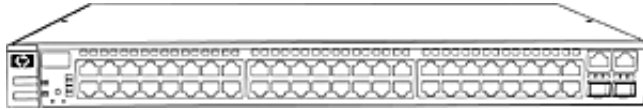


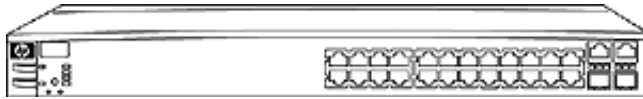
Overview



HP ProCurve Switch 2650



HP ProCurve Switch 2650-PWR



HP ProCurve Switch 2626



HP ProCurve Switch 2626-PWR

HP ProCurve Switch 2600-8-PWR with Gigabit Uplink

Models

HP ProCurve Switch 2650	J4899C
HP ProCurve Switch 2626	J4900C
HP ProCurve Switch 2600-8-PWR with Gigabit Uplink	J8762A
HP ProCurve Switch 2650-PWR	J8165A
HP ProCurve Switch 2626-PWR	J8164A

Key features

- Access layer PoE switch
- Layer 2 and Layer 3 lite feature set
- Scalable 10/100 connectivity
- Gigabit fiber uplinks

Introduction

The ProCurve Switch 2600 series is a collection of low-cost, stackable, multi-layer, managed switches with 48, 24, or 8 auto-sensing 10/100 ports and dual-personality ports for 10/100/1000 or mini-GBIC connectivity. The ProCurve Switch 2650-PWR, 2626-PWR, and 2600-8-PWR are IEEE 802.3af-compliant for Power over Ethernet and provide up to 15.4 W per port. A redundant external power supply is also available as an accessory.

Features and Benefits

Connectivity

- **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** (HP 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 (HP ProCurve 2650-PWR may require an external power supply to provide full 15.4 W for all 48 PoE-ready ports)

Overview

Performance

- **13.6 Gbps** (HP ProCurve 2650 and 2650-PWR)/9.6 Gbps (HP ProCurve 2626, 2626-PWR, 2600-8-PWR) **backplane**: wire-speed non-blocking architecture for low-latency throughput

Resiliency and high availability

- **IEEE 802.3ad Link Aggregation Control Protocol (LACP) and ProCurve trunking**: support for up to 6 trunks, each with up to 8 links (ports) per trunk; trunking across modules is supported
- **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
- **IEEE 802.1s Multiple Spanning Tree**: provides high link availability in multiple VLAN environments by allowing multiple spanning trees
- **Optional external redundant power supply** (HP ProCurve 2650-PWR, ProCurve 2626-PWR, ProCurve 2600-8-PWR): provides uninterrupted power; sold as an accessory

Layer 2 switching

- **VLAN support and tagging**: support complete IEEE 802.1Q (4,096 VLAN IDs) and 253 VLANs simultaneously
- **GARP VLAN Registration Protocol**: allows automatic learning and dynamic assignment of VLANs

Layer 3 routing

- **Basic IP routing**: enables automatic routing to the connected VLANs and up to 16 static routes—including one default route—in IP networks

Security

- **Port security**: allows access only to specified MAC addresses, which can be learned or specified by the administrator
- **MAC address lockout**: prevents configured particular MAC addresses from connecting to the network
- **Dynamic IP lockdown**: works with DHCP protection to block traffic from unauthorized hosts, preventing IP source address spoofing
- **Dynamic ARP protection**: blocks ARP broadcasts from unauthorized hosts, preventing eavesdropping or theft of network data
- **Multiple user authentication methods**:
 - **IEEE 802.1X**: industry-standard method of user authentication using an IEEE 802.1X supplicant on the client in conjunction with a RADIUS server
 - **Web-based authentication**: similar to IEEE 802.1X, provides a browser-based environment to authenticate clients that do not support the IEEE 802.1X supplicant
 - **MAC-based authentication**: client is authenticated with the RADIUS server based on the MAC address of the client
- **NEW Authentication flexibility**:
 - **Multiple IEEE 802.1X users per port**: provides authentication of up to 8 IEEE 802.1X users per port; prevents user "piggybacking" on another user's IEEE 802.1X authentication
- **Secure FTP**: allows secure file transfer to/from the switch; protects against unwanted file downloads or unauthorized copying of switch configuration file
- **RADIUS/TACACS+**: eases switch management security administration by using a password authentication server
- **Source-port filtering**: allows only specified ports to communicate with each other
- **Secure Shell (SSHv2)**: encrypts all transmitted data for secure, remote command-line interface (CLI) access over IP networks
- **Secure Sockets Layer (SSL)**: encrypts all HTTP traffic, allowing secure access to the browser-based management GUI in the switch
- **Switch management logon security**: can require either RADIUS or TACACS+ authentication for secure switch CLI logon

Convergence



Overview

- **IEEE 802.1AB Link Layer Discovery Protocol (LLDP):** automated device discovery protocol for easy mapping by network management applications
- **LLDP-MED (Media Endpoint Discovery):** a standard extension of LLDP that stores values for parameters such as QoS and VLAN to automatically configure network devices such as IP phones

Quality of Service (QoS)

- **Traffic prioritization (IEEE 802.1p):** allows real-time HP ProCurve Switch 2600 Series traffic classification into 8 priority levels mapped to 4 queues
- **Class of Service (CoS):** sets IEEE 802.1p priority tag based on IP address, IP Type of Service (ToS), L3 protocol, TCP/UDP port number, source port, and DiffServ
- **Layer 4 prioritization:** enables prioritization based on TCP/UDP port numbers

Manageability

- **RMON:** provides advanced monitoring and reporting capabilities for statistics, history, alarms, and events
- **Friendly port names:** allow assignment of descriptive names to ports
- **Auto-MDIX:** automatically adjusts for straight-through or crossover cables on all 10/100/1000 ports
- **Dual flash images:** provide independent primary and secondary operating system files for backup while upgrading
- **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
- **Find-Fix-and-Inform:** finds and fixes common network problems automatically, then informs administrator
- **Troubleshooting:** ingress/egress port monitoring enables network problem-solving (HP ProCurve Switch 2626 and 2626-PWR only)
- **Software updates:** free downloads from the Web

Services

ProCurve Switch 2650	3-year, 4-hour onsite, 13x5 coverage for hardware	H5481E
	3-year, 4-hour onsite, 24x7 coverage for hardware	U6303E
	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support	U6302E
	3-year, 24x7 SW phone support, software updates	UE261E
	Installation with minimum configuration, system-based pricing	U4826E
	Installation with HP-provided configuration, system-based pricing	U4830E
ProCurve Switch 2650-PWR	3-year, 4-hour onsite, 13x5 coverage for hardware	H4496E
	3-year, 4-hour onsite, 24x7 coverage for hardware	H2893E
	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support	U6319E
	3-year, 24x7 SW phone support, software updates	UE264E
	Installation with minimum configuration, system-based pricing	U4826E
	Installation with HP-provided configuration, system-based pricing	U4830E
ProCurve Switch 2626	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



Overview

ProCurve Switch 2626-PWR	3-year, 4-hour onsite, 13x5 coverage for hardware	U2855E
	3-year, 4-hour onsite, 24x7 coverage for hardware	U2856E
	3-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone support	U6304E
	3-year, 24x7 SW phone support, software updates	UE262E
	Installation with minimum configuration, system-based pricing	U4826E
	Installation with HP-provided configuration, system-based pricing	U4830E
<hr/>		
ProCurve Switch 2600-8-PWR with Gigabit Uplink	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
	3-year, 24x7 SW phone support, software updates	UF793E
	Installation with minimum configuration, system-based pricing	U4826E
	Installation with HP-provided configuration, system-based pricing	U4830E

Technical Specifications

HP ProCurve Switch 2650 Ports
(J4899C)

48 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 dual-personality ports;
each port can be used as either an RJ-45 10/100/1000 port
(IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-TX;
IEEE 802.3ab 1000Base-T Gigabit Ethernet)
or an open mini-GBIC slot (for use with mini-GBIC transceivers)

1 RS-232C DB-9 console port

Physical characteristics	Dimensions (D x W x H)	12.8 x 17.32 x 1.75 in. (32.51 x 43.99 x 4.45 cm) (1U height)
	Weight (fully loaded)	9.78 lb. (4.4 kg)
Memory and processor	Processor type and speed	Motorola PowerPC MPC8245 @ 266 MHz
	Flash capacity	8 MB
	SDRAM	32 MB SDRAM
Mounting	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only	
Performance	Latency	< 13.3 μ s (LIFO)
	Throughput	Up to 10.1 million pps
	Routing/Switching capacity	13.6 Gbps
	MAC address table size	8,000 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)
	Non-operating/Storage relative humidity	15% to 95% @ 149°F (65°C), non-condensing
	Altitude	up to 15000 ft. (4.6 km)
	Acoustic	Power: 50 dB; DIN 45635T.19 per ISO 7779
Electrical characteristics	Maximum heat dissipation	342 BTU/hr (360.81 kJ/hr)
	Voltage	100-240 VAC
	Current	1.5 A
	Power consumption	100 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	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; VCCI Class A; EN 55022/CISPR 22 Class A	
Immunity	Generic	EN 55024, CISPR 24

Technical Specifications

	EN	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)
	Surge	IEC 61000-4-5; 1 kV/2 kV AC
	Conducted	IEC 61000-4-6; 3 V
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management		HP ProCurve Manager Plus; HP ProCurve Manager (included); command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)
Services		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.
Standards and protocols	Device Management	HTML and telnet management
	General Protocols	IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1s Multiple Spanning Trees IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3af Power over Ethernet IEEE 802.3x Flow Control RFC 768 UDP RFC 783 TFTP Protocol (revision 2) RFC 792 ICMP RFC 793 TCP RFC 826 ARP RFC 854 TELNET RFC 951 BOOTP RFC 1542 BOOTP Extensions RFC 2030 Simple Network Time Protocol (SNTP) v4 RFC 3046 DHCP Relay Agent Information Option
	IP Multicast	RFC 2236 IGMPv2
	MIBs	RFC 1213 MIB II RFC 1493 Bridge MIB RFC 2021 RMONv2 MIB RFC 2096 IP Forwarding Table MIB RFC 2613 SMON MIB

Technical Specifications

RFC 2618 RADIUS Client MIB
RFC 2665 Ethernet-Like-MIB
RFC 2668 802.3 MAU MIB
RFC 2674 802.1p and IEEE 802.1Q Bridge MIB
RFC 2737 Entity MIB (Version 2)
RFC 2863 The Interfaces Group MIB

Network Management

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)
RFC 3164 BSD syslog Protocol
ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)
SNMPv1/v2c/v3

Security

IEEE 802.1X Port Based Network Access Control
RFC 1492 TACACS+
RFC 2138 RADIUS Authentication
RFC 2866 RADIUS Accounting
Secure Sockets Layer (SSL)
SSHv1/SSHv2 Secure Shell

HP ProCurve Switch 2650-PWR (J8165A)	Ports	48 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 dual-personality ports-each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-TX; IEEE 802.3ab 1000Base-T Gigabit Ethernet) or an open mini- GBIC slot (for use with mini-GBIC transceivers) 1 RS-232C DB-9 console port
	Physical characteristics	Dimensions (D x W x H) 18.03 x 17.42 x 1.75 in. (45.8 x 44.25 x 4.45 cm) (1U height) Weight (fully loaded) 16.31 lb. (7.34 kg)
	Memory and processor	Processor type and speed Motorola PowerPC MPC8245 @ 266 MHz 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 μ s (LIFO) Throughput Up to 10.1 million pps Routing/Switching capacity 13.6 Gbps MAC address table size 8,000 entries
	Environment	Operating temperature 32° to 122°F (0° to 50°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)

Technical Specifications

	Non-operating/Storage relative humidity	15% to 95% @ 149°F (65°C), non-condensing
	Altitude	up to 15000 ft. (4.6 km)
	Acoustic	Power: 53 dB; DIN 45635T.19 per ISO 7779
Electrical characteristics	Maximum heat dissipation	2155 BTU/hr (2273.53 kJ/hr)
	Voltage	100–120 VAC/200–240 VAC
	Current	7.5 / 3.5 A
	Power consumption	631 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. PoE Power is the power supplied by the internal power supply, this may be supplemented with the use of an External Power Supply (EPS).	
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; EN55022/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	EN 61000-3-2:2000, IEC 61000-3-2:2001
	Flicker	EN 61000-3-3:2001, IEC 61000-3-3:2001
Management	HP ProCurve Manager Plus; HP ProCurve Manager (included); command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)	
Services	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.	
Standards and protocols	Device Management HTML and telnet management	
	General Protocols IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1s Multiple Spanning Trees	

Technical Specifications

IEEE 802.1w Rapid Reconfiguration of Spanning Tree
IEEE 802.3ad Link Aggregation Control Protocol (LACP)
IEEE 802.3af Power over Ethernet
IEEE 802.3x Flow Control
RFC 768 UDP
RFC 783 TFTP Protocol (revision 2)
RFC 792 ICMP
RFC 793 TCP
RFC 826 ARP
RFC 854 TELNET
RFC 951 BOOTP
RFC 1542 BOOTP Extensions
RFC 2030 Simple Network Time Protocol (SNTP) v4
RFC 3046 DHCP Relay Agent Information Option

IP Multicast

RFC 2236 IGMPv2

MIBs

RFC 1213 MIB II
RFC 1493 Bridge MIB
RFC 2021 RMONv2 MIB
RFC 2096 IP Forwarding Table MIB
RFC 2613 SMON MIB
RFC 2618 RADIUS Client MIB
RFC 2665 Ethernet-Like-MIB
RFC 2668 802.3 MAU MIB
RFC 2674 802.1p and IEEE 802.1Q Bridge MIB
RFC 2737 Entity MIB (Version 2)
RFC 2863 The Interfaces Group MIB

Network Management

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)
RFC 3164 BSD syslog Protocol
ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)
SNMPv1/v2c/v3

Security

IEEE 802.1X Port Based Network Access Control
RFC 1492 TACACS+
RFC 2138 RADIUS Authentication
RFC 2866 RADIUS Accounting
Secure Sockets Layer (SSL)
SSHv1/SSHv2 Secure Shell

HP ProCurve Switch 2626 Ports
(J4900C)

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
1 RS-232C DB-9 console port

Technical Specifications

		2 dual-personality ports; each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-TX; IEEE 802.3ab 1000Base-T Gigabit Ethernet) or an open mini-GBIC slot (for use with mini-GBIC transceivers)
Physical characteristics	Dimensions (D x W x H)	12.8 x 17.32 x 1.73 in. (32.51 x 43.99 x 4.39 cm) (1U height)
	Weight (fully loaded)	9.15 lb. (4.12 kg)
Memory and processor	Processor type and speed	Motorola PowerPC MPC8245 @ 266 MHz
	Flash capacity	8 MB
	SDRAM	32 MB SDRAM
Mounting	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only	
Performance	Latency	<13.3 μ s (LIFO)
	Throughput	Up to 6.6 million pps
	Routing/Switching capacity	9.6 Gbps
	MAC address table size	8,000 entries
Environment	Operating temperature	32°F to 122°F (0°C to 50°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)
	Non-operating/Storage relative humidity	15% to 95% @ 149°F (65°C), non-condensing
	Altitude	up to 15000 ft. (4.6 km)
	Acoustic	Power: 50 dB; DIN 45635T.19 per ISO 7779
Electrical characteristics	Maximum heat dissipation	342 BTU/hr (360.81 kJ/hr)
	Voltage	100-240 VAC
	Current	1.5 A
	Power consumption	100 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	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; EN55022/CISPR-22 Class A; VCCI Class A	
Immunity	Generic	EN 55024, CISPR 24
	EN	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)

Technical Specifications

	Surge	IEC 61000-4-5; 1 kV/2 kV AC
	Conducted	IEC 61000-4-6; 3 V
	Power frequency magnetic field	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
	Voltage dips and interruptions	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN 61000-3-2, IEC 61000-3-2
	Flicker	EN 61000-3-3, IEC 61000-3-3
Management	HP ProCurve Manager Plus; HP ProCurve Manager (included); command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)	
Services	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.	
Standards and protocols	Device Management	HTML and telnet management
	General Protocols	IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1s Multiple Spanning Trees IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3af Power over Ethernet IEEE 802.3x Flow Control RFC 768 UDP RFC 783 TFTP Protocol (revision 2) RFC 792 ICMP RFC 793 TCP RFC 826 ARP RFC 854 TELNET RFC 951 BOOTP RFC 1542 BOOTP Extensions RFC 2030 Simple Network Time Protocol (SNTP) v4 RFC 3046 DHCP Relay Agent Information Option
	IP Multicast	RFC 2236 IGMPv2
	MIBs	RFC 1213 MIB II RFC 1493 Bridge MIB RFC 2021 RMONv2 MIB RFC 2096 IP Forwarding Table MIB RFC 2613 SMON MIB RFC 2618 RADIUS Client MIB RFC 2665 Ethernet-Like-MIB RFC 2668 802.3 MAU MIB RFC 2674 802.1p and IEEE 802.1Q Bridge MIB RFC 2737 Entity MIB (Version 2) RFC 2863 The Interfaces Group MIB

Technical Specifications

Network Management

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
 RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)
 RFC 3164 BSD syslog Protocol
 ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)
 SNMPv1/v2c/v3

Security

IEEE 802.1X Port Based Network Access Control
 RFC 1492 TACACS+
 RFC 2138 RADIUS Authentication
 RFC 2866 RADIUS Accounting
 Secure Sockets Layer (SSL)
 SSHv1/SSHv2 Secure Shell

HP ProCurve Switch 2626-PWR (J8164A)	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 dual-personality ports; each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-TX; IEEE 802.3ab 1000Base-T Gigabit Ethernet) or an open mini- GBIC slot (for use with mini-GBIC transceivers) 1 RS-232C DB-9 console port
	Physical characteristics	Dimensions (D x W x H) 18.03 x 17.42 x 1.75 in. (45.8 x 44.25 x 4.45 cm) (1U height) Weight (fully loaded) 15.01 lb. (6.81 kg)
	Memory and processor	Processor type and speed Motorola PowerPC MPC8245 @ 266 MHz 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 μ s (LIFO) Throughput Up to 6.6 million pps Routing/Switching capacity 9.6 Gbps MAC address table size 8,000 entries
	Environment	Operating temperature 32°F to 122°F (0°C to 50°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) Non-operating/ Storage relative humidity 15% to 95% @ 149°F (65°C), non-condensing Altitude Up to 15,000 ft. (4.6 km) Acoustic Power: 53 dB; DIN 45635T.19 per ISO 7779

Technical Specifications

Electrical characteristics	Maximum heat dissipation 2155 BTU/hr (2273.53 kJ/hr) Voltage 100-240 VAC Current 7.5 / 3.5 A Power consumption 631 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. PoE Power is the power supplied by the internal power supply, this may be supplemented with the use of an External Power Supply (EPS).
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; EN55022/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 EN 61000-3-2:2000, IEC 61000-3-2:2001 Flicker EN 61000-3-3:2001, IEC 61000-3-3:2001
Management	HP ProCurve Manager Plus; HP ProCurve Manager (included); command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)
Services	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.
Standards and protocols	Device Management HTML and telnet management General Protocols IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1s Multiple Spanning Trees IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3af Power over Ethernet IEEE 802.3x Flow Control RFC 768 UDP

Technical Specifications

RFC 783 TFTP Protocol (revision 2)
 RFC 792 ICMP
 RFC 793 TCP
 RFC 826 ARP
 RFC 854 TELNET
 RFC 951 BOOTP
 RFC 1542 BOOTP Extensions
 RFC 2030 Simple Network Time Protocol (SNTP) v4
 RFC 3046 DHCP Relay Agent Information Option

IP Multicast

RFC 2236 IGMPv2

MIBs

RFC 1213 MIB II
 RFC 1493 Bridge MIB
 RFC 2021 RMONv2 MIB
 RFC 2096 IP Forwarding Table MIB
 RFC 2613 SMON MIB
 RFC 2618 RADIUS Client MIB
 RFC 2665 Ethernet-Like-MIB
 RFC 2668 802.3 MAU MIB
 RFC 2674 802.1p and IEEE 802.1Q Bridge MIB
 RFC 2737 Entity MIB (Version 2)
 RFC 2863 The Interfaces Group MIB

Network Management

IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
 RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events)
 RFC 3164 BSD syslog Protocol
 ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)
 SNMPv1/v2c/v3

Security

IEEE 802.1X Port Based Network Access Control
 RFC 1492 TACACS+
 RFC 2138 RADIUS Authentication
 RFC 2866 RADIUS Accounting
 Secure Sockets Layer (SSL)
 SSHv1/SSHv2 Secure Shell

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

8 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
 1 dual-personality port; each port can be used as either an RJ-45 10/100/1000 port (IEEE 802.3 Type 10Base-T; IEEE 802.3u Type 100Base-TX; IEEE 802.3ab 1000Base-T Gigabit Ethernet) or an open mini-GBIC slot (for use with mini-GBIC transceivers)
 1 RS-232C DB-9 console port

Physical characteristics	Dimensions (D x W x H)	8.86 x 17.44 x 1.73 in. (22.5 x 44.3 x 4.39 cm) (1U height)
	Weight (fully loaded)	7.5 lb. (3.4 kg)
Memory and processor	Flash capacity	8 MB



Technical Specifications

	Processor type and speed	Motorola PowerPC MPC8245 @ 266 MHz
	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 μ s (LIFO)
	Throughput	Up to 6.6 million pps
	Routing/Switching capacity	9.6 Gbps
	MAC address table size	8,000 entries
Environment	Operating temperature	32°F to 122°F (0°C to 50°C)
	Operating relative humidity	15% to 95% @ 104°F (40°C), non-condensing
	Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
	Non-operating/Storage relative humidity	15% to 95% @ 149°F (65°C), non-condensing
	Altitude	Up to 15,000 ft. (4.6 km)
	Acoustic	Power: 57 dB; DIN 45635T.19 per ISO 7779
Electrical characteristics	Maximum heat dissipation	649 BTU/hr (685 kJ/hr), including the switch and attached PoE devices; switch only: 228 BTU/hr (241 kJ/hr)
	Voltage	100-240 VAC
	Current	3.3 / 1.7 A
	Power consumption	190 W
	Frequency	50/60 Hz
Notes		<p>theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated.</p> <p>PoE Power is the power supplied by the internal power supply, this may be supplemented with the use of an External Power Supply (EPS).</p>
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; EN55022/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

Technical Specifications

	Voltage dips and interruptions	IEC 61000-4-11:2001, >95% reduction, 0.5 period; 30% reduction, 25 periods
	Harmonics	EN 61000-3-2:2000, IEC 61000-3-2:2001
	Flicker	EN 61000-3-3:2001, IEC 61000-3-3:2001
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Services	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.	
Standards and protocols	Device Management	HTML and telnet management
	General Protocols	IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1s Multiple Spanning Trees IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3af Power over Ethernet IEEE 802.3x Flow Control RFC 768 UDP RFC 783 TFTP Protocol (revision 2) RFC 792 ICMP RFC 793 TCP RFC 826 ARP RFC 854 TELNET RFC 951 BOOTP RFC 1542 BOOTP Extensions RFC 2030 Simple Network Time Protocol (SNTP) v4 RFC 3046 DHCP Relay Agent Information Option
	IP Multicast	RFC 2236 IGMPv2
	MIBs	RFC 1213 MIB II RFC 1493 Bridge MIB RFC 2021 RMONv2 MIB RFC 2096 IP Forwarding Table MIB RFC 2613 SMON MIB RFC 2618 RADIUS Client MIB RFC 2665 Ethernet-Like-MIB RFC 2668 802.3 MAU MIB RFC 2674 802.1p and IEEE 802.1Q Bridge MIB RFC 2737 Entity MIB (Version 2) RFC 2863 The Interfaces Group MIB
	Network Management	IEEE 802.1AB Link Layer Discovery Protocol (LLDP) RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events) RFC 3164 BSD syslog Protocol

Technical Specifications

ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED)

SNMPv1/v2c/v3

Security

IEEE 802.1X Port Based Network Access Control

RFC 1492 TACACS+

RFC 2138 RADIUS Authentication

RFC 2866 RADIUS Accounting

Secure Sockets Layer (SSL)

SSHv1/SSHv2 Secure Shell

Accessories

Accessories

HP ProCurve 600 Redundant External Power Supply	J8168A
HP ProCurve 610 External Power Supply	J8169A
HP ProCurve Manager 2.3	-
HP ProCurve Gigabit-SX-LC Mini-GBIC	J4858C
HP ProCurve Gigabit-LX-LC Mini-GBIC	J4859C
HP ProCurve Gigabit-LH-LC Mini-GBIC	J4860C
HP ProCurve Switch 2600-8-PWR with Gigabit Uplink (J8762A)	
NEW HP ProCurve 1000-BX-D SFP-LC Mini-GBIC	J9142B
NEW HP ProCurve 1000-BX-U SFP-LC Mini-GBIC	J9143B
NEW HP ProCurve 1000-BX-D SFP-LC Mini-GBIC	J9142B
NEW HP ProCurve 1000-BX-U SFP-LC Mini-GBIC	J9143B

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