.2 μ s (FIFO 64-byte packets) Gbps	< 10.2 μ s (FIFO 64-byte packets) Gbps
Throughput	up to 35.7 million pps	up to 71.4 million pps	up to 71.4 million pps
Switch fabric speed	18.3 Gbps	36.6 Gbps	36.6 Gbps
Routing table size	8000 entries	8000 entries	8000 entries

ProCurve Switch 4100gl Series

Environment

Operating temperature	32°F to 131°F (0°C to 55°C)	32°F to 131°F (0°C to 55°C)	32°F to 131°F (0°C to 55°C)
Operating relative humidity	15% to 95% @ 104°F (40°C), non-condensing	15% to 95% @ 104°F (40°C), non-condensing	15% to 95% @ 104°F (40°C), non-condensing
Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Non-operating/Storage relative humidity	15% to 95% @ 149°F (65°C), non-condensing	15% to 95% @ 149°F (65°C), non-condensing	15% to 95% @ 149°F (65°C), non-condensing
Altitude	up to 15091 ft. (4.6 km)	up to 15091 ft. (4.6 km)	up to 15091 ft. (4.6 km)

Electrical characteristics

Maximum heat dissipation	2152 BTU/hr (2270.36 kJ/hr)	2152 BTU/hr (2270.36 kJ/hr)	2152 BTU/hr (2270.36 kJ/hr)
Voltage	100-127 / 200-240 VAC	100-127 / 200-240 VAC	100-127 / 200-240 VAC
Current	8.2 / 3.8 A	8.2 / 3.8 A	8.2 / 3.8 A
Power consumption	630 W	630 W	630 W
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz

Safety

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

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

EN	EN 55024, CISPR 24	EN 55024, CISPR 24	EN 55024, CISPR 24
ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD	IEC 61000-4-2; 4 kV CD, 8 kV AD	IEC 61000-4-2; 4 kV CD, 8 kV AD
Radiated	IEC 61000-4-3; 3 V/m	IEC 61000-4-3; 3 V/m	IEC 61000-4-3; 3 V/m
EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
Surge	IEC 61000-4-5; 1 kV/2 kV AC	IEC 61000-4-5; 1 kV/2 kV AC	IEC 61000-4-5; 1 kV/2 kV AC
Conducted	IEC 61000-4-6; 3 V	IEC 61000-4-6; 3 V	IEC 61000-4-6; 3 V
Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz	IEC 61000-4-8; 1 A/m, 50 or 60 Hz	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	IEC 61000-4-11; >95% reduction, 0.5 period, 30% reduction, 25 periods	IEC 61000-4-11; >95% reduction, 0.5 period, 30% reduction, 25 periods
Harmonics	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2	EN 61000-3-2, IEC 61000-3-2
Flicker	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3	EN 61000-3-3, IEC 61000-3-3

Management

ProCurve Manager Plus; ProCurve Manager (included); command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)	ProCurve Manager Plus; ProCurve Manager (included); command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)	ProCurve Manager Plus; ProCurve Manager (included); command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)
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ProCurve Switch 4100gl Series

Standards and Protocols

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

RFC 2131 DHCP

IP Multicast

RFC 3376 IGMPv3

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

IEEE 802.1AB Link Layer
Discovery Protocol (LLDP)
RFC 2665 Ethernet-Like-MIB
SNMPv1/v2c/v3

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 4100gl Series

Accessories



ProCurve Switch gl 20-Port 10/100/1000 Module (J4908A)
with 20 10/100/1000 ports and 2 mini-GBIC slots

Ports

2 open mini-GBIC (SFP) slots
20 RJ-45 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

Physical characteristics

Dimensions: 8.97(d) x 8.0(w) x 1.75(h) in. (22.78 x 20.32 x 4.45 cm)
Weight: 1.25 lb. (0.56 kg)

Cabling

Type:
• 10Base-T: Category 3 (or better) 100 Ω differential unshielded twisted pair (UTP) or shielded twisted pair (STP), complying with IEEE 802.3 Type 10Base-T
• 100Base-TX: Category 5 (or better),

100 Ω differential unshielded twisted pair (UTP) or shielded twisted pair (STP), complying with IEEE 802.3u 100Base-TX
• 1000Base-T: Category 5 (5E or better recommended), 100 Ω 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

Other mini-GBICs supported
• J4858A ProCurve Gigabit-SX-LC Mini-GBIC
• J4859A ProCurve Gigabit-LX-LC Mini-GBIC
• J4860A ProCurve Gigabit-LH-LC Mini-GBIC



ProCurve Switch gl 24-Port 10/100-TX Module (J4862B)
with 24 auto-sensing 10/100 ports

Ports

24 RJ-45 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

Physical characteristics

Dimensions: 8.97(d) x 8.0(w) x 1.75(h) in. (22.78 x 20.32 x 4.45 cm)
Weight: 1.24 lb. (0.56 kg)

Cabling

Type:

• 10Base-T: Category 3 (or better) 100 Ω differential unshielded twisted pair (UTP) or shielded twisted pair (STP), complying with IEEE 802.3 Type 10Base-T
• 100Base-TX: Category 5 (or better), 100 Ω differential unshielded twisted pair (UTP) or shielded twisted pair (STP), complying with IEEE 802.3u 100Base-TX

Maximum distance:

- 100 m



ProCurve Switch gl 6-Port Mini-GBIC Module (J4893A)
with 6 open mini-GBIC slots

Ports

6 open mini-GBIC (SFP) slots

Physical characteristics

Dimensions: 8.97(d) x 8.0(w) x 1.75(h) in. (22.78 x 20.32 x 4.45 cm)
Weight: 0.96 lb. (0.43 kg)

Notes

Other mini-GBICs supported
• J4858A ProCurve Gigabit-SX-LC Mini-GBIC
• J4859A ProCurve Gigabit-LX-LC Mini-GBIC
• J4860A ProCurve Gigabit-LH-LC Mini-GBIC

ProCurve Switch 4100gl Series



ProCurve Switch gl 6-Port 100/1000-T Module (J4863A)

with 6 auto-sensing 100/1000 ports

Ports

6 RJ-45 auto-sensing 100/1000 ports (IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T)
Media Type: IEEE Auto-MDIX
Duplex: 100Base-TX: half or full; 1000Base-T: full only

Physical characteristics

Dimensions: 8.97(d) x 8.0(w) x 1.75(h) in. (22.78 x 20.32 x 4.45 cm)
Weight: 1.0 lb. (0.45 kg)

Cabling

Type:

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

Maximum distance:

- 100 m



ProCurve Switch gl Transceiver Module (J4864A)

with 3 open transceiver slots

Ports

3 open transceiver slots

Physical characteristics

Dimensions: 8.97(d) x 8.0(w) x 1.75(h) in. (22.78 x 20.32 x 4.45 cm)
Weight: 1.16 lb. (0.52 kg)



ProCurve Switch gl 12-Port 100-FX MTRJ Module (J4892A)

with 12 100Base-FX MTRJ ports

Ports

12 MTRJ 100Base-FX ports (IEEE 802.3u Type 100Base-FX)
Duplex: half or full

Physical characteristics

Dimensions: 8.97(d) x 8.0(w) x 1.75(h) in. (22.78 x 20.32 x 4.45 cm)
Weight: 1.45 lb. (0.65 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:

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

ProCurve Switch gl/xl/vl Redundant Power Supply (J4839A)

Redundant power supply for gl/xl/vl switches.

Physical characteristics

Dimensions: 7.9(d) x 6.3(w) x 5.0(h) in. (20.07 x 16.0 x 12.7 cm)
Weight: 5.55 lb. (2.5 kg)

Electrical characteristics

Voltage: 100-127 / 200-240 VAC
Current: 8.2 / 3.8 A
Frequency: 50 / 60 Hz

Notes

For additional RPS specification information, see the data sheet for the product in which the RPS is being installed.

ProCurve Switch 4100gl Series



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
• 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)

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

**ProCurve Gigabit 1000Base-T Mini-GBIC (J8177B)**

A small form-factor pluggable (SFP) gigabit copper transceiver that provides a full-duplex gigabit solution up to 100 meters on Category 5 or better cable.

Ports

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

Physical characteristics

Dimensions: 2.71(d) x 0.54(w) x 0.55(h)
in. (6.88 x 1.37 x 1.4 cm)
Weight: .06 lb. (0.03 kg)

Cabling

Type:

- 1000Base-T: Category 5 (5E or better recommended), 100 Ω 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.

See the document titled "Support for the J8177B 1000Base-T Mini-GBIC", on the "ProCurve Mini-GBICs and SFPs" Manuals Web page, for supported platforms and minimum software requirements to support this product.

The J8177B gigabit copper mini-GBIC is not supported on dual-personality ports.

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