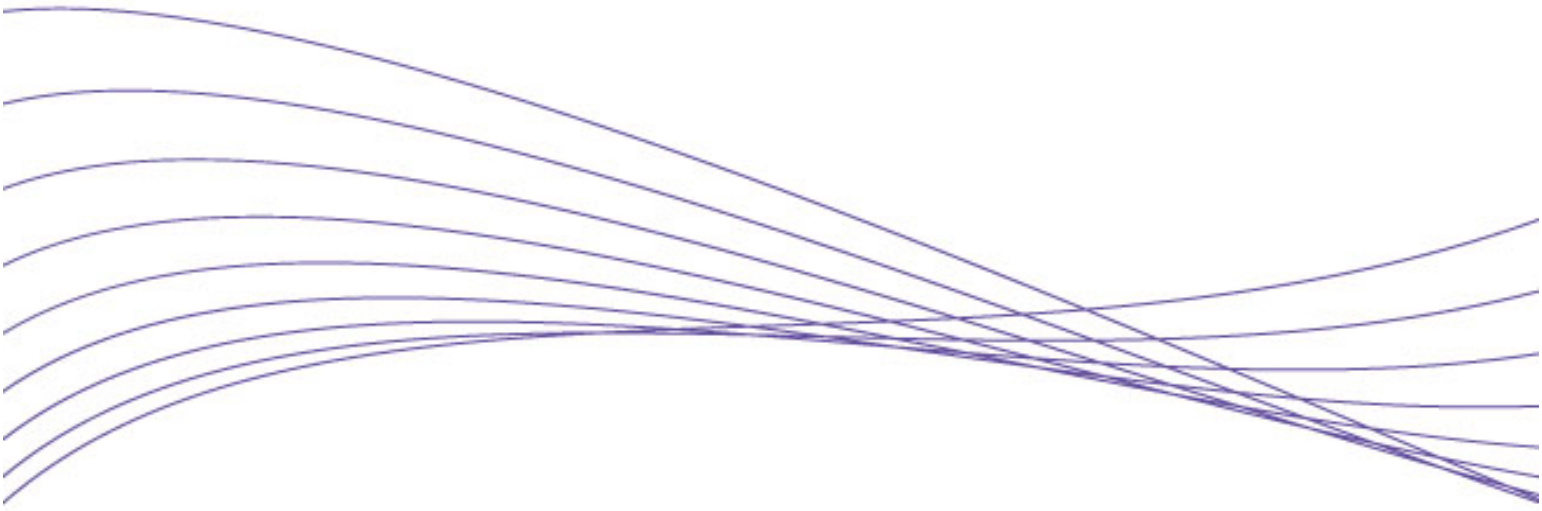
ProCurve Networking
HP Innovation

ProCurve Switch 2600-8-PWR with Gigabit Uplink

The ProCurve Switch 2600-8-PWR is a fully managed stackable switch with 8 auto-sensing 10/100 PoE ports and one dual-personality gigabit uplink. With integrated PoE and enterprise-level software features in a low-density form factor, this switch is more cost-effective and has better functionality to support wide deployment of wireless access points. It is also ideal for small workgroups or remote offices that require general network connectivity and PoE for IP phones and access points. The switch can provide 15.4 W of power per port simultaneously on all 8 10/100 ports and supports IEEE 802.3af-compliant and most of Cisco's pre-standard PoE devices.

ProCurve Switch 2600-8-PWR
with Gigabit Uplink (J8762A)



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Features and benefits

- **Pre-standard PoE support:** detects and provides power to most of Cisco's pre-standard PoE devices; see list of support devices in product's FAQ on www.procurve.com.
- **Link Layer Discovery Protocol (802.1ab):** a standard discovery protocol that allows a device to advertise and receive management data from adjacent devices.
- **13.6 Gbps (ProCurve 2650 and 2650-PWR)/9.6 Gbps (ProCurve 2626, 2626-PWR, 2600-8-PWR) backplane:** wire-speed non-blocking architecture for low-latency throughput
- **Dual-personality functionality:** two 10/100/1000 ports or mini-GBIC slots for optional fiber connectivity such as Gigabit-SX, -LX, or -LH
- **Power over Ethernet (IEEE 802.3af) compliant (ProCurve 2650-PWR/ProCurve 2626-PWR/ProCurve 2600-8-PWR):** provides up to 15.4 W per port to power IP phones, wireless access points, Web cameras, and more (ProCurve 2650-PWR may require an external power supply to provide full 15.4 W for all 48 PoE-ready ports)
- **Optional external redundant power supply (ProCurve 2650-PWR/ProCurve 2626-PWR/ProCurve 2600-8-PWR):** provides uninterrupted power; sold as an accessory
- **Basic IP routing:** enables automatic routing to the connected VLANs and up to 16 static routes--including one default route--in IP networks
- **IP multicast (IGMPv3 snooping):** automatically prevents flooding of IP multicast traffic
- **802.3ad Link Aggregation Control Protocol (LACP) and ProCurve trunking:** support up to 6 trunks, each with up to 4 links (ports) per trunk
- **RMON:** provides advanced monitoring and reporting capabilities for statistics, history, alarms, and events
- **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
- **Secure Shell (SSHv2):** encrypts all transmitted data for secure CLI 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
- **Secure access to manage the switches:** all access methods--CLI, GUI, or MIB--are securely encrypted through SSHv2, SSL, and/or SNMPv3
- **VLAN support and tagging:** support complete 802.1Q (4,096 VLAN IDs) and 253 VLANs simultaneously
- **Group VLAN Registration Protocol (GVRP):** allows automatic learning and dynamic assignment of VLANs
- **802.1w Rapid Convergence Spanning Tree Protocol :** increases network uptime through faster recovery from failed links
- **802.1s Multiple Spanning Tree:** provides high link availability in multiple VLAN environments by allowing multiple spanning trees
- **ProCurve/IEEE Auto-MDIX:** automatically adjusts for straight-through or crossover cables on all 10/100/1000 ports
- **Friendly port names:** allow assignment of descriptive names to ports
- **Dual flash images:** provide independent primary and secondary OS files for backup while upgrading
- **Source port filtering:** allows only specified ports to communicate with each other
- **Web-based authentication:** similar to 802.1X, provides a browser-based environment to authenticate clients that do not support the 802.1X supplicant
- **MAC address lockout:** prevents configured

particular MAC addresses from connecting to the network

- **Secure FTP:** allows secure file transfer to/from the switch (protects against unwanted file downloads or unauthorized copying of switch configuration file)
- **Port security:** prevents unauthorized access using MAC address lockdown
- **IP Lockdown:** only allows traffic from a specific IP address to be forwarded
- **Layer 4 prioritization:** enables prioritization based on TCP/UDP port numbers
- **Class of Service (CoS):** sets 802.1p priority tag based on IP address, IP Type of Service (ToS), L3 protocol, TCP/UDP port number, source port, and DiffServ
- **Traffic prioritization (802.1p):** allows real-time traffic classification into 8 priority levels mapped to 4 queues
- **Troubleshooting:** ingress/egress port monitoring enables network problem-solving (ProCurve Switch 2626 and 2626-PWR only)
- **Stacking capability:** single IP address management for a virtual stack of up to 16 switches, including the ProCurve 2500 series, 2600 series, 2800 series, 3400cl series, 6108, 6400cl series, and 4100gl series

Services

- 3-year, 4-hour onsite, 13x5 coverage for hardware (UD537E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware (UD538E)
- 3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support (UD539E)

ProCurve Switch 2600-8-PWR with Gigabit Uplink

Specifications

Ports
8 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX)
Supports a maximum of 8 10/100 ports.
1 RS-232C DB-9 console port
1 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)

Physical characteristics
Dimensions
8.86(d) x 17.44(w) x 1.73(h) in. (22.5 x 44.3 x 4.39 cm) (1U height)
Weight
7.5 lb. (3.4 kg)

Memory and processor
Processor: Motorola PowerPC MPC8245 @ 266 MHz processor
Flash Capacity: 8 MB
SDRAM: 32 MB

Mounting
Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only

Performance
Latency:
- < 12 µs (LIFO)

Throughput: up to 6.6 million pps
Routing/switching capacity: 9.6 Gbps
Routing table size: 8,000 entries

Environment
Operating
- Temperature: 32°F to 122°F (0°C to 50°C)
- Relative humidity: 15% to 95% at 104°F (40°C), non-condensing
- Altitude: up to 15,091 ft (4.6 km)

Non-operating/Storage
- Temperature: -40°F to 158°F (-40°C to 70°C)
- Relative humidity: 15% to 95% at 149°F (65°C), non-condensing

Acoustic: DIN 45635T.19 per ISO 7779 57 dB

Electrical characteristics
Max Heat Dissipation: 649 BTU/hr, inlcuding the switch and attached PoE devices; Switch Only: 228 BTU/hr.
Voltage: 100-120 VAC/200-240 VAC
Current: 3.3 A /1.7 A
Power consumption: 190 W
Frequency: 50/60 Hz

Safety
CSA 22.2 No. 950;
cUL (CSA 950);
EN 60950/IEC 60950;
NOM-019-SCFI-1994;
UL 1950 3rd edition;
UL 60950

Emissions
FCC Class A; EN 55022/CISPR-22 Class A; VCCI Class A

Immunity
Generic: EN55024:2001, CISPR 24:2002
EN: EN55024:2001, CISPR 24:2002
ESD: IEC 61000-4-2:2001; 4 kV CD, 8 kV AD
Radiated: IEC 61000-4-3:2002; 3V/m
EFT/Burst: IEC 61000-4-4:2001; 1.0 kV (power line), 0.5 kV (signal line)
Surge: IEC 61000-4-5:2001; 1 kV/2 kV AC
Conducted: IEC 61000-4-6:2001; 3V
Power frequency magnetic field: IEC 61000-4-8:2001; 1A/m, 50 or 60 Hz
Voltage dips and interruptions: IEC 61000-4-11:2001; >95% reduction, 0.5 period; 30% reduction, 25 periods
Harmonics: EN61000-3-2:2000, IEC61000-3-2:2001
Flicker: EN61000-3-3:2001, IEC61000-3-3:2001

Management
ProCurve Manager Plus;
ProCurve Manager (Included);
Command line interface; Web browser; Configuration menu;
Out-of-band management (serial RS-232C)

Standards and protocols
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 SNTP;
IEEE 802.3x Flow Control;
RFC 2236 IGMP v1/v2/v3;
IEEE 802.1D Spanning Tree;
IEEE 802.1w Rapid Convergence Spanning Tree;
IEEE 802.3ad Link Aggregation Control Protocol;
RFC 1492 TACACS+;
SSHv1/SSHv2 Secure Shell;
Secure Sockets Layer (SSL);
IEEE 802.1X Network Login;
802.3af Power over Ethernet;
IEEE 802.1Q GVRP;
IEEE 802.1p Priority;
SNMPv1/v2c/v3;
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

ProCurve Switch 2600-8-PWR with Gigabit Uplink

Accessories

ProCurve Gigabit-LH-LC Mini-GBIC (J4860B)
with one 1000Base-LH port

Ports
1 1000Base-LH port (No IEEE standard exists for 1550 nm optics)
Connector: LC
Duplex: full

Physical characteristics
Dimensions: 2.167 (d) x .604 (w) x .463 (h) in. (5.5 x 1.53 x 1.18 cm)
Weight: 0.04 lb. (0.02 kg)

Cabling
low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1

Maximum distance
70 km

ProCurve Gigabit-LX-LC Mini-GBIC (J4859B)
with one 1000Base-LX port

Ports
1 1000Base-LX port (IEEE 802.3z Type 1000Base-LX)
Connector: LC
Duplex: full

Physical characteristics
Dimensions: 2.24 (d) x 0.54 (w) x 0.486 (h) in. (5.69 x 1.37 x 1.23 cm)
Weight: 0.04 lb. (0.02 kg)

Cabling
Either single mode or multimode 62.5/125 µm or 50/125 µm (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively
low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1

Maximum distance
10 km (single mode) or 550 m (multimode)

Notes
(a mode conditioning patch cord may be needed in some multimode fiber installations)

ProCurve Gigabit-SX-LC Mini-GBIC (J4858B)
with one 1000Base-SX port

Ports
1 1000Base-SX port (IEEE 802.3z Type 1000Base-SX)
Connector: LC
Duplex: full

Physical characteristics
Dimensions: 2.24 (d) x 0.54 (w) x 0.486 (h) in. (5.69 x 1.37 x 1.23 cm)
Weight: 0.04 lb. (0.02 kg)

Cabling
62.5/125 µm or 50/125 µm (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively

Maximum distance
220 m (62.5 µm core diameter, 160 MHz/km bandwidth)
275 m (62.5 µm core diameter, 200 MHz/km bandwidth)
500 m (50 µm core diameter, 400 MHz/km bandwidth)
550 m (50 µm core diameter, 500 MHz/km bandwidth)

ProCurve Switch 2600-8-PWR with Gigabit Uplink

ProCurve 600 Redundant External Power Supply (J8168A)
The ProCurve 600 Redundant and External Power Supply (RPS/EPS) has 6 RPS ports and 2 EPS ports and supplies backup and Power over Ethernet power.

Ports
6 RSP Ports
Each port can provide redundant +12 V power to a connected switch; only one port can provide power at a given time
2 EPS Ports
Provides +50 Vdc external PoE power to up to two switch devices; provides max of 408 W at full power to one device, and half power (204 W each) if connected to two devices

Physical characteristics
Dimensions: 12.83(d) x 17.44(w) x 1.73(h) in. (32.59 x 44.3 x 4.39 cm)
1U height
Weight: 11.78 lb. (5.3 kg)
fully loaded

Mounting
1U rack-mountable and wall-mountable enclosure using standard mounting hardware

Environment
Operating temperature: 32°F to 131°F (0°C to 55°C)
Operating relative humidity: 15% to 95% at 104°F (40°C) , noncondensing
Non-operating/Storage temperature: -40°F to 158°F (-40°C to 70°C)
Non-operating/Storage relative humidity: 15% to 95% at 149°F (65°C) , noncondensing
Altitude: up to 15091 ft (4.6 km)
Acoustic: Noise emission LwA=59.2 dB at virtual workspace, according to DIN 45635 T.19

Electrical characteristics
Description: The unit automatically adjusts to any voltage between 100-240 V and either 50 or 60 Hz
Voltage: 100 - 240 VAC
Current: 9 A / 5 A
RPS Power: 180 W
PoE Power: 408 W
Frequency: 50 /60 Hz

Safety
CSA 22.2 No. 60950; EN 60950/IEC 60950; UL 60950

Emissions
FCC Class A; FCC Part 15.107; CISPR-22; VCCI; ICES-003 (Canada)

Immunity

Management
Unmanaged power supply; provides information via LEDs or through port interfaces of attached devices

To learn more, visit www.procurve.com

Information is subject to change without notice