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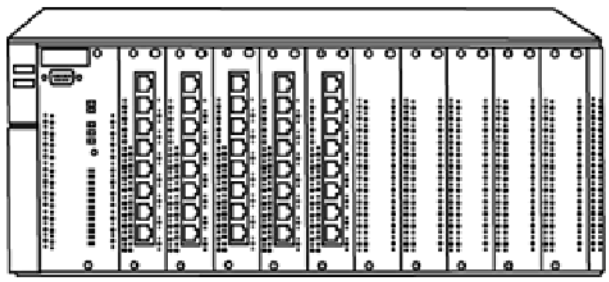
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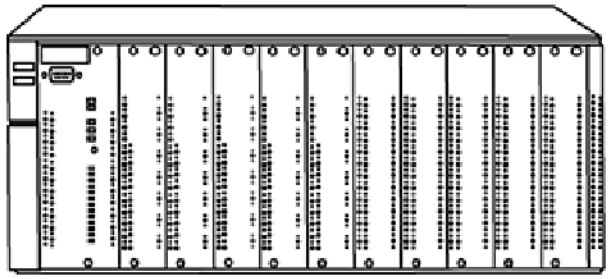
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Overview

ProCurve Switch 4000m



ProCurve Switch 8000m



Models

ProCurve Switch 4000m	J4121A
ProCurve Switch 8000m	J4110A

Introduction

The ProCurve Switch 4000m and 8000m are managed modular 10/100/100 desktop switches that provide scalable, expandable, low-cost migration to 10/100 switching for the desktop with Gigabit uplinks. The ProCurve 4000m and 8000m are a simple way to build high-availability networks. The ProCurve 4000m includes 40 auto-sensing 10/100 ports and 5 open module slots. The ProCurve 8000m provides 10 open module slots.

Overview

Features and Benefits

- **Stacking capability:** single IP address management for a virtual stack of up to 16 switches, including the 2500 series, 2600 series, 2800 series, 3400cl series, 4000m, 6108, 8000m, and 4100gl series
- **RMON and XRMON**: provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events
- **Port monitoring:** allows you to monitor traffic using a switched port so you can view several ports at one time with a network analyzer
- **Web interface:** allows you to configure the switch from any Web browser on the network
- **Protocol filtering:** provides traffic control
- **VLAN support and tagging:** support up to 30 port-based VLANs and dynamic configuration of 802.1Q VLAN tagging, providing security between workgroups
- **Class of Service (CoS) tagging:** sets 802.1p priority field using policy-based management
- **IP multicast** (IGMP): automatically prevents flooding of IP multicast traffic
- **Port security:** prevents unauthorized access using MAC address lockdown
- **HP switch meshing:** dynamically load-balances across multiple active redundant links to increase available aggregate bandwidth
- **Hot-swappable modules:** permit modules and mini-GBICs to be added or swapped without interrupting the network
- **Optional redundant power supply:** provides uninterrupted power
- **Spanning Tree Protocol:** provides redundant links while preventing network loops
- **802.3ad Link Aggregation Control Protocol (LACP) and HP trunking:** support up to 10 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
- **Automatic broadcast control (ABC):** minimizes IP and IPX broadcast traffic throughout the network
- **TACACS+:** eases switch management security administration by using a password authentication server
- **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)

Services

3-year, 4-hour onsite, 13 x 5 coverage for hardware	H5481A/E
3-year, 4-hour onsite, 24 x 7 coverage for hardware	U6303A/E
3-year, 4-hour onsite, 24 x 7 coverage for hardware, 24 x 7 software phone support	U6302A/E
Installation with minimum configuration, system-based pricing	U4827A/E
Installation with HP-provided configuration, system-based pricing	U4831A/E

Check http://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.

Technical Specifications

ProCurve Switch 4000m (J4121A)	Ports	5 open module slots 40 RJ-45 10/100 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX) 1 RS-232C DB-9 console port	
	Dimensions	17.4 x 13.2 x 7 in. (44.2 x 33.53 x 17.78 cm) (4U height)	
	Weight	22.9 lb (10.31 kg)	
	Memory and processor	Fabric processor type and speed	Intel® i960JD @ 66 MHz
		Packet buffer size	512 KB per port (10/100 ports); 4 MB per port (Gigabit ports)
		RAM/ROM capacity	16 MB
		Flash capacity	2 MB
	Mounting	Mounts in a standard 19 in. rack (hardware included)	
	Performance	Latency	<10 μs (LIFO)
		Throughput	4.67 million pps
		Switch fabric speed	3.8 Gbps
		Address table size	10,000 entries
	Environment	Operating temperature	32° to 131° F (0° to 55° C)
		Operating relative humidity	15% to 95% @ 104° F (40° C), noncondensing
		Non-operating/storage temperature	–40° to 158° F (–40° to 70° C)
		Non-operating/storage relative humidity	15% to 90% @ 149° F (65° C), noncondensing
		Shock and vibration	EN 60068 (IEC 68)
	Electrical characteristics	Maximum BTUs	535 BTU/hr
		Voltage	100–127 VAC/200–240 VAC
		Current	2.0 A/1.0 A
		Power	157 W
		Frequency	50/60 Hz
	Safety	cUL (CSA 950); EN 60950/IEC 60950;NOM-019-SCFI-1994; UL 1950 3rd edition	
	Emissions	FCC Class A; EN 55022/CISPR 22 Class A;VCCI Class A	
	Immunity	Generic	EN 50082-1
		ESD	IEC 801-2; 4 kV CD, 8 kV AD
		Radiated	IEC 801-3; 3V/m
		EFT/Burst	IEC 801-4; 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 IEEE 802.1D Spanning Tree IEEE 802.3ad Link Aggregation Control Protocol Cisco Fast EtherChannel® (FEC) RFC 1492 TACACS+ IEEE 802.1Q VLANs IEEE 802.1p Priority SNMPv1/v2c Cisco Discovery Protocal (CDP) RFC 1493 Bridge MIB RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm), and 9 (events) XRMON	

Technical Specifications

ProCurve Switch 8000m (J4110A)	Ports	10 open module slots 1 RS-232C DB-9 console port	
	Dimensions	17.4 x 13.2 x 7 in. (44.2 x 33.53 x 17.78 cm) (4U height)	
	Weight	20.7 lb (9.32 kg)	
	Memory and processor	Fabric processor type and speed	Intel® i960JD @ 66 MHz
		Packet buffer size	512 KB per port (10/100 ports); 4 MB per port (Gigabit ports)
		RAM/ROM capacity	16 MB
		Flash capacity	2 MB
	Mounting	Mounts in a standard 19 in. rack (hardware included)	
	Performance	Latency	4.67 millions pps
		Throughput	4.67 mpps
		Switch fabric	3.8 Gbps
		Address table size	10,000 entries
	Environment	Operating temperature	32° to 131° F (0° to 55° C)
		Operating relative humidity	15% to 95% @ 104° F (40° C), noncondensing
		Non-operating/storage temperature	–40° to 158° F (–40° to 70° C)
		Non-operating/storage relative humidity	15% to 90% @ 149° F (65° C), noncondensing
		Shock and vibration	EN 60068 (IEC 68)
	Electrical characteristics	Maximum BTUs	535 BTU/hr
		Voltage	100–127 VAC/200–240 VAC
		Current	2.0 A/1.0 A
		Power	157 W
		Frequency	50/60 Hz
	Safety	cUL (CSA 950); EN 60950/IEC 60950; NOM-019-SCFI-1994; UL 1950 3rd edition	
	Emissions	FCC Class A; EN 55022/CISPR 22 Class A;VCCI Class A	
	Immunity	Generic	EN 50082-1
		ESD	IEC 801-2; 4 kV CD, 8 kV AD
		Radiated	IEC 801-3; 3V/m
		EFT/Burst	IEC 801-4; 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 IEEE 802.1D Spanning Tree IEEE 802.3ad Link Aggregation Control Protocol Cisco Fast EtherChannel® (FEC) RFC 1492 TACACS+ IEEE 802.1Q VLANs IEEE 802.1p Priority SNMPv1/v2c Cisco Discovery Protocal (CDP) RFC 1493 Bridge MIB RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm), and 9 (events) XRMON	

ProCurve Switch 8000m and 4000m Modules

ProCurve Switch 10/100Base-T Module (J4111A)	**Ports**	8 auto-sensing 10/100 ports (IEEE 802.3 Type 10Base-T; 802.3u Type 100Base-TX) Connector: RJ-45 HP Auto-MDIX: no (ports are MDI-X) Duplex: half or full
	Physical characteristics	Dimensions: 7.1 x 6.5 x 1.4 in (18.03 x 16.51 x 3.56 cm) Weight: 0.56 lb (0.25 kg)
	Cabling	Type: • 10Base-T: Category 3 (or better), 100 Ω differential unshielded twisted pair (UTP) or shielded twisted pair (STP), complying with IEEE 802.3 Type 10Base-T specifications • 100Base-TX: Category 5 (or better), 100 Ω differential unshielded twisted pair (UTP) or shielded twisted pair (STP), complying with IEEE 802.3u 100Base-TX Maximum distance: 100 m
ProCurve Switch 100Base-FX Module (J4112A)	**Ports**	4 100Base-FX ports (IEEE 802.3u Type 100Base-FX) Connector: SC Duplex: full
	Physical characteristics	Dimensions: 7.1 x 6.5 x 1.4 in (18.03 x 16.51 x 3.56 cm) Weight: 0.56 lb (0.25 kg)
	Cabling	Type: 62.5/125 µm or 50/125 µm (core/cladding) diameter, graded-index, multimode fiber-optic, complying with ITU-T G.651 and ISO/IEC 793-2 complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively Maximum distance: 2 km (full-duplex) or 412 m (half-duplex)
	NOTE: An ProCurve 4000m/8000m Redundant Power Supply (J4119A) is required if more than 5 ProCurve Switch 100Base-FX modules (J4112A) are installed.	
ProCurve Switch Gigabit-SX Module (J4113A)	**Ports**	One 1000Base-SX port (IEEE 802.3z Type 1000Base-SX) Connector: SC Duplex: full
	Physical characteristics	Dimensions: 7.1 x 6.5 x 1.4 in (18.03 x 16.51 x 3.56 cm) Weight: 0.56 lb (0.25 kg)
	Cabling	Type: 62.5/125 µm or 50/125 µm (core/cladding) diameter, graded-index, 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 x km bandwidth) • 275 m (62.5 µm core diameter, 200 MHz x km bandwidth) • 500 m (50 µm core diameter, 400 MHz x km bandwidth) • 550 m (50 µm core diameter, 500 MHz x km bandwidth)
ProCurve Switch Gigabit-LX Module (J4114A)	**Ports**	One 1000Base-LX port (IEEE 802.3z Type 1000Base-LX) Connector: SC Duplex: full
	Physical characteristics	Dimensions: 7.1 x 6.5 x 1.4 in (18.03 x 16.51 x 3.56 cm) Weight: 0.56 lb (0.25 kg)
	Cabling	Type: either single mode or multimode • 9/125 µm (core/cladding) diameter, 1310 nm, low metal content, single mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1 • 62.5/125 µm or 50/125 µm (core/cladding) diameter, graded-index, multimode fiber-optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively Maximum distance: 10 km (single mode) or 550 m (multimode)

ProCurve Switch 8000m and 4000m Modules

ProCurve Switch 100/1000Base-T Module (J4115B)	**Ports**	1 auto-sensing 100/1000 port (IEEE 802.3u Type 100Base-TX; 802.3ab Type 1000Base-T) Connector: RJ-45 HP Auto-MDIX: yes Duplex: ● 100Base-TX: half or full ● 1000Base-T: full
	Physical characteristics	Dimensions: 7.1 x 6.5 x 1.4 in (18.03 x 16.51 x 3.56 cm) Weight: 0.56 lb (0.25 kg)
	Cabling	Type: ● 100Base-TX: Category 5 (or better), 100 O differential unshielded twisted pair (UTP) or shielded twisted pair (STP), complying with IEEE 802.3u 100Base-TX ● 1000Base-T: Category 5 (5E or better recommended), 100 O differential 4-pair unshielded twisted pair (UTP) or shielded twisted pair (STP) balanced, complying with IEEE 802.3ab 1000Base-T Maximum distance: 100 m
ProCurve Switch 10Base-FL Module (J4118A)	**Ports**	4 10Base-FL ports (IEEE 802.3j Type 10Base-FL) Connector: ST Duplex: half or full
	Physical characteristics	Dimensions: 7.1 x 6.5 x 1.4 in (18.03 x 16.51 x 3.56 cm) Weight: 0.56 lb (0.25 kg)
	Cabling	Type: 62.5/125 µm or 50/125 µm (core/cladding) diameter, graded-index, multimode fiber-optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively Maximum distance: 1 km
ProCurve Switch 4000m/8000m Redundant Power Supply (J4119A)	Only used with: ● J4110A ProCurve Switch 8000m ● J4121A ProCurve Switch 4000m	
	Physical characteristics	Dimensions: 8.1 x 5.5 x 6.6 in (20.57 x 13.97 x 16.76 cm) Weight: 3.31 lb (1.49 kg)
	Electrical characteristics	Voltage: 100–127 VAC/200–240 VAC Current: 2.0 A/1.0 A Frequency: 50/60 Hz
	NOTE: For additional RPS specification information, see the QuickSpec for the product in which the RPS is being installed.	

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5982-4071EN, 11/2004

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