

# HP ProCurve Switch 2500 Series



HP ProCurve Switch 2524 (J4813A)



HP ProCurve Switch 2512 (J4812A)

The HP ProCurve Switch 2500 Series are 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. The HP ProCurve Switches 2524 and 2512 offer HP Auto-MDIX on all 10/100 and 100/1000 ports and high-availability features. The HP ProCurve Switches 2524 and 2512 are ideal for low-cost migration to 10/100 managed switching with uplinks.

## Features and benefits

- **9.6 Gbps switch fabric integrated on-chip:** high-performance switch design with a non-blocking architecture
- **HP Auto-MDIX:** automatically adjusts for straight-through or crossover cables on all 10/100 and 100/1000 ports
- **Stacking capability:** single IP address management for a virtual stack of up to 16 switches, including the 2500 series, 2600 series, 2800 series, 4000m, 6108, 8000m, and 4100gl series
- **RMON, XRMON, and SMON:** provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events
- **Web interface:** allows you to configure the switch from any Web browser on the network
- **802.3ad Link Aggregation Control Protocol (LACP) and HP trunking:** support a single trunk with up to 4 links (ports)
- **VLAN support and tagging:** support up to 30 port-based VLANs and dynamic configuration of 802.1Q VLAN tagging, providing security between workgroups



# HP ProCurve Switch 2500 Series

## Features and benefits (*continued*)

- **Group VLAN Registration Protocol (GVRP):** allows automatic learning and dynamic assignment of VLANs
- **IP multicast (IGMPv3):** prevents flooding of IP multicast traffic
- **Port security:** prevents unauthorized access using MAC address lockdown
- **Spanning Tree Protocol:** provides redundant links while preventing network loops
- **IEEE 802.1p prioritization:** delivers data to devices based on the priority and type of traffic
- **TACACS+:** eases administration of switch management security by using a password authentication server
- **Cisco Fast EtherChannel® (FEC):** supports Cisco's proprietary FEC trunking protocol
- **Rapid Convergence Spanning Tree Protocol (802.1w):** increases network uptime through faster recovery from failed links
- **802.1X and RADIUS network login:** control port-based access for authentication and accountability
- **Cisco Discovery Protocol (CDP):** enables real-time mapping of nodes to switch ports
- **Lifetime warranty:** for as long as you own the product, with next-business-day advance replacement (available in most countries)

## Accessories

**HP ProCurve Switch Gigabit Stacking Kit (J4116A)** See page 63 for details.

**HP ProCurve Gigabit-SX Transceiver (J4131B)** See page 63 for details.

**HP ProCurve Gigabit-LX Transceiver (J4132A)** See page 63 for details.

**HP ProCurve 100/1000-T Transceiver (J4834A)** See page 64 for details.

**HP ProCurve 100-FX SC Transceiver (J4853A)** See page 64 for details.

## Services

- 3-year, 4-hour onsite, 13 x 5 coverage, 13 x 5 phone support, for hardware (H5484A/E)
  - 3-year, 4-hour onsite, 24 x 7 coverage, 24 x 7 phone support, for hardware (U6300A/E)
  - 3-year, 4-hour onsite, 24 x 7 coverage for hardware, 24 x 7 software phone support (U6299A/E)
  - Installation with minimum configuration, system-based pricing (U4826A/E)
  - Installation with HP-provided configuration, system-based pricing (U4830A/E)
- For details about services and response times in your area, please contact your local HP sales office.

# HP ProCurve Switch 2500 Series



## Specifications

|   | HP ProCurve Switch 2524 (J4813A)  | HP ProCurve Switch 2512 (J4812A)   |
|---|---|--|
| <b>Ports</b>                            | 24 RJ-45 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX)<br>2 open transceiver slots<br>1 RS-232C DB-9 console port  | 12 RJ-45 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX)<br>2 open transceiver slots<br>1 RS-232C DB-9 console port                               |
| <b>Physical characteristics</b>         |   |  |
| Dimensions                              | 44.2 x 20.32 x 4.57 cm (17.4 x 8 x 1.8 in.)<br>(1U height)  | 44.2 x 20.32 x 4.57 cm (17.4 x 8 x 1.8 in.)<br>(1U height)   |
| Weight (fully loaded)                   | 2.7 kg (6 lb.)  | 2.7 kg (6 lb.)   |
| <b>Memory and processor</b>             |   |  |
| Module                                  | 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   |
| <b>Mounting</b>                         | Mounts in a standard 19 in. rack (hardware included)  | Mounts in a standard 19 in. rack (hardware included)   |
| <b>Performance</b>                      |   |  |
| Latency                                 | <10 $\mu$ s (LIFO)  | <10 $\mu$ s (LIFO)   |
| Throughput                              | 6.6 mpps (64-byte packets)  | 4.8 mpps (64-byte packets)   |
| Switch fabric                           | 9.6 Gbps  | 9.6 Gbps   |
| Address table size                      | 4,096 entries   | 4,096 entries  |
| <b>Environment</b>                      |   |  |
| 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 | 90% @ 65°C (149°F), non-condensing  | 15% to 95% @ 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)   |
| <b>Electrical characteristics</b>       |   |  |
| Maximum BTUs                            | 123 BTU/hr  | 123 BTU/hr   |
| Voltage                                 | 100-127 VAC/200-240 VAC   | 100-127 VAC/200-240 VAC  |
| Current                                 | 2.4A/1.2A   | 2.4A/1.2A  |
| Power                                   | 36W   | 36W  |
| Frequency                               | 50/60 Hz  | 50/60 Hz   |
| <b>Safety</b>                           | cUL (CSA 950); EN 60950/IEC 950;<br>NOM-019-SCFI-1994; UL 1950 3rd edition  | cUL (CSA 950); EN 60950/IEC 950;<br>NOM-019-SCFI-1994; UL 1950 3rd edition   |
| <b>Emissions</b>                        | FCC Class A; EN 55022/CISPR 22 Class A;<br>VCCI Class A   | FCC Class A; EN 55022/CISPR 22 Class A;<br>VCCI Class A  |
| <b>Immunity</b>                         |   |  |
| Generic                                 | EN 50082-1  | EN 50082-1   |
| ESD                                     | IEC/EN 61000-4-2, 4 kV CD, 8 kV AD  | IEC/EN 61000-4-2, 4 kV CD, 8 kV AD   |
| Radiated                                | IEC/EN 61000-4-3, 3V/m  | IEC/EN 61000-4-3, 3V/m   |
| EFT/Burst                               | IEC/EN 61000-4-4; 1.0 kV (power line),<br>0.5 kV (signal line)  | IEC/EN 61000-4-4; 1.0 kV (power line),<br>0.5 kV (signal line)   |
| <b>Management</b>                       | HP ProCurve Manager (included);<br>HP ProCurve Manager Plus;<br>command line interface; Web browser;<br>configuration menu; out-of-band management<br>(serial RS-232C)  | HP ProCurve Manager (included);<br>HP ProCurve Manager Plus;<br>command line interface; Web browser;<br>configuration menu; out-of-band management<br>(serial RS-232C) |
| <b>Standards and protocols</b>          | IEEE 802.3x Flow Control; RFC 3376 IGMP v1/v2/v3; IEEE 802.1D Spanning Tree; IEEE 802.3ad Link Aggregation Control Protocol; Cisco Fast EtherChannel® (FEC); RFC 1492 TACACS+; IEEE 802.1X Network Login; IEEE 802.1p Priority; IEEE 802.1Q VLANs; IEEE 802.1Q GVRP; SNMPv1/v2c; Cisco Discovery Protocol (CDP); RFC 1493 Bridge MIB; RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm), and 9 (events); XRMON; RFC 2613 SMON; RFC 2674 802.1p and IEEE 802.1Q Bridge MIB, RFC 3164 (Syslog) |  |