ProCurve Networking
HP Innovation

ProCurve Switch 1400 Series

The ProCurve Switch 1400 series provides plug-and-play simplicity for high-bandwidth connectivity. The Switch 1400 series consists of two unmanaged switches. The ProCurve Switch 1400-24G is a 24-port 10/100/1000 switch with 22 10/100/1000 ports and 2 dual-personality ports. The ProCurve Switch 1400-8G is a small-form-factor switch with 8 10/100/1000 ports. Ideal for deployment in open spaces, both switches feature silent operation via a fanless design.

ProCurve Switch 1400-24G
(J9078A)

ProCurve Switch 1400-8G
(J9077A)

invent

Features and benefits

Connectivity

• **ProCurve/IEEE Auto-MDIX:** automatically adjusts for straight-through or crossover cables on all 10/100/1000 ports

• **Jumbo packet support:** supports up to 9,216 byte frame size to improve performance of large data transfers

Performance

• **High performance:** wire-speed performance provides maximized throughput for all PCs and servers

• **Half-/Full-duplex auto-negotiating capability on every port:** doubles the throughput of every port

Quality of Service (QoS)

• **IEEE 802.1p prioritization:** delivers data to devices by honoring the priority and type of traffic

Ease of use

• **Unmanaged:** provides plug-and-play simplicity

• **10/100/1000 auto-sensing per port:** automatically detects and sets the speed for any 10Base-T, 100Base-TX, or 1000Base-T device

• **Comprehensive LED display with per-port indicators:** provides an at-a-glance view of status, activity, speed, and full-duplex operation

Flexibility

• **Small form factor:** ideal for desktop use; space-efficient for deployment flexibility (1400-8G)

• **Designed with no fan:** enables quiet operation for deployment in open spaces

Industry-leading warranty

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

ProCurve Switch 1400 Series

ProCurve Switch 1400-24G (J9078A)

ProCurve Switch 1400-8G (J9077A)

Specifications

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)	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
Physical characteristics		
Dimensions	6.74(d) x 17.42(w) x 1.73(h) in. (17.12 x 44.25 x 4.39 cm) (1U height)	4.58(d) x 7.73(w) x 1.73(h) in. (11.63 x 19.63 x 4.39 cm) (1U height)
Weight	4.38 lb. (1.99 kg)	1.19 lb. (0.54 kg)
Memory and processor		
	128 KB RAM/ROM capacity; packet buffer size: 500 KB	128 KB RAM/ROM capacity; packet buffer size: 144 KB
Mounting		
	Mounts in an EIA-standard 19 in. telco rack or equipment cabinent (hardware included)	Horizontal surface mounting only
Performance		
	Gbps	Gbps
100 Mb Latency	< 4.7 µs (64-byte packets)	< 3.9 µs (64-byte packets)
1000 Mb Latency	< 3.0 µs (64-byte packets)	< 2.1 µs (64-byte packets)
Throughput	up to 35.7 million pps	up to 11.9 million pps
Switching capacity	48 Gbps	16 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	15% to 95% @ 104ºF (40ºC), non-condensing	15% to 95% @ 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	81 BTU/hr (85 kJ/hr)	61 BTU/hr (64 kJ/hr)
Voltage	100-240 VAC	100-127 / 200-240 VAC
Current	0.75 / 0.4 A	1.0 / 0.8 A
Power consumption	24 W	18 W
Frequency	50 / 60 Hz	50 / 60 Hz

Notes		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	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	IEC 61000-4-2	IEC 61000-4-2
Radiated	IEC 61000-4-3	IEC 61000-4-3
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4
Surge	IEC 61000-4-5	IEC 61000-4-5
Conducted	IEC 61000-4-6	IEC 61000-4-6
Power frequency magnetic field	IEC 61000-4-8	IEC 61000-4-8
Voltage dips and interruptions	IEC 61000-4-11	IEC 61000-4-11
Harmonics	IEC 61000-3-2	IEC 61000-3-2
Flicker	IEC 61000-3-3	IEC 61000-3-3
Notes		
	Use only supported genuine ProCurve mini-GBICs with your switch.	
Standards and Protocols	**General Protocols** IEEE 802.1p Priority	IEEE 802.3x Flow Control

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
• 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

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To learn more, visit www.procurve.com
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