

QuickSpecs

HP ProCurve Switch 2500 Series

Overview

HP ProCurve Switch 2524



HP ProCurve Switch 2512



Models

HP ProCurve Switch 2524

J4813A

HP ProCurve Switch 2512

J4812A

Key features

- Managed Layer 2 feature set
- 10/100 Connectivity with 12 or 24 ports
- Two Gigabit copper or fiber transceiver slots
- Proven reliability
- Industry-leading warranty

Introduction

The HP ProCurve Switch 2500 Series consists of Layer 2 managed 12- and 24-port switches. The switches include two Gigabit transceiver slots for copper or fiber connectivity, including 100Base-FX. The 2512 and 2534 switches have a proven track record of reliability and feature an industry-leading warranty and next-day advance replacement.

Features and Benefits

Industry-leading warranty*

Performance

- 9.6 Gbps switch fabric integrated on chip: high-performance switch design with a non-blocking architecture

Resiliency and high availability

- **IEEE 802.3ad Link Aggregation Control Protocol (LACP) and ProCurve trunking:** support a single trunk with up to four links (ports)
- **Spanning Tree Protocol (IEEE 802.1D):** provides redundant links while preventing network loops
- **IEEE 802.1w Rapid Convergence Spanning Tree Protocol:** increases network uptime through faster recovery from failed links

Manageability

- **RMON and XRMON:** provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events
- **IEEE 802.1AB Link Layer Discovery Protocol (LLDP):** automated device discovery protocol for easy mapping by network management applications



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- **Friendly port names:** allow assignment of descriptive names to ports
- **ProCurve Auto-MDIX:** automatically adjusts for straight-through or crossover cables on all 10/100 ports
- **Web interface:** allows configuration of the switch from any Web browser on the network

Layer 2 switching

- **VLAN support and tagging:** support up to 30 port-based VLANs and dynamic configuration of IEEE 802.1Q VLAN tagging, providing security between workgroups
- **GARP VLAN Registration Protocol:** allows automatic learning and dynamic assignment of VLANs

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:** control port-based access for authentication and accountability
- **RADIUS/TACACS+:** eases switch management security administration by using a password authentication server

Convergence

- **IP multicast snooping and data-driven IGMP:** automatically prevents flooding of IP multicast traffic
- **NEW LLDP Lite:** allows for discovery and network topology mapping via HP ProCurve Manager
- **Stacking capability:** single IP address management for a virtual stack of up to 16 switches, including the HP ProCurve Switch 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)

- **IEEE 802.1p prioritization:** delivers data to devices based on the priority and type of traffic

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, HP ProCurve Network Access Controller 800, and HP ProCurve DCM Controller. The following hardware mobility 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, and HP ProCurve CNMS Appliances. Disk drives in the HP ProCurve ONE Services zl Modules have a five year hardware warranty. 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.

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Services

ProCurve Switch 2524	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
ProCurve Switch 2512	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

NOTE: 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.

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Technical Specifications

ProCurve Switch 2524 (J4813A)	Ports	24 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Media Type: Auto-MDIX; Duplex: half or full 2 open transceiver slots 1 RS-232C DB-9 console port												
	Dimensions	8.0(d) x 17.4(w) x 1.8(h) in. (20.32 x 44.2 x 4.57 cm) (1U height)												
	Weight	6.0 lb. (2.72 kg), Fully loaded												
	Memory and processor	ARM7TDMI @ 62.5 MHz, 2 MB flash, 26 KB RAM/ROM capacity; packet buffer size: 6 MB												
	Mounting	Mounts in a standard 19 in. rack (hardware included)												
	Performance	<table border="0"> <tr> <td style="padding-right: 20px;">Latency</td> <td>< 10 μs (LIFO)</td> </tr> <tr> <td>Throughput</td> <td>6.6 million pps (64-byte packets)</td> </tr> <tr> <td>Switching capacity</td> <td>9.6 Gbps</td> </tr> <tr> <td>Routing table size</td> <td>4,096 entries</td> </tr> </table>	Latency	< 10 μ s (LIFO)	Throughput	6.6 million pps (64-byte packets)	Switching capacity	9.6 Gbps	Routing table size	4,096 entries				
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	Safety	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												
	Immunity	<table border="0"> <tr> <td style="padding-right: 20px;">Generic</td> <td>EN 55024, CISPR 24</td> </tr> <tr> <td>ESD</td> <td>IEC 61000-4-2; 4 kV CD, 8 kV AD</td> </tr> <tr> <td>Radiated</td> <td>IEC 61000-4-3; 3 V/m</td> </tr> <tr> <td>EFT/Burst</td> <td>IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)</td> </tr> </table>	Generic	EN 55024, CISPR 24	ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD	Radiated	IEC 61000-4-3; 3 V/m	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)				
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Management	HP ProCurve Manager Plus; HP 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
	IP Multicast	RFC 3376 IGMPv3
	MIBs	RFC 1213 MIB II
		RFC 1493 Bridge MIB
		RFC 2613 SMON MIB
	Network Management	RFC 2674 802.1p and IEEE 802.1Q Bridge MIB
RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)		
RFC 3164 BSD syslog Protocol SNMPv1/v2c XRMON		
Security	IEEE 802.1X Port Based Network Access Control RFC 1492 TACACS+ SSHv1 Secure Shell	

ProCurve Switch 2512 (J4812A)	Ports	12 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX); Media Type: Auto-MDIX; Duplex: half or full 2 open transceiver slots 1 RS-232C DB-9 console port		
	Dimensions	8.0(d) x 17.4(w) x 1.8(h) in. (20.32 x 44.2 x 4.57 cm) (1U height)		
	Weight	6.0 lb. (2.72 kg), Fully loaded		
	Memory and processor	ARM7TDMI @ 62.5 MHz, 2 MB flash, 26 KB RAM/ROM capacity; packet buffer size: 6 MB		
	Mounting	Mounts in a standard 19 in. rack (hardware included)		
	Performance	Latency	< 10 μ s (LIFO)	
		Throughput	4.8 million pps (64-byte packets)	
		Switching capacity	9.6 Gbps	
		Routing table size	4,096 entries	
		Environment	Operating temperature	32° to 131°F (0° to 55°C)
		Operating relative humidity	15% to 95% @ 104°F (40°C), non-condensing	
		Non-operating/Storage temperature	-40° to 158°F (-40° to 70°C)	
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	Shock and vibration	HP759, HP760 (similar to EN 60068, IEC 68)
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	Voltage	100–127 VAC/200–240 VAC
	Current	2.4 A/1.2 A
	Power consumption	36 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	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	
Immunity	Generic	EN55024, CISPR 24
	ESD	IEC 61000-4-2, 4 kV CD, 8 kV AD
	Radiated	IEC 61000-4-3, 3V/m
	EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
Management	HP ProCurve Manager Plus; HP ProCurve Manager (included); command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)	
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	RFC 3164 BSD syslog Protocol	
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	XRMON	
Security	IEEE 802.1X Port Based Network Access Control	
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Accessories

HP ProCurve 100/1000-T Transceiver	J4834A
HP ProCurve 100-FX SC Transceiver	J4853A
HP ProCurve Gigabit-SX Transceiver	J4131B
HP ProCurve Gigabit-LX Transceiver	J4132A
HP ProCurve Switch Gigabit Stacking Kit	J4116A
HP ProCurve Manager 2.3	-

To learn more, visit www.hp.com/go/procurve

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