

# HP ProCurve Switch 2600 Series



HP ProCurve Switch 2650 (J4899A)



HP ProCurve Switch 2650-PWR (J8165A)



HP ProCurve Switch 2626 (J4900A)



HP ProCurve Switch 2626-PWR (J8164A)



The HP ProCurve Switch 2600 Series is a collection of low-cost, stackable, multi-layer, managed 50- or 26-port switches with 48 or 24 auto-sensing 10/100 ports and 2 dual-personality ports for 10/100/1000 or mini-GBIC connectivity. The HP Switch 2650-PWR and 2626-PWR are IEEE 802.3af compliant for Power over Ethernet and provide up to 15.4W per port. A redundant and external power supply is also available as an accessory.

# HP ProCurve Switch 2600 Series

## Features and benefits

- **Power over Ethernet (IEEE 802.3af) compliant (Switch 2650-PWR/Switch 2626-PWR):** provides up to 15.4W per port to power IP phones, wireless access points, Web cameras, and more (2650-PWR may require an external power supply to provide full 15.4W for all 48 PoE-ready ports)
- **13.6 Gbps (2650 and 2650-PWR)/9.6 Gbps (2626 and 2626-PWR) backplane:** wire-speed non-blocking architecture for low latency throughput
- **Optional external redundant power supply (Switch 2650-PWR/Switch 2626-PWR):** provides uninterrupted power; sold as an accessory
- **Dual-personality functionality:** two 10/100/1000 ports or mini-GBIC slots for optional fiber connectivity such as Gigabit-SX, -LX, or -LH
- **Basic IP routing:** enables automatic routing with up to 16 external routes—including one default route—in IP networks
- **Rapid Convergence Spanning Tree Protocol (802.1w):** increases network uptime through faster recovery from failed links
- **802.3ad Link Aggregation Control Protocol (LACP) and HP trunking:** support up to 6 trunks, each with up to 4 links (ports) per trunk; trunking across modules is supported
- **Cisco Fast EtherChannel® (FEC):** supports Cisco's proprietary FEC trunking protocol
- **802.1X and RADIUS network login:** control port-based access for authentication and accountability
- **Port security:** prevents unauthorized access using MAC address lockdown
- **TACACS+:** eases switch management security administration by using a password authentication server
- **Secure Shell (SSHv2):** encrypts all transmitted data for secure remote access over IP networks
- **Secure Sockets Layer (SSL):** encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch
- **VLAN:** supports up to 30 port-based VLANs, GVRP, and 802.1Q VLAN tagging
- **Traffic prioritization (802.1p):** allows real-time traffic classification into 8 priority levels mapped to 4 queues
- **RMON and SMON:** provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events
- **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
- **HP Auto-MDIX:** automatically adjusts for straight-through or crossover cables on all 10/100 and 10/100/1000 ports
- **Group VLAN Registration Protocol (GVRP):** allows automatic learning and dynamic assignment of VLANs
- **Cisco Discovery Protocol (CDP):** enables real-time mapping of nodes to switch ports
- **Friendly port names:** allow assignment of descriptive names to ports
- **Secure access to manage the switches:** all access methods—CLI, GUI, or MIB—are securely encrypted through SSHv2, SSL, and/or SNMPv3
- **Lifetime warranty:** for as long as you own the product, with next-business-day advance replacement (available in most countries)

# HP ProCurve Switch 2600 Series

## Accessories

**HP ProCurve Gigabit-SX-LC Mini-GBIC (J4858A)** See page 62 for details.

**HP ProCurve Gigabit-LX-LC Mini-GBIC (J4859A)** See page 62 for details.

**HP ProCurve Gigabit-LH-LC Mini-GBIC (J4860A)** See page 62 for details.

**HP ProCurve 600 Redundant and External Power Supply (J8168A) (2650-PWR and 2626-PWR only)**  
See page 65 for details.

**HP ProCurve 610 External Power Supply (J8169A) (2650-PWR and 2626-PWR only)** See page 65 for details.

## Services

### HP ProCurve Switch 2650:

- 3-year, 4-hour onsite, 13 x 5 coverage, 13 x 5 phone support, for hardware (U9270A/E)
- 3-year, 4-hour onsite, 24 x 7 coverage, 24 x 7 phone support, for hardware (U9271A/E)
- 3-year, 4-hour onsite, 24 x 7 coverage for hardware, 24 x 7 software phone support (U6301A/E)
- Installation with minimum configuration, system-based pricing (U4826A/E)
- Installation with HP-provided configuration, system-based pricing (U4830A/E)

### HP ProCurve Switch 2650-PWR:

- 3-year, 4-hour onsite, 13 x 5 coverage, 13 x 5 phone support, for hardware (H4496A/E)
- 3-year, 4-hour onsite, 24 x 7 coverage, 24 x 7 phone support, for hardware (H2893A/E)
- 3-year, 4-hour onsite, 24 x 7 coverage for hardware, 24 x 7 software phone support (U6319A/E)
- Installation with minimum configuration, system-based pricing (U4826A/E)
- Installation with HP-provided configuration, system-based pricing (U4830A/E)

### HP ProCurve Switch 2626:

- 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)

### HP ProCurve Switch 2626-PWR:

- 3-year, 4-hour onsite, 13 x 5 coverage, 13 x 5 phone support, for hardware (U2855A/E)
- 3-year, 4-hour onsite, 24 x 7 coverage, 24 x 7 phone support, for hardware (U2856A/E)
- 3-year, 4-hour onsite, 24 x 7 coverage for hardware, 24 x 7 software phone support (U6304A/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 2600 Series



## Specifications

	HP ProCurve Switch 2650 (J4899A)	HP ProCurve Switch 2650-PWR (J8165A)
<b>Ports</b>	48 RJ-45 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX) 2 dual-personality ports—each port can be used as either an RJ-45 10/100/1000 port or an open mini-GBIC slot (for use with mini-GBIC transceivers)	48 RJ-45 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX) 2 dual-personality ports—each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; 802.3u Type 100Base-TX; 802.3ab 1000Base-T Gigabit Ethernet) or an open mini-GBIC slot (for use with mini-GBIC transceivers)
<b>Physical characteristics</b>		
Dimensions	43.99 x 32.51 x 4.45 cm (17.32 x 12.8 x 1.75 in.) (1U height)	45.8 x 44.25 x 4.45 cm (18.03 x 17.42 x 1.75 in.) (1U height)
Weight (fully loaded)	4.4 kg (9.78 lb.)	7.34 kg (16.31 lb.)
<b>Memory and processor</b>		
Flash capacity	16 MB	16 MB
<b>Mounting</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only
<b>Performance</b>		
Latency	<12 $\mu$ s (LIFO)	<12 $\mu$ s (LIFO)
Throughput	10.1 mpps	10.1 mpps
Switching capacity	13.6 Gbps	13.6 Gbps
Address table size	8,000 entries	8,000 entries
<b>Environment</b>		
Operating temperature	0°C to 55°C (32°F to 131°F)	0°C to 50°C (32°F to 122°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	15% to 95% @ 65°C (149°F), non-condensing
Altitude	Up to 4.6 km (15,091 ft.)	Up to 4.6 km (15,091 ft.)
<b>Electrical characteristics</b>		
Maximum BTUs	341 BTU/hr	2,288 BTU/hr
Voltage	100–120 VAC/200–240 VAC	100–120 VAC/200–240 VAC
Current	1.5A	6.4A
Power	100W	631W
Frequency	50/60 Hz	50/60 Hz
<b>Safety</b>	cUL (CSA 950); EN 60950/IEC 950; NOM-019-SCFI-1994; UL 1950 3rd edition	cUL (CSA 950); EN 60950/IEC 950; NOM-019-SCFI-1994; UL 1950 3rd edition
<b>Emissions</b>	FCC Class A; EN 55022/CISPR 22 Class A; VCCI Class A	FCC Class A; EN 55022/CISPR 22 Class A; VCCI Class A
<b>Immunity</b>		
EN	55024/CISPR 24	55024/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)
Surge	IEC 61000-4-5, 1 kV/2 kV AC	IEC 61000-4-5, 1 kV/2 kV AC
Conducted	IEC 61000-4-6, 3V	IEC 61000-4-6, 3V
Power frequency magnetic field	IEC 61000-4-8, 1A/m, 50 or 60 Hz	IEC 61000-4-8, 1A/m, 50 or 60 Hz
Voltage dips and interruptions	IEC 61000-4-11, >95% reduction, 0.5 period; 30% reduction, 25 periods	IEC 61000-4-11, >95% reduction, 0.5 period; 30% reduction, 25 periods
Harmonics	EN 61000-3-2/IEC 61000-3-2	EN 61000-3-2/IEC 61000-3-2
Flicker	EN 61000-3-3/IEC 61000-3-3	EN 61000-3-3/IEC 61000-3-3
<b>Management</b>	HP ProCurve Manager (included); HP ProCurve Manager Plus; command line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)	HP ProCurve Manager (included); HP ProCurve Manager Plus; command line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)
<b>Standards and protocols</b>	RFC 783 TFTP; RFC 951 BootP; RFC 1542 BootP; RFC 854 Telnet; RFC 768 UDP; RFC 792 ICMP; RFC 793 TCP; RFC 826 ARP; RFC 2030 Simple Network Time Protocol; IEEE 802.3x Flow Control; RFC 2236 IGMPv1/v2; IEEE 802.1D Spanning Tree; IEEE 802.1w Rapid Convergence Spanning Tree; IEEE 802.3ad Link Aggregation Control Protocol; IEEE 802.3af PoE; Cisco Fast EtherChannel (FEC); SSHv1/v2 Secure Shell; Secure Sockets Layer (SSL); IEEE 802.1X Network Login; IEEE 802.1p Priority; IEEE 802.1Q GVRP; SNMPv1/v2c/v3; Cisco Discovery Protocol (CDP); HTML and telnet management; RFC 1493 Bridge MIB; RFC 1213 MIB II; RFC 2096 IP Forwarding Table MIB; RFC 2737 Entity MIB; RFC 2863 Evolution of Interface; RFC 2665 Ethernet MIB; RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm), and 9 (events); RFC 2021 RMON probe configuration (RMON v2); RFC 2668 802.3 MAU MIB; RFC 2613 SMON; RFC 2674 802.1p and IEEE 802.1Q Bridge MIB; RFC 2618 RADIUS Client MIB; RFC 2620 RADIUS Accounting MIB	

# HP ProCurve Switch 2600 Series



## Specifications

	HP ProCurve Switch 2626 (J4900A)	HP ProCurve Switch 2626-PWR (J8164A)
<b>Ports</b>	24 RJ-45 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX) 2 dual-personality ports—each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; 802.3u Type 100Base-TX; 802.3ab 1000Base-T Gigabit Ethernet) or an open mini-GBIC slot (for use with mini-GBIC transceivers)	24 RJ-45 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX) 2 dual-personality ports—each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; 802.3u Type 100Base-TX; 802.3ab 1000Base-T Gigabit Ethernet) or an open mini-GBIC slot (for use with mini-GBIC transceivers)
<b>Physical characteristics</b>		
Dimensions	44 x 32.5 x 4.4 cm (17.32 x 12.8 x 1.73 in.) (1U height)	45.8 x 44.25 x 4.45 cm (18.03 x 17.42 x 1.75 in.) (1U height)
Weight (fully loaded)	4.15 kg (9.15 lb.)	5.18 kg (11.5 lb.)
<b>Memory and processor</b>		
Flash capacity	16 MB	16 MB
<b>Mounting</b>	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only
<b>Performance</b>		
Latency	<12 $\mu$ s (LIFO)	<12 $\mu$ s (LIFO)
Throughput	Up to 6.6 mpps	Up to 6.6 mpps
Switching capacity	9.6 Gbps	9.6 Gbps
Address table size	8,000 entries	8,000 entries
<b>Environment</b>		
Operating temperature	0°C to 55°C (32°F to 131°F)	0°C to 50°C (32°F to 122°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	15% to 95% @ 65°C (149°F), non-condensing
Altitude	Up to 4.6 km (15,091 ft.)	Up to 4.6 km (15,091 ft.)
<b>Electrical characteristics</b>		
Maximum BTUs	341 BTU/hr	2,288 BTU/hr
Voltage	100–120 VAC/200–240 VAC	100–120 VAC/200–240 VAC
Current	1.5A	6.4A
Power	100W	631W
Frequency	50/60 Hz	50/60 Hz
<b>Safety</b>	cUL (CSA 950); EN 60950/IEC 950; NOM-019-SCFI-1994; UL 1950 3rd edition	cUL (CSA 950); EN 60950/IEC 950; NOM-019-SCFI-1994; UL 1950 3rd edition
<b>Emissions</b>	FCC Class A; EN 55022/CISPR 22 Class A; VCCI Class A	FCC Class A; EN 55022/CISPR 22 Class A; VCCI Class A
<b>Immunity</b>		
EN	55024/CISPR 24	55024/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)
Surge	IEC 61000-4-5, 1 kV/2 kV AC	IEC 61000-4-5, 1 kV/2 kV AC
Conducted	IEC 61000-4-6, 3V	IEC 61000-4-6, 3V
Power frequency magnetic field	IEC 61000-4-8, 1A/m, 50 or 60 Hz	IEC 61000-4-8, 1A/m, 50 or 60 Hz
Voltage dips and interruptions	IEC 61000-4-11, >95% reduction, 0.5 period; 30% reduction, 25 periods	IEC 61000-4-11, >95% reduction, 0.5 period; 30% reduction, 25 periods
Harmonics	EN 61000-3-2/IEC 61000-3-2	EN 61000-3-2/IEC 61000-3-2
Flicker	EN 61000-3-3/IEC 61000-3-3	EN 61000-3-3/IEC 61000-3-3
<b>Management</b>	HP ProCurve Manager (included); HP ProCurve Manager Plus; command line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)	HP ProCurve Manager (included); HP ProCurve Manager Plus; command line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)
<b>Standards and protocols</b>	RFC 783 TFTP; RFC 951 BootP; RFC 1542 BootP; RFC 854 Telnet; RFC 768 UDP; RFC 792 ICMP; RFC 793 TCP; RFC 826 ARP; RFC 2030 Simple Network Time Protocol; IEEE 802.3x Flow Control; RFC 2236 IGMPv1/v2; IEEE 802.1D Spanning Tree; IEEE 802.1w Rapid Convergence Spanning Tree; IEEE 802.3ad Link Aggregation Control Protocol; IEEE 802.3af PoE; Cisco Fast EtherChannel (FEC); SSHv1/v2 Secure Shell; Secure Sockets Layer (SSL); IEEE 802.1X Network Login; IEEE 802.1p Priority; IEEE 802.1Q GVRP; SNMPv1/v2c/v3; Cisco Discovery Protocol (CDP); HTML and telnet management; RFC 1493 Bridge MIB; RFC 1213 MIB II; RFC 2096 IP Forwarding Table MIB; RFC 2737 Entity MIB; RFC 2863 Evolution of Interface; RFC 2665 Ethernet MIB; RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm), and 9 (events); RFC 2021 RMON probe configuration (RMON v2); RFC 2668 802.3 MAU MIB; RFC 2613 SMON; RFC 2674 802.1p and IEEE 802.1Q Bridge MIB; RFC 2618 RADIUS Client MIB; RFC 2620 RADIUS Accounting MIB	