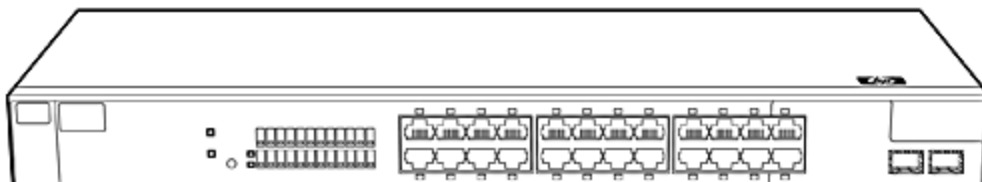
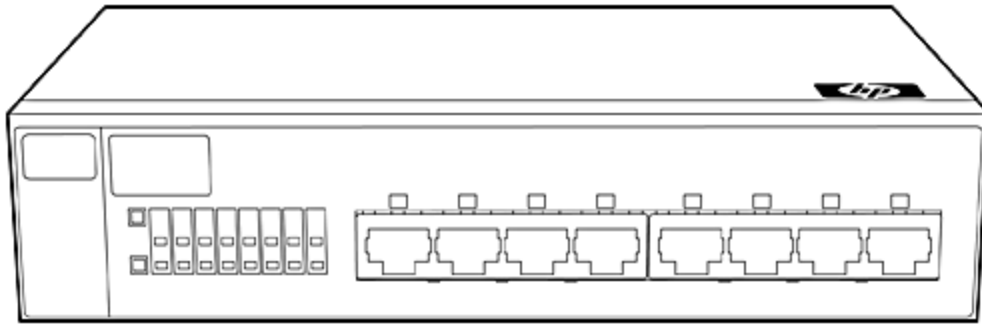


Overview

HP ProCurve Switch 1800 Series



HP ProCurve Switch 1800-24G



HP ProCurve Switch 1800-8G

Models

HP ProCurve Switch 1800-8G
HP ProCurve Switch 1800-24G

J9029A
J9028B

Key features

- Web-managed Layer 2 Gigabit switch
- 8- and 24-port models
- Fanless switch for silent operation
- Two dual-personality mini-GBIC slots (J9028B)
- Industry-leading warranty

Introduction

The HP ProCurve Switch 1800 Series consists of two Gigabit, fanless, Web-managed switches that are ideal for deployment in open offices that require silent operation. The HP ProCurve Switch 1800-24G is a 24-port 10/100/1000 switch with two dual-personality ports for RJ-45 10/100/1000 or mini-GBIC fiber Gigabit connectivity. The HP ProCurve Switch 1800-8G is a small form factor, 8-port 10/100/1000 switch. The ProCurve Switch 1800 Series enables increased network capabilities and control versus unmanaged switches, with support for fundamental networking protocols such as trunking and VLANs. Both switches are managed through an intuitive Web interface. The ProCurve Switch 1800 Series is ideal for businesses making the transition from unmanaged connectivity to managed networks without added cost or complexity.

Features and Benefits

Connectivity

- **Jumbo packet support:** to improve performance of large data transfers

Resiliency and high availability

- **IEEE 802.3ad Link Aggregation Control Protocol (LACP):** provides link-level redundancy with support for up to 4 trunks on the HP ProCurve Switch 1800-8G and 12 trunks on the HP ProCurve Switch 1800-24G, each with up to 8 links (ports) per trunk

Layer 2 switching

- **VLAN support and tagging:** support up to 64 port-based VLANs and dynamic configuration of IEEE 802.1Q VLAN tagging, providing security between workgroups

Security

- **Management password:** provides security so that only authorized access to the Web browser interface is allowed

Quality of Service (QoS)

- **Traffic prioritization:** honors priority of traffic based on 802.1p to deliver data to devices based on the priority and type of traffic
- **Broadcast control:** allows limitation of broadcast traffic rate to cut down on unwanted broadcast traffic on the network

Manageability

- **Intuitive Web interface:** enables simple management via an easy-to-use Web browser interface for switch configuration, monitoring, and administration
- **Integration with ProCurve Manager:** enables discovery and mapping via ProCurve Manager, available as a free download from the Web
- **IEEE 802.1AB Link Layer Discovery Protocol (LLDP):** automated device discovery protocol for easy mapping by network management applications

Monitor and diagnostics

- **Port mirroring:** enables traffic on a port to be simultaneously sent to a network analyzer for monitoring

Ease of use

- **Comprehensive LED display with per-port indicators:** provides an at-a-glance view of status, activity, speed, and full-duplex operation
- **ProCurve/IEEE Auto-MDIX:** automatically adjusts for straight-through or crossover cables on all 10/100/1000 ports

Flexibility

- **Small form factor:** ideal for desktop use; space-efficient for deployment flexibility (1800-8G only)
- **Designed with no fan:** enables quiet operation for deployment in open spaces

Warranty and support*

- **ProCurve Lifetime Warranty:** for as long as you own the product, with next-business-day advance replacement (available in most countries).
- **Electronic and telephone support:** limited electronic and telephone support is available from HP. Refer to the HP Web site at: www.procurve.com/support for details on the support provided and the period during which support is available.
- **Software releases:** refer to the HP Web site at: www.procurve.com/support for details on the software releases provided and the period during which software releases are available.

* For as long as you own the product, with next-business-day advance replacement (available in most countries). The following hardware products and their related series modules have a one-year hardware warranty with extensions available: HP ProCurve Routing Switch 9300m Series, HP ProCurve Switch 8100fl Series, and HP ProCurve Network Access Controller 800. The following hardware mobility products have a one-year hardware limited warranty with extensions available: HP ProCurve M111 Client Bridge, HP ProCurve MSM3xx-R Access Points, HP ProCurve MSM7xx Mobility and Access Controllers, HP ProCurve RF Manager IDS/IPS Systems, HP ProCurve MSM Power Supplies, and HP ProCurve 1-Port Power Injector. Standalone software, upgrades, or licenses may have a different warranty duration. For details, refer to the ProCurve Software License, Warranty, and Support booklet at: <http://www.procurve.com/warranty>.

HP ProCurve Switch 1800 Series accessories

HP ProCurve Manager 2.3

HP ProCurve Switch 1800 Series accessories

HP ProCurve Gigabit-SX-LC Mini-GBIC	J4858C
HP ProCurve Gigabit-LX-LC Mini-GBIC	J4859C
HP ProCurve Gigabit-LH-LC Mini-GBIC	J4860C
NEW HP ProCurve 1000-BX-D SFP-LC Mini-GBIC	J9142B
NEW HP ProCurve 1000-BX-U SFP-LC Mini-GBIC	J9143B

Services

ProCurve Switch 1800-8G	3-year, 4-hour onsite, 13x5 coverage for hardware	UE256E
	3-year, 4-hour onsite, 24x7 coverage for hardware	UE257E
	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support	UE258E
	3-year, 24x7 SW phone support, software updates	UE260E
ProCurve Switch 1800-24G	3-year, 4-hour onsite, 13x5 coverage for hardware	U4683E
	3-year, 4-hour onsite, 24x7 coverage for hardware	U4835E
	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support	U6321E
	3-year, 24x7 SW phone support, software updates	UF792E

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Technical Specifications

HP ProCurve Switch 1800-24G (J9028B)	Ports	22 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
		2 dual-personality ports; each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-TX; IEEE 802.3ab 1000Base-T Gigabit Ethernet) or an open mini-GBIC slot (for use with mini-GBIC transceivers)
	Dimensions	6.74(d) x 17.42(w) x 1.73(h) in. (17.12 x 44.25 x 4.39 cm) (1U height)
	Weight	4.32 lb. (1.96 kg), Fully loaded
	Memory and processor	2 MB flash, 64 KB SDRAM, 2 MB RAM/ROM capacity; packet buffer size: 500 KB

Mounting	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included)	
Performance	100 Mb Latency	<4.7 μ s (64-byte packets)
	1000 Mb Latency	<3.0 μ s (64-byte packets)
	Throughput	up to 35.7 million pps (64-byte packets)
	Switching capacity	48 Gbps
	MAC addressable size	8,000 entries
Environment	Operating temperature	32°F to 104°F (0°C to 40°C)
	Operating relative humidity	10% to 90% @ 104°F (40°C), non-condensing
	Non-operating/ Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Non-operating/ Storage relative humidity	10% to 90% @ 149°F (65°C), non-condensing
	Altitude	up to 10000 ft. (3 km)
Electrical characteristics	Acoustic	Power: 0 dB no fan
	Maximum heat dissipation	92 BTU/hr (97 kJ/hr)
	Voltage	100-127 / 200-240 VAC
	Current	0.8 / 0.4 A
	Power consumption	27 W
	Frequency	50 / 60 Hz
	NOTES: Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.	
Safety	CSA 22.2 No. 60950; EN 60950/IEC 60950; UL 60950	
Emissions	FCC Rules Part 15, Subpart B Class A; EN 55022; VCCI; ICES-003 (Canada)	
Immunity	EN	EN 55024, CISPR 24
	ESD	EN 61000-4-2
	Radiated	EN 61000-4-3
	EFT/Burst	EN 61000-4-4
	Surge	EN 61000-4-5
	Conducted	EN 61000-4-6
	Power frequency magnetic field	EN 61000-4-8
	Voltage dips and interruptions	EN 61000-4-11
	Harmonics	EN 61000-3-2
	Flicker	EN 61000-3-3
Management Services	HP ProCurve Manager; Web browser	
	3-year, 4-hour onsite, 13x5 coverage for hardware (U4683E)	
	3-year, 4-hour onsite, 24x7 coverage for hardware (U4835E)	
	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (U6321E)	
	3-year, 24x7 SW phone support, software updates (UF792E)	
	Installation with minimum configuration, system-based pricing (U4826E)	
	Installation with HP-provided configuration, system-based pricing (U4830E)	

Refer to the HP Web site at: www.procurve.com/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

	Standards and protocols	General Protocols IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3x Flow Control RFC 1534 DHCP/BOOTP Interoperation Network Management IEEE 802.1AB Link Layer Discovery Protocol (LLDP)	
	Notes	Use only supported genuine ProCurve mini-GBICs with your switch.	
HP ProCurve Switch 1800-8G (J9029A)	Ports	8 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	
	Dimensions	4.58(d) x 7.73(w) x 1.73(h) in. (11.63 x 19.63 x 4.39 cm) (1U height)	
	Weight	1.19 lb. (0.54 kg), Fully loaded	
	Memory and processor	1 MB flash, 64 KB SDRAM, 1 MB RAM/ROM capacity; packet buffer size: 144 KB	
	Mounting	Horizontal surface mounting only	
	Performance	100 Mb Latency	<3.9 μ s (64-byte packets)
		1000 Mb Latency	<2.1 μ s (64-byte packets)
		Throughput	up to 11.9 million pps (64-byte packets)
		Switching capacity	16 Gbps
		MAC address table size	8,000 entries
	Environment	Operating temperature	32°F to 104°F (0°C to 40°C)
		Operating relative humidity	10% to 90% @ 104°F (40°C), non-condensing
		Non-operating/ Storage temperature	-40°F to 158°F (-40°C to 70°C)
		Non-operating/ Storage relative humidity	10% to 90% @ 149°F (65°C), non-condensing
		Altitude	up to 10000 ft. (3 km)
	Electrical characteristics	Acoustic	Power: 0 dB no fan
		Maximum heat dissipation	61 BTU/hr (64 kJ/hr)
		Voltage	100-240 VAC
		Current	0.5 A
		Power consumption	18 W
		Frequency	60 Hz
		Notes	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. The exact input voltage and frequency rating are determined by the specific power adapter part number ordered. Please select the correct power adapter country option.
	Safety	CSA 22.2 No. 60950; EN 60950/IEC 60950; UL 60950	
	Emissions	FCC Rules Part 15, Subpart B Class A; EN 55022; VCCI; ICES-003 (Canada)	
	Immunity	EN	EN 55024, CISPR 24
		ESD	EN 61000-4-2
		Radiated	EN 61000-4-3
		EFT/Burst	EN 61000-4-4

	Surge	EN 61000-4-5
	Conducted	EN 61000-4-6
	Power frequency magnetic field	EN 61000-4-8
	Voltage dips and interruptions	EN 61000-4-11
	Harmonics	EN 61000-3-2
	Flicker	EN 61000-3-3
Management Services	HP ProCurve Manager; Web browser 3-year, 4-hour onsite, 13x5 coverage for hardware (UE256E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UE257E) 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UE258E) 3-year, 24x7 SW phone support, software updates (UE260E) Installation with minimum configuration, system-based pricing (U4826E) Installation with HP-provided configuration, system-based pricing (U4830E)	
	Refer to the HP Web site at: www.procurve.com/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	
Standards and protocols	General Protocols IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3x Flow Control RFC 1534 DHCP/BOOTP Interoperation Network Management IEEE 802.1AB Link Layer Discovery Protocol (LLDP)	
Notes	Use only supported genuine ProCurve mini-GBICs with your switch.	

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