J9310A Datasheet

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Overview

HPE J9310A is one of the HPE 3500yl Switch Series. Each of the 3500yl switch has one yl Module Slot, 10 gigabit expansion slot that can accept one of two modules that provides either copper or fiber optic media that conforms to the 10-Gigabit Ethernet standard as well as dual 10 gigabit copper or uplink ports.

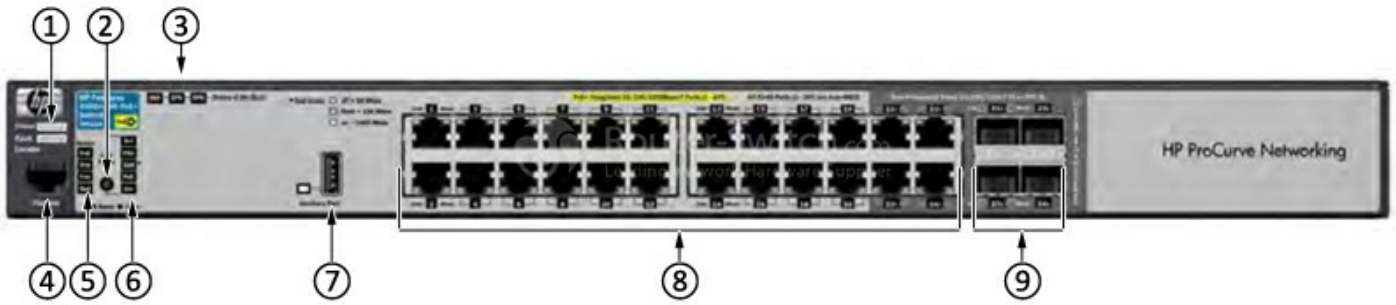
Quick Spec

Table 1 shows the quick spec.

Product Code	J9310A
Type	HP 3500-24G-PoE+ yl Switch
I/O ports and slots	· 20 autosensing 10/100/1000 ports; Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) · 1 RJ-45 serial console port · 4 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) with PoE or an open mini-GBIC slot (for use with mini-GBIC transceivers) · 1 open module slot · Supports a maximum of 4 10-GbE ports
Throughput	up to 75.7 Mp/s
Routing/Switching capacity	101.8 Gb/s
Dimensions (H x W x D)	4.4 x 44.3 x 39.2 cm (1.73 x 17.44 x 15.43 in)
Weight	6.29 kg (13.86 lb)

Product Details

Figure 1 shows the front panel of HPE J9310A.



Note:

(1)	Power, Fault, and Locator LEDs
(2)	Reset and Clear buttons
(3)	Module, EPS, and RPS, Status LEDs
(4)	Console port

(5)	PoE, Temp, Fan, and Test Status LEDs
(6)	Port LED Mode select button and indicator LEDs
(7)	Auxiliary port and LED
(8)	24 × 10/100/1000Base-T RJ-45 Ports
(9)	Dual-personality ports (1000Base-T or mini-GBIC)

Figure 2 shows the back panel of HPE J9310A.

Note:

(1)	yl module slot
(2)	RPS Input Port
(3)	EPS Input Port
(4)	AC power connector

yl Module Slot

Each of the 3500yl switch has one, 10 gigabit expansion slot that can accept one of two modules that provides either copper or fiber optic media that conforms to the 10-Gigabit Ethernet standard as well as dual 10 gigabit copper or uplink ports

(1) a 4 x 10 gigabit transceiver module. This yl module provides four ports:

· two 10-GbE CX4 fixed copper ports
· two 10-GbE flexible media slots that support different transceivers.

(2) a 4 x 10 gigabit transceiver module. This yl module provides four ports:

· two 10-GbE CX4 fixed copper ports
· two 10-GbE SFP+ slots that support 10-GbE SFP+ transceivers.

Compare to Similar Items

Table 2 shows the comparison.

Product Code	J9310A	J9311A
Type	HP 3500-24G-PoE+ yl Switch	HP 3500-48G-PoE+ yl Switch

I/O ports and slots	· 20 autosensing 10/100/1000 ports; Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) · 1 RJ-45 serial console port · 4 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) with PoE or an open mini-GBIC slot (for use with mini-GBIC transceivers) · 1 open module slot · Supports a maximum of 4 10-GbE ports	· 44 autosensing 10/100/1000 ports; Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) · 1 RJ-45 serial console port · 4 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) with PoE or an open mini-GBIC slot (for use with mini-GBIC transceivers) · Supports a maximum of 4 10-GbE ports
Throughput	up to 75.7 Mp/s	up to 111.5 Mp/s
Routing/Switching capacity	101.8 Gb/s	149.8 Gb/s

Get more information

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Specification

J9310A Specifications	
Type	HP 3500-24G-PoE+ yl Switch
System specifications	
I/O ports and slots	· 20 autosensing 10/100/1000 ports; Media Type: Auto-MDIX; Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) · 1 RJ-45 serial console port · 4 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) with PoE or an open mini-GBIC slot (for use with mini-GBIC transceivers) · 1 open module slot · Supports a maximum of 4 10-GbE ports
Memory and processor Module	10G module:ARM9 @ 200 MHz; packet buffer size: 36 Mb QDR SDRAM Management Module: Stackable memory and processor: Freescale PowerPC 8540 @ 666 MHz, 4 MB flash, 128 MB compact flash, 256 MB DDR SDRAM
Mounting and enclosure	Mounts in an EIA-standard 19 in. telco rack or equipment cabinet (hardware included); horizontal surface mounting only
Management	HP PCM+; HP PCM (included); command-line interface; Web browser; configuration menu; out-of-band management (serial RS-232C)
Performance	
1000 Mb Latency	< 3.4 µs (FIFO 64-byte packets)
10 Gbps Latency	< 2.1 µs (FIFO 64-byte packets)
Throughput	up to 75.7 Mp/s
Routing/Switching capacity	101.8 Gb/s
Switch fabric speed	105.6 Gb/s
Routing table size	10000 entries (IPv4)
MAC address table size	64000 entries
Physical specifications	

Dimensions (H x W x D)	4.4 x 44.3 x 39.2 cm (1.73 x 17.44 x 15.43 in)
Weight	6.29 kg (13.86 lb)
Electrical specifications	
Frequency	50 / 60 Hz
Description	The switch automatically adjusts to any voltage between 100-127 and 200-240 V with either 50 or 60 Hz.
Maximum heat dissipation	865 BTU/hr (912.9 kJ/hr)
AC voltage	100-127/200-240 V ac
Current	6.6 / 3.0 A
Idle power	94W
Maximum power rating	616W
PoE power	398 W
Environmental specifications	
Operating temperature	0°C to 55°C (32°F to 131°F); 40°C (32°F to 104°F) when used with any X2 10-GbE
Operating relative humidity	40°C (15% to 95% @ 104°F) noncondensing
Nonoperating/Storage temperature	-40°C to 70°C (-40°F to 158°F)
Nonoperating/Storage relative humidity	65°C (15% to 90% @ 149°F) noncondensing
Altitude	4.6 km (up to 15,000 ft)
Acoustic	Power: 57.0 dB, Pressure: 40.5 dB ISO 7779, ISO 9296
Safety agency certifications and emissions	
Safety	CSA 22.2 No. 60950; UL 60950; IEC 60950; EN 60950
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A
Immunity	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
Standards and protocols	
BGP	RFC 1997 - BGP Communities Attribute RFC 2918 - Route Refresh Capability RFC 4271 - A Border Gateway Protocol 4 (BGP-4) RFC 4456 - BGP Route Reflection: An Alternative to Full Mesh Internal BGP (IBGP) RFC 5492 - Capabilities Advertisement with BGP-4
Device management	RFC 1591 - DNS (client) HTML and telnet management

General protocols	IEEE 802.1ad Q-in-Q IEEE 802.1AX-2008 Link Aggregation IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q VLANs IEEE 802.1s Multiple Spanning Trees IEEE 802.1v VLAN classification by Protocol and Port 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 868 - Time Protocol RFC 951 - BOOTP RFC 1058 - RIPv1 RFC 1350 - TFTP Protocol (revision 2) RFC 1519 - CIDR RFC 1542 - BOOTP Extensions RFC 2030 - Simple Network Time Protocol (SNTP) v4 RFC 2131 - DHCP RFC 2453 - RIPv2 RFC 2548 - (MS-RAS-Vendor only) RFC 3046 - DHCP Relay Agent Information Option RFC 3576 - Ext to RADIUS (CoA only) RFC 3768 - VRRP RFC 4675 - RADIUS VLAN & Priority UDLD (Uni-directional Link Detection)
IP multicast	RFC 3376 - IGMPv3 (host joins only) RFC 3973 - Draft 2 PIM Dense Mode RFC 4601 - Draft 10 PIM Sparse Mode
IPv6	RFC 1981 - IPv6 Path MTU Discovery RFC 2375 - IPv6 Multicast Address Assignments RFC 2460 - IPv6 Specification RFC 2464 - Transmission of IPv6 over Ethernet Networks RFC 2710 - Multicast Listener Discovery (MLD) for IPv6 RFC 2925 - Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations (Ping only) RFC 3019 - MLDv1 MIB RFC 3315 - DHCPv6 (client and relay) RFC 3484 - Default Address Selection for IPv6 RFC 3587 - IPv6 Global Unicast Address Format RFC 3596 - DNS Extension for IPv6 RFC 3810 - MLDv2 for IPv6 RFC 4022 - MIB for TCP RFC 4087 - IP Tunnel MIB RFC 4113 - MIB for UDP RFC 4213 - Basic Transition Mechanisms for IPv6 Hosts and Routers RFC 4251 - SSHv6 Architecture RFC 4252 - SSHv6 Authentication RFC 4253 - SSHv6 Transport Layer RFC 4254 - SSHv6 Connection RFC 4291 - IP Version 6 Addressing Architecture RFC 4293 - MIB for IP RFC 4294 - IPv6 Node Requirements RFC 4419 - Key Exchange for SSH RFC 4443 - ICMPv6 RFC 4541 - IGMP & MLD Snooping Switch RFC 4861 - IPv6 Neighbor Discovery RFC 4862 - IPv6 Stateless Address Autoconfiguration RFC 5095 - Deprecation of Type 0 Routing Headers in IPv6 RFC 5340 - OSPFv3 for IPv6 RFC 5453 - Reserved IPv6 Interface Identifiers RFC 5519 - Multicast Group Membership Discovery MIB (MLDv2 only) RFC 5722 - Handling of Overlapping IPv6 Fragments

MIBs	RFC 1213 - MIB II RFC 1493 - Bridge MIB RFC 1724 - RIPv2 MIB RFC 1850 - OSPFv2 MIB RFC 2021 - RMONv2 MIB RFC 2096 - IP Forwarding Table MIB RFC 2613 - SMON MIB RFC 2618 - RADIUS Client MIB RFC 2620 - RADIUS Accounting 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 2787 - VRRP MIB RFC 2863 - The Interfaces Group MIB RFC 2925 - Ping MIB RFC 2933 - IGMP 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 3176 - sFlow ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) SNMPv1/v2c/v3 XRMON
OSPF	RFC 2328 - OSPFv2 RFC 3101 - OSPF NSSA RFC 5340 - OSPFv3 for IPv6
QoS/CoS	RFC 2474 - DiffServ Precedence, including 8 queues/port 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 2865 - RADIUS (client only) RFC 2866 - RADIUS Accounting RFC 3579 - RADIUS Support For Extensible Authentication Protocol (EAP) Secure Sockets Layer (SSL) SSHv2 Secure Shell

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