

Overview

Models

HP ProCurve 1410-8G Switch	J9559A
HP ProCurve 1410-16G Switch	J9560A
HP ProCurve 1410-24G Switch	J9561A

Key features

- Unmanaged Layer 2 Gigabit switch
- 8-, 16-, and 24-port models
- Fanless for silent operation
- Two dual-personality mini-GBIC slots (J9561A)
- Industry-leading Lifetime warranty

Product overview

HP ProCurve 1410 Series devices are plug-and-play unmanaged fixed configuration Gigabit Layer 2 switches designed for small and midsize businesses looking for an entry-level, low cost networking solution with a comprehensive Lifetime Warranty. The Series has three models: the HP ProCurve 1410-24G is a 24-port 10/100/1000 switch including 2 dual-personality SFP-based mini-GBIC ports; the HP ProCurve 1410-16G is a 16-port 10/100/1000 switch; the HP ProCurve 1410-8G is a small-form 8-port 10/100/1000 switch. All support low-cost Ethernet copper cabling; one model (J9561A) also supports fiber connectivity. The three switches feature fanless silent operation and can be flexibly deployed – wall-mounted or table top. In addition, the 16 and 24-port switches are rack mountable. They support administration-friendly features such as auto-negotiated port speed and automatic detection of the Ethernet cable type (MDI/MDIX). The switches are supported by HP's leading Lifetime Warranty.

Features and benefits

Industry-leading warranty

- ProCurve lifetime warranty*

Connectivity

- **Auto-MDIX:** automatically adjusts for straight-through or crossover cables on all 10/100 and 10/100/1000 ports
- **Jumbo packet support:** supports up to 9216-byte frame size to improve performance of large data transfers

Performance

- **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 based on the priority and type of traffic

Ease of use

- **Unmanaged:** provides plug-and-play simplicity
- **Comprehensive LED display with per-port indicators:** provides an at-a-glance view of status, activity, speed, and full-duplex operation
- **Flow control:** helps ensure reliable communications during full-duplex operation



Overview

Flexibility

- **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 website at: www.procurve.com/support for details on the support provided and the period during which support is available

* For as long as you own the product, with next-business-day advance replacement (available in most countries). The following hardware products have a five-year hardware warranty for the disk drive and lifetime hardware warranty (for as long as you own the product) for the rest of the module: HP ProCurve ONE Services zl Module, HP ProCurve Threat Management Services zl Module, and HP ProCurve MSM765zl Mobility Controller. 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, HP ProCurve Network Access Controller 800, and HP ProCurve DCM Controller. The following hardware products have a one-year hardware 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, HP ProCurve 1-Port Power Injector, HP ProCurve CNMS Appliances, and HP ProCurve MSM317 Access Device. Standalone software, upgrades, or licenses may have a different warranty duration. For details, refer to the ProCurve Software License, Warranty, and Support booklet at: www.procurve.com/warranty.

Technical Specifications

HP ProCurve 1410-8G Switch (J9559A)

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: Auto-MDIX; Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only	
Physical characteristics	Dimensions	3.8(d) x 6.14(w) x 0.96(h) in. (9.65 x 15.6 x 2.45 cm) (.5U height)
	Weight	.74 lb. (0.34 kg)
Memory and processor	4Kb EEPROM capacity; packet buffer size: 192 KB	
Mounting	Wall, desktop, and undertable mounting	
Performance	100 Mb Latency	< 3.6 μ s (LIFO 64-byte packets)
	1000 Mb Latency	< 1.2 μ s (LIFO 64-byte packets)
	Throughput	up to 11.9 million pps (64-byte packets)
	Switching capacity	16 Gbps
	MAC address table size	4,096 entries
Environment	Operating temperature	32°F to 104°F (0°C to 40°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 90% @ 149°F (65°C), non-condensing
	Altitude	up to 10,000 ft. (3 km)
	Acoustic	Power: 0 dB No Fan
Electrical characteristics	Maximum heat dissipation	41 BTU/hr (43.26 kJ/hr)
	Voltage	100-240 VAC
	Current	1.0 A
	Maximum power rating	12 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. 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 60950-1	
Emissions	FCC Rules Part 15, Subpart B Class A	
Immunity	Generic	EN 55024, CISPR 22
	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3
	EFT/Burst	IEC 61000-4-4
	Surge	IEC 61000-4-5
	Conducted	IEC 61000-4-6

Technical Specifications

	Power frequency magnetic field	IEC 61000-4-8
	Voltage dips and interruptions	IEC 61000-4-11
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UF795E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UF796E) Installation with minimum configuration, system-based pricing (U4826E) Installation with HP-provided configuration, system-based pricing (U4830E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UR816E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UR817E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UR818E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UR819E) 3 Yr 6 hr Call-to-Repair Onsite (UW386E) 4 Yr 6 hr Call-to-Repair Onsite (UW387E) 5 Yr 6 hr Call-to-Repair Onsite (UW388E)	
	Refer to the HP website 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 (applies to all products in series)	General protocols	IEEE 802.1p Priority IEEE 802.3x Flow Control

HP ProCurve 1410-16G Switch (J9560A)

Ports	16 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: Auto-MDIX; Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only	
Physical characteristics	Dimensions	4.41(d) x 8.21(w) x 1.73(h) in. (11.2 x 20.85 x 4.4 cm) (1U height)
	Weight	1.43 lb. (0.65 kg)
Memory and processor	512 KB flash; packet buffer size: 512 KB	
Mounting	Mounts in an EIA-standard 19 in. telco rack (hardware included); wall, desktop, and undertable mounting	
Performance	100 Mb Latency	< 8.0 μ s (LIFO 64-byte packets)
	1000 Mb Latency	< 3.6 μ s (LIFO 64-byte packets)
	Throughput	up to 23.8 million pps (64-byte packets)
	Switching capacity	32 Gbps
	MAC address table size	8,000 entries
Environment	Operating temperature	32°F to 104°F (0°C to 40°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 90% @ 149°F (65°C), non-condensing

Technical Specifications

Electrical characteristics	Altitude	up to 10,000 ft. (3 km)
	Acoustic	Power: 0 dB No Fan
	Maximum heat dissipation	44 BTU/hr (46.42 kJ/hr)
	Voltage	100-240 VAC
	Current	1.1 A
	Maximum power rating	13 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. 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; UL 60950-1; IEC 60950-1; EN 60950-1	
Emissions	FCC Rules Part 15, Subpart B Class A	
Immunity	Generic	EN 55024, CISPR 22
	EN	EN 55024, CISPR 24
	ESD	IEC 61000-4-2
	Radiated	IEC 61000-4-3
	EFT/Burst	IEC 61000-4-4
	Surge	IEC 61000-4-5
	Conducted	IEC 61000-4-6
	Power frequency magnetic field	IEC 61000-4-8
	Voltage dips and interruptions	IEC 61000-4-11
	Harmonics	EN 61000-3-2, IEC 61000-3-2
Flicker	EN 61000-3-3, IEC 61000-3-3	
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UF797E)	
	3-year, 4-hour onsite, 24x7 coverage for hardware (UF798E)	
	Installation with minimum configuration, system-based pricing (U4826E)	
	Installation with HP-provided configuration, system-based pricing (U4830E)	
	4-year, 4-hour onsite, 13x5 coverage for hardware (UR820E)	
	4-year, 4-hour onsite, 24x7 coverage for hardware (UR821E)	
	5-year, 4-hour onsite, 13x5 coverage for hardware (UR822E)	
	5-year, 4-hour onsite, 24x7 coverage for hardware (UR823E)	
	3 Yr 6 hr Call-to-Repair Onsite (UW389E)	
	4 Yr 6 hr Call-to-Repair Onsite (UW390E)	
5 Yr 6 hr Call-to-Repair Onsite (UW391E)		

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Technical Specifications

Standards and protocols (applies to all products in series)	General protocols IEEE 802.1p Priority IEEE 802.3x Flow Control
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HP ProCurve 1410-24G Switch (J9561A)

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: 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	6.65(d) x 13.23(w) x 1.73(h) in. (16.9 x 33.6 x 4.4 cm) (1U height)
	Weight	2.98 lb. (1.35 kg)
Memory and processor	512 KB flash; packet buffer size: 512 KB	
Mounting	Mounts in an EIA-standard 19 in. telco rack (hardware included); wall, desktop, and undertable mounting	
Performance	100 Mb Latency	< 8.0 μ s (LIFO 64-byte packets)
	1000 Mb Latency	< 3.6 μ s (LIFO 64-byte packets)
	Throughput	up to 35.7 million pps (64-byte packets)
	Switching capacity	48 Gbps
	MAC address table size	8,000 entries
Environment	Operating temperature	32°F to 104°F (0°C to 40°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 90% @ 149°F (65°C), non-condensing
	Altitude	up to 10,000 ft. (3 km)
	Acoustic	Power: 0 dB No Fan
Electrical characteristics	Maximum heat dissipation	75 BTU/hr (79.13 kJ/hr)
	Voltage	100-127 / 200-240 VAC
	Current	0.3 / 0.2 A
	Maximum power rating	22 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; UL 60950-1; IEC 60950-1; EN 60950-1	
Emissions	FCC Rules Part 15, Subpart B Class A	
Immunity	Generic	EN 55024, CISPR 22
	EN	EN 55024, CISPR 24

Technical Specifications

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

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

Services

3-year, 4-hour onsite, 13x5 coverage for hardware (UF797E)
3-year, 4-hour onsite, 24x7 coverage for hardware (UF798E)
Installation with minimum configuration, system-based pricing (U4826E)
Installation with HP-provided configuration, system-based pricing (U4830E)
4-year, 4-hour onsite, 13x5 coverage for hardware (UR820E)
4-year, 4-hour onsite, 24x7 coverage for hardware (UR821E)
5-year, 4-hour onsite, 13x5 coverage for hardware (UR822E)
5-year, 4-hour onsite, 24x7 coverage for hardware (UR823E)
3 Yr 6 hr Call-to-Repair Onsite (UW389E)
4 Yr 6 hr Call-to-Repair Onsite (UW390E)
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Standards and protocols

(applies to all products in series)

General protocols

IEEE 802.1p Priority
IEEE 802.3x Flow Control

Accessories

HP ProCurve 1410 Switch Series accessories

Cables

NEW HP .5m Multi-mode OM3 LC/LC Optical Cable	AJ833A
NEW HP 1m Multi-mode OM3 LC/LC Optical Cable	AJ834A
NEW HP 2m Multi-mode OM3 LC/LC Optical Cable	AJ835A
HP ProCurve 1410-24G Switch (J9561A)	
HP ProCurve Gigabit-SX-LC Mini-GBIC	J4858C
HP ProCurve Gigabit-LX-LC Mini-GBIC	J4859C
HP ProCurve Gigabit-LH-LC Mini-GBIC	J4860C
HP ProCurve 100-FX SFP-LC Transceiver	J9054B
HP ProCurve 100-BX-D SFP-LC Transceiver	J9099B
HP ProCurve 100-BX-U SFP-LC Transceiver	J9100B
HP ProCurve 1000-BX-D SFP-LC Mini-GBIC	J9142B
HP ProCurve 1000-BX-U SFP-LC Mini-GBIC	J9143B
NEW HP 5m Multi-mode OM3 LC/LC Optical Cable	AJ836A
NEW HP 15m Multi-mode OM3 LC/LC Optical Cable	AJ837A
NEW HP 30m Multi-mode OM3 LC/LC Optical Cable	AJ838A
NEW HP 50m Multi-mode OM3 LC/LC Optical Cable	AJ839A

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