

ProCurve Switch 2500 Series

The ProCurve Switch 2500 series consists of low-cost, stackable, managed 24- and 12-port switches with 10/100 auto-sensing per port and 2 open transceiver slots for Gigabit or 100Base-FX. ProCurve Switches 2524 and 2512 offer ProCurve/IEEE Auto-MDIX on all 10/100 ports, as well as high-availability features. ProCurve Switches 2524 and 2512 are ideal for low-cost migration to 10/100 managed switching with uplinks.



ProCurve Switch 2512 (J4812A)



ProCurve Switch 2524 (J4813A)



ProCurve Switch 2500 Series

Features and benefits

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 4 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

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
- **TACACS+:** eases switch management security administration by using a password authentication server

Quality of Service (QoS)

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

Manageability

- **RMON and XRMON:** provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events
- **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

Convergence

- **IP multicast snooping and data-driven IGMP:** automatically prevents flooding of IP multicast traffic
- **Stacking capability:** single IP address management for a virtual stack of up to 16 switches, including the ProCurve 2500 series, 2510 series, 2600 series, 2800 series, 2810 series, 2900 series, 3400cl series, 3500yl series, 6108, 6200yl, 6400cl series, 4200vl series, and 4100gl series
- **Lifetime warranty:** for as long as you own the product, with next-business-day advance replacement (available in most countries)

Services

- 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)
- Installation with minimum configuration, system-based pricing (U4826E)
- Installation with HP-provided configuration, system-based pricing (U4830E)

Check www.hp.com/go/procurveservices for part numbers and service-level descriptions. For details about services and response times in your area, please contact your local HP sales office.

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Specifications



ProCurve Switch 2512 (J4812A)



ProCurve Switch 2524 (J4813A)

Ports	12 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX) 2 open transceiver slots 1 RS-232C DB-9 console port	24 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX) 2 open transceiver slots 1 RS-232C DB-9 console port
Physical characteristics		
Dimensions (D x W x H)	20.32 x 44.2 x 4.57 cm (8.0 x 17.4 x 1.8 in.) (1U height)	20.32 x 44.2 x 4.57 cm (8.0 x 17.4 x 1.8 in.) (1U height)
Weight (fully loaded)	2.7 kg (6.0 lb.)	2.7 kg (6.0 lb.)
Memory and processor		
Processor type and speed	ARM7TDMI @ 62.5 MHz	ARM7TDMI @ 62.5 MHz
Packet buffer size	6 MB	6 MB
RAM/ROM capacity	26 MB	26 MB
Flash capacity	2 MB	2 MB
Mounting	Mounts in a standard 19 in. rack (hardware included)	Mounts in a standard 19 in. rack (hardware included)
Performance		
Latency	<10 μ s (LIFO)	<10 μ s (LIFO)
Throughput	4.8 million pps (64-byte packets)	6.6 million pps (64-byte packets)
Switching capacity	9.6 Gbps	9.6 Gbps
Routing table size	4,096 entries	4,096 entries
Environment		
Operating temperature	0°C to 55°C (32°F to 131°F)	0°C to 55°C (32°F to 131°F)
Operating relative humidity	15% to 95% @ 40°C (104°F), non-condensing	15% to 95% @ 40°C (104°F), non-condensing
Non-operating/Storage temperature	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)
Non-operating/Storage relative humidity	15% to 95% @ 65°C (149°F), non-condensing	90% @ 65°C (149°F), non-condensing
Shock and vibration	HP759, HP760 (similar to EN 60068, IEC 68)	HP759, HP760 (similar to EN 60068, IEC 68)
Electrical characteristics		
Maximum BTUs	123 BTU/hr	123 BTU/hr
Voltage	100–127 VAC/200–240 VAC	100–127 VAC/200–240 VAC
Current	2.4 A/1.2 A	2.4 A/1.2 A
Power consumption	36 W	36 W
Frequency	50/60 Hz	50/60 Hz
Safety	cUL (CSA 950); EN 60950/IEC 60950; NOM-019-SCFI-1994; UL 1950 3rd edition	
Emissions	FCC Class A; EN55022/CISPR-22 Class A; VCCI Class A	FCC Class A; EN55022/CISPR-22 Class A; VCCI Class A
Immunity		
Generic	EN55024, CISPR 24	EN55024, CISPR 24
ESD	IEC 61000-4-2; 4 kV CD, 8 kV AD	IEC 61000-4-2; 4 kV CD, 8 kV AD
Radiated	IEC 61000-4-3; 3V/m	IEC 61000-4-3; 3V/m
EFT/Burst	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
Management	ProCurve Manager (included); ProCurve Manager Plus; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)	
Standards and protocols	IEEE 802.3x Flow Control; RFC 3376 IGMPv1/v2/v3; IEEE 802.1D Spanning Tree; IEEE 802.1w Rapid Convergence Spanning Tree; IEEE 802.3ad Link Aggregation Control Protocol; RFC 1492 TACACS+; IEEE 802.1X Network Login; IEEE 802.1Q VLANs; IEEE 802.1Q GVRP; IEEE 802.1p Priority; SNMPv1/v2c; RFC 1493 Bridge MIB; RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm), and 9 (events); RFC 3164 Syslog; XRMON; RFC 2613 SMON; RFC 2674 IEEE 802.1p and IEEE 802.1Q Bridge MIB	

ProCurve Switch 2500 Series Modules

Accessories

ProCurve 100/1000-T Transceiver (J4834A)

ProCurve 100-FX SC Transceiver (J4853A)

ProCurve Gigabit SX Transceiver (J4131B)

ProCurve Gigabit LX Transceiver (J4132A)

ProCurve Switch Gigabit Stacking Kit (J4116A)