Specifications

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	HP E2520-8-PoE Switch (J9137A)	HP E2520-24-PoE Switch (J9138A)		
Ports	8 RJ-45 auto-sensing 10/100 PoE ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3af PoE); Media Type: Auto-MDIX; Duplex: half or full	24 RJ-45 auto-sensing 10/100 PoE ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3af PoE); 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 as a SFP slot (for use with SFP transceivers)	2 RJ-45 auto-sensing 10/100/1000 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T); Media Type: Auto-MDIX; Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only		
	1 RJ-45 serial console port	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 as a SFP slot (for use with SFP transceivers)		
		1 RJ-45 serial console port		
Physical characteristics				
Dimensions	$6.28(d) \times 10(w) \times 1.75(h)$ in. (15.95 x 25.4 x 4.45 cm) (1U height)	9.69(d) x 17.44(w) x 1.75(h) in. (24.61 x 44.3 x 4.45 cm) (1U height)		
Weight	3.62 lb. (1.64 kg) including power adapter and power cord	7.1 lb. (3.22 kg)		
Memory and processor				
Processor	Freescale PowerPC 8313 @ 266 MHz, 32 MB flash, 128 MB DDR2 SDRAM; packet buffer size: 384 KB dynamically allocated	Freescale PowerPC 8313 @ 266 MHz, 32 MB flash, 128 MB DDR2 SDRAM; packet buffer size: 384 KB dynamically allocated		
Mounting	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting	Mounts in an EIA-standard 19-inch telco rack or equipment cabinet (rack-mounting kit available); horizontal surface mounting; wall mounting		
Performance	. 5 ,	. 5 ,,		
100 Mb Latency	< 1.9 μs (LIFO 64-byte packets)	< 1.9 μs (LIFO 64-byte packets)		
1000 Mb Latency	< 1.5 μs (LIFO 64-byte packets)	< 1.5 μs (LIFO 64-byte packets)		
Throughput	4.1 million pps	6.2 million pps		
Switching capacity	5.6 Gbps	12.8 Gbps		
MAC address table size	8,000 entries	8,000 entries		
Environment				
Operating temperature	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)		
Operating relative humidity	15% to 95% @ 104°F (40°C), non-condensing	15% to 95% @ 104°F (40°C), non-condensing		
Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)		
Non-operating/Storage relative humidity	15% to 95% @ 149°F (65°C), non-condensing	15% to 95% @ 149°F (65°C), non-condensing		
Altitude	up to 10,000 ft. (3 km)	up to 10,000 ft. (3 km)		
Acoustic	Power: 0 dB, Pressure: 0 dB	Power: 27.9 dB, Pressure: 36.0 dB; DIN 45635T.19 per ISO 7779		
Electrical characteristics				
Description	Use only the external power adapter module (5070-6082, PA1 AC adapter) supplied with this product			
Maximum heat dissipation	87 BTU/hr (91.79 kJ/hr)	208 BTU/hr (219.44 kJ/hr)		
Voltage	100-240 VAC	100-127 / 200-240 VAC		
Current	1.5 A	3.3 / 1.6 A		
Idle power	9.4 W	21.6 W		
Maximum power rating	85.5 W	257 W		
PoE power	67 W	195 W		
Frequency	50 / 60 Hz	50 / 60 Hz		
Notes	Idle power is the actual power consumption of the device with no ports connected.	Idle power is the actual power consumption of the device with no ports connected.		
	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.	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 total power budget available to all PoE ports.	PoE Power is the total power budget available to all PoE ports.		
Safety	cUL (CSA 22.2 No. 60950); CE Labeled; UL 60950-1; UL Listed; CAN/CSA 22.2 No. 60950; EN 60825; AS/NZS 60950; IEC 60950-1; EN 60950-1	cUL (CSA 22.2 No. 60950); CE Labeled; UL 60950-1; UL Listed; CAN/CSA 22.2 No. 60950; EN 60825; AS/NZS 60950; IEC 60950-1; EN 60950-1		
Emissions	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 (Canada); AS/NZS CISPR 22; IEC/EN 61000-3-2; IEC/EN 61000-3-3; IEC 61000:4-2, 4-3, 4-4, 4-5, 4-6, 4-8, 4-11	FCC part 15 Class A; VCCI Class A; EN 55022 Class A; CISPR 22 Class A; ICES-003 (Canada); AS/NZS CISPR 22; IEC/EN 61000-3-2; IEC/EN 61000-3-3; IEC 61000:4-2, 4-3, 4-4, 4-5, 4-6, 4-8, 4-11		
Immunity				
Generic	EN 55024, CISPR 24	EN 55024, CISPR 24		
EN	EN 55024, CISPR 24	EN 55024, CISPR 24		
ESD	IEC 61000-4-2	IEC 61000-4-2		
Radiated	IEC 61000-4-3	IEC 61000-4-3		
EFT/Burst	IEC 61000-4-4	IEC 61000-4-4		

Specifications (continued)

	HP E2520-8-PoE Switch (J9137A)		HP E2520-24-PoE Switch	(J9138A)	
Surge Conducted Power frequency magnetic field Voltage dips and interruptions Harmonics Flicker	IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11 EN 61000-3-2, IEC 61000-3-2 EN 61000-3-3, IEC 61000-3-3	IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11 EN 61000-3-2, IEC 61000-3-2 EN 61000-3-3, IEC 61000-3-3		IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-8 IEC 61000-4-11 EN 61000-3-2, IEC 61000-3-2 EN 61000-3-3, IEC 61000-3-3	
Management		HP PCM+; HP PCM; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB		HP PCM+; HP PCM; command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C); IEEE 802.3 Ethernet MIB; Repeater MIB; Ethernet Interface MIB	
Notes	(product number ends with the letter "B" or later, for are required. When using mini-GBICs with this product, mini-GBIC	When using mini-GBICs with this product, mini-GBICs with revision "B" or later (product number ends with the letter "B" or later, for example, J4858B, J4859C)		When using mini-GBICs with this product, mini-GBICs with revision "B" or later (product number ends with the letter "B" or later, for example, J4858B, J4859C) are required. When using mini-GBICs with this product, mini-GBICs with revision "B" or later (product number ends with the letter "B" or later, for example, J4858B, J4859C) are required.	
Services	3-year, 4-hour onsite, 24x7 coverage for hardware 3-year, 4-hour onsite, 24x7 coverage for hardware support (U6321E) 3-year, 24x7 SW phone support, software updates Installation with minimum configuration, system-base Installation with HP-provided configuration, system-base last and the system-tayear, 4-hour onsite, 13x5 coverage for hardware 4-year, 4-hour onsite, 24x7 coverage for hardware 4-year, 4-hour onsite, 24x7 coverage for hardware (UR950E) 4-year, 24x7 SW phone support, software updates 5-year, 4-hour onsite, 13x5 coverage for hardware 5-year, 4-hour onsite, 24x7 coverage for hardware 5-year, 4-hour onsite, 24x7 coverage for hardware (UR954E) 5-year, 24x7 SW phone support, software updates 3 Yr 6 hr Call+o-Repair Onsite (UW368E) 4 Yr 6 hr Call+o-Repair Onsite (UW369E) 5 Yr 6 hr Call+o-Repair Onsite (UW370E) Refer to the HP website at www.hp.com/networking service-level descriptions and product numbers. For	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) 4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E) 4-year, 24x7 SW phone support, software updates (UR951E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UR955E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UR955E) 5-year, 4-hour onsite, 26x7 coverage for hardware, 24x7 software phone (UR954E) 5-year, 24x7 SW phone support, software updates (UR955E) 3 Yr 6 hr Call-to-Repair Onsite (UW368E) 4 Yr 6 hr Call-to-Repair Onsite (UW369E)		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) 4-year, 4-hour onsite, 13x5 coverage for hardware (UR948E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UR949E) 4-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR950E) 4-year, 24x7 SW phone support, software updates (UR951E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UR952E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UR953E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E) 5-year, 4-hour onsite, 24x7 coverage for hardware, 24x7 software phone (UR954E) 5-year, 4-hour onsite, 04x7 coverage for hardware, 24x7 software phone (UR954E) 5-year, 4-hour onsite, 04x7 coverage for hardware, 24x7 software phone (UR954E) 5-year, 4-hour onsite, 04x7 coverage for hardware, 24x7 software phone (UR954E) 5-year, 4-hour onsite, 04x7 coverage for hardware, 24x7 software phone (UR954E) 5-year, 4-hour onsite, 04x7 coverage for hardware, 24x7 software phone (UR954E) 5-year, 4-hour onsite, 04x7 coverage for hardware (UR955E) 5-year, 4-hour onsite, 04x7 coverage for hardware (UR956E) 5-year, 4-hour onsite, 04x7 coverage for hardware (UR956E) 5-year, 4-hour onsite, 04x7 coverage for hardware (UR95	
Standards and protocols (applies to all products in series)	Denial of service protection CPU DoS Protection	IP multicast RFC 3376 IGMPv3 (host		RFC 2863 The Interfaces Group MIB	
	Device management RFC 1591 DNS (client) SSHv1/SSHv2 Secure Shell General protocols IEEE 802.1p MAC Bridges IEEE 802.1p Priority IEEE 802.1g VLANs IEEE 802.1s Multiple Spanning Trees IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.3 type 10BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE 802.3af Power over Ethernet IEEE 802.3ar Flow Control RFC 768 UDP RFC 783 TFTP Protocol (revision 2) RFC 792 ICMP RFC 793 TCP RFC 826 ARP RFC 854 TELNET RFC 868 Time Protocol RFC 951 BOOTP RFC 1350 TFTP Protocol (revision 2) RFC 1542 BOOTP Extensions RFC 2030 Simple Network Time Protocol (SNTP) v4 RFC 2131 DHCP	IPv6 RFC 1981 IPv6 Path MTU RFC 2460 IPv6 Specifical RFC 2925 Remote Opera RFC 3315 DHCPv6 (clien RFC 3596 DNS Extensior RFC 4022 MIB for TCP RFC 4113 MIB for UDP RFC 4251 SSHv6 Archite RFC 4252 SSHv6 Archite RFC 4253 SSHv6 Archite RFC 4253 SSHv6 Transpe RFC 4254 SSHv6 Connec RFC 4293 MIB for IP RFC 4419 Key Exchange RFC 4443 ICMPv6 RFC 4861 IPv6 Neighbor RFC 4862 IPv6 Stateless MIBs RFC 1213 MIB II RFC 1493 Bridge MIB RFC 2021 RMONv2 MIB RFC 2618 RADIUS Client RFC 2620 RADIUS Client RFC 2620 RADIUS Cacco RFC 2665 Ethernet-Like-M	I Discovery ition Itions MIB (Ping only) It only) It only) It only) It only It	Network management IEEE 802.1AB Link Layer Discovery Protocol (LLDP) RFC 1098 A Simple Network Management Protocol (SNMP) RFC 2819 Four groups of RMON: 1 (statistics), 2 (history), 3 (alarm) and 9 (events) SNMPv1/v2c/v3 QoS/CoS RFC 2474 DiffServ precedence, with 4 queues per port RFC 2475 DiffServ Architecture RFC 2597 DiffServ Assured Forwarding (AF) RFC 2598 DiffServ Expedited Forwarding (EF) Security IEEE 802.1X Port Based Network Access Control RFC 1492 TACACS+ RFC 2138 RADIUS Authentication RFC 2866 RADIUS Accounting Secure Sockets Layer (SSL)	