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

Datasheet

HP ProCurve Switch 1800 Series

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.

HP ProCurve Switch 1800 Series

Features and benefits

Industry-leading warranty

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 IEEE 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 HP 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 switch 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.

HP ProCurve Switch 1800 Series

Specifications

HP ProCurve Switch 1800-8G (J9029A)　　　　HP ProCurve Switch 1800-24G (J9028B)

Ports

	HP ProCurve Switch 1800-8G (J9029A)	HP ProCurve Switch 1800-24G (J9028B)
	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: Auto-MDIX; Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only	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: 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)

Physical characteristics

Dimensions	4.58(d) x 7.73(w) x 1.73(h) in. (11.63 x 19.63 x 4.39 cm) (1U height)	6.74(d) x 17.42(w) x 1.73(h) in. (17.12 x 44.25 x 4.39 cm) (1U height)
Weight	1.19 lb. (0.54 kg), Fully loaded	4.32 lb. (1.96 kg), Fully loaded

Memory and processor

	1 MB flash, 64 KB SDRAM, 1 MB RAM/ROM capacity; packet buffer size: 144 KB	2 MB flash, 64 KB SDRAM, 2 MB RAM/ROM capacity; packet buffer size: 500 KB

Mounting

	Horizontal surface mounting only	Mounts in an EIA-standard 19 in. telco racks (hardware included)

Performance

100 Mb Latency	< 3.9 μs (64-byte packets)	< 4.7 μs (64-byte packets)
1000 Mb Latency	< 2.1 μs (64-byte packets)	< 3.0 μs (64-byte packets)
Throughput	up to 11.9 million pps (64-byte packets)	up to 35.7 million pps (64-byte packets)
Switching capacity	16 Gbps	48 Gbps
MAC address table size	8000 entries	8000 entries

Environment

Operating temperature	32ºF to 104ºF (0ºC to 40ºC)	32ºF to 104ºF (0ºC to 40ºC)
Operating relative humidity	10% to 90% @ 104ºF (40ºC), non-condensing	10% to 90% @ 104ºF (40ºC), non-condensing
Non-operating/Storage temperature	-40ºF to 158ºF (-40ºC to 70ºC)	-40ºF to 158ºF (-40ºC to 70ºC)
Non-operating/Storage relative humidity	10% to 90% @ 149ºF (65ºC), non-condensing	10% to 90% @ 149ºF (65ºC), non-condensing
Altitude	up to 10000 ft. (3 km)	up to 10000 ft. (3 km)
Acoustic	Power: 0 dB no fan	Power: 0 dB no fan

Electrical characteristics

Maximum heat dissipation	61 BTU/hr (64 kJ/hr)	92 BTU/hr (97 kJ/hr)
Voltage	100-240 VAC	100-127 / 200-240 VAC
Current	0.5 A	0.8 / 0.4 A
Power consumption	18 W	27 W

Frequency	60 Hz	50 / 60 Hz
Notes	Maximum power rating is the worst-case theoretical maximum power number with fully loaded PoE, 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.	Maximum power rating is the worst-case theoretical maximum power number with fully loaded PoE, 100% traffic, all ports plugged in, and all modules populated.

Safety

	CSA 22.2 No. 60950; EN 60950/IEC 60950; UL 60950	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)	FCC Rules Part 15, Subpart B Class A; EN 55022; VCCI; ICES-003 (Canada)

Immunity

EN	EN 55024, CISPR 24	EN 55024, CISPR 24
ESD	EN 61000-4-2	EN 61000-4-2
Radiated	EN 61000-4-3	EN 61000-4-3
EFT/Burst	EN 61000-4-4	EN 61000-4-4
Surge	EN 61000-4-5	EN 61000-4-5
Conducted	EN 61000-4-6	EN 61000-4-6
Power frequency magnetic field	EN 61000-4-8	EN 61000-4-8
Voltage dips and interruptions	EN 61000-4-11	EN 61000-4-11
Harmonics	EN 61000-3-2	EN 61000-3-2
Flicker	EN 61000-3-3	EN 61000-3-3

Management

	HP ProCurve Manager; Web browser	HP ProCurve Manager; Web browser

Notes

	Use only supported genuine ProCurve mini-GBICs with your switch.	Use only supported genuine ProCurve mini-GBICs with your switch.

Services

	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)	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.	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)

HP ProCurve Switch 1800 Series accessories

HP ProCurve Manager 2.3 (-)

HP ProCurve Switch 1800-24G (J9028B)

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)

For more information

To learn more about HP ProCurve Networking, please visit ProCurve.com