JG311A Datasheet

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Overview

HPE FlexNetwork 5500 HI Series switches are Gigabit switches delivering outstanding resiliency, security, and multiservice support for the edge layer of data center, large campus, and metro Ethernet network. This JG311A has 24 x 10/100/1000 ports. Additionally, the model has 4 x fixed Gigabit Ethernet SFP ports and 2 x 10 Gigabit SFP+ ports as well as two expansion module slots.

Quick Spec

Figure 1 shows the appearance of HPE JG311A.

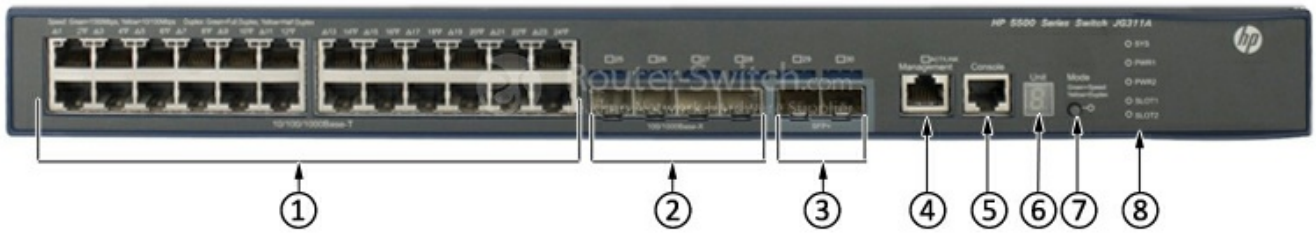
Table 1 shows the quick spec.

Product Code	JG311A
Type	HP 5500-24G-4SFP HI Switch with 2 interface Slots
Ports	24 RJ-45 autosensing 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 4 fixed Gigabit Ethernet SFP ports 2 SFP+ 10GbE ports 2 port expansion module slots Supports a maximum of 38 autosensing 100/1000 ports, with optional module
Additional ports and slots	1 RJ-45 serial console port 1 RJ-45 out-of-band management port
Power supplies	2 power supply slots 1 minimum power supply required (ordered separately)
Memory and processor	1 GB SDRAM Packet buffer size: 3 MB 512 MB flash
Mounting and enclosure	Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included)
Performance	1000 Mb Latency: < 5 µs 10 Gb/s Latency: < 3 µs Throughput: up to 130.9 mp/s Routing/Switching capacity: 176 Gb/s Routing table size: 12000 entries (IPv4), 6000 entries (IPv6) MAC address table size: 32000 entries
Dimensions (W x D x H)	4.37 x 44 x 36 cm (1.72 x 17.32 x 14.17 in) (1U height)

Weight	7.5 kg (16.53 lb)

Product Details

Figure 2 shows the front panel of HPE JG311A.



Note:

(1)	24 × 10/100/1000 Base-T auto-sensing Ethernet port
(2)	4 x 100/1000 Base-X SFP ports
(3)	2 x SFP+ ports
(4)	Management Ethernet port (Management)
(5)	Console port
(6)	Seven-segment LED (Unit)
(7)	Port LED mode switching button
(8)	System status LED (SYS), Power supply 1 status LED (PWR1), Power supply 2 status LED (PWR2), Interface card 1 status LED (SLOT1), Interface card 2 status LED (SLOT2)

Figure 3 shows the back panel of HPE JG311A.

Note:

(1)	Power supply slot 1 (PWR1)
(2)	Power supply slot 2 (PWR2)

(3)	Interface card slot 1 (SLOT1) (The module must be purchased alone.)
(4)	Interface card slot 2 (SLOT2) (The module must be purchased alone.)

Compare to Similar Items

Table 2 shows the comparison.

Product Code	JG311A	JG312A	JG541A	JG542A	JG543A
Type	HP 5500-24G-4SFP HI Switch with 2 interface Slots	HP 5500-48G-4SFP HI Switch with 2 interface Slots	HP 5500-24G-PoE+-4SFP HI Switch with 2 Interface Slots	HP 5500-48G-PoE+-4SFP HI Switch with 2 Interface Slots	HP 5500-24G-SFP HI Switch with 2 Interface Slots
Performance	1000 Mb Latency: < 5 µs 10 Gb/s Latency: < 3 µs Throughput: up to 130.9 mp/s Routing/Switching capacity: 176 Gb/s Routing table size: 12000 entries (IPv4), 6000 entries (IPv6) MAC address table size: 32000 entries	1000 Mb Latency: < 5 µs 10 Gb/s Latency: < 3 µs Throughput: up to 166.6 Mp/s Routing/Switching capacity: 224 Gb/s Routing table size: 12000 entries (IPv4), 6000 entries (IPv6) MAC address table size: 32000 entries	1000 Mb Latency: < 5 µs 10 Gb/s Latency: < 3 µs Throughput: up to 130.9 Mp/s Routing/Switching capacity: 176 Gb/s Routing table size: 12000 entries (IPv4), 6000 entries (IPv6) MAC address table size: 32000 entries	1000 Mb Latency: < 5 µs 10 Gbps Latency: < 3 µs Throughput: up to 166.6 Mp/s Routing/Switching capacity: 224 Gb/s Routing table size: 12000 entries (IPv4), 6000 entries (IPv6) MAC address table size: 32000 entries	1000 Mb Latency: < 5 µs 10 Gbps Latency: < 3 µs Throughput: up to 130.9 Mp/s Routing/Switching capacity: 176 Gb/s Routing table size: 12000 entries (IPv4), 6000 entries (IPv6) MAC address table size: 32000 entries

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Specification

JG311A Specifications	
Physical specifications	
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Dimensions (H x W x D)	4.37 x 44 x 36 cm (1.72 x 17.32 x 14.17 in) (1U height)
Weight	7.5 kg (16.53 lb)
Environmental specifications	
Operating temperature	0° to 50°C (32° to 122°F)
Operating relative humidity	5% to 95% Non-condensing
Non-operating/storage temperature	-40° to +70°C (-40° to +158°F)
Non-operating/storage relative humidity	5% to 95% Non-condensing
Acoustic	Low-speed fan: 48.3 dB High-speed fan: 54.0 dB
Electrical specifications	
Frequency	50/60 Hz
Maximum heat dissipation1	481 BTU/hr (507.46 kJ/hr)

Maximum power rating	141 W
PoE power2	-
Voltage	100 - 240 V ac, rated -48 to -60 V dc, rated (depending on power supply chosen)
Technical specifications	
Ports	24 RJ-45 autosensing 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 4 fixed Gigabit Ethernet SFP ports 2 SFP+ 10GbE ports 2 port expansion module slots Supports a maximum of 38 autosensing 100/1000 ports, with optional module
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Safety certifications	
Safety	UL 60950-1 EN 60825-1 Safety of Laser Products-Part 1 EN 60825-2 Safety of Laser Products-Part 2 IEC 60950-1 EN 60950-1 CAN/CSA-C22.2 No. 60950-1 FDA 21 CFR Subchapter J ROHS Compliance AS/NZS 60950-1 GB 4943
Emissions	EN 55022 Class A CISPR 22 Class A EN 55024 ICES-003 Class A CISPR 24 AS/NZS CISPR 22 Class A EN 61000-3-2 EN 61000-3-3 GB9254 VCCI-3 CLASS A VCCI-4 CLASS A ETSI EN 300 386 FCC Part 15 (CFR 47) CLASS A YD/T993
Standards and protocols	

BGP	RFC 1657 Definitions of Managed Objects for BGPv4 RFC 1771 BGPv4 RFC 2385 BGP Session Protection via TCP MD5 RFC 2858 BGP-4 Multi-Protocol Extensions
Device management	RFC 1157 SNMPv1/v2c RFC 1305 NTPv3 RFC 1901 (Community based SNMPv2) RFC 2452 MIB for TCP6 RFC 2454 MIB for UDP6 RFC 2573 (SNMPv3 Applications) RFC 2576 (Coexistence between SNMP V1, V2, V3) RFC 2819 (RMON groups Alarm, Event, History and Statistics only) RFC 3410 (Management Framework) RFC 3416 (SNMP Protocol Operations v2) RFC 3417 (SNMP Transport Mappings) HTML and telnet management Multiple Configuration Files SNMP v3 and RMON RFC support SSHv1/SSHv2 Secure Shell

General protocols	IEEE 802.1ad Q-in-Q IEEE 802.1D MAC Bridges IEEE 802.1p Priority IEEE 802.1Q (GVRP) IEEE 802.1w Rapid Reconfiguration of Spanning Tree IEEE 802.3ab 1000BASE-T IEEE 802.3ad Link Aggregation (LAG) IEEE 802.3ae 10-Gigabit Ethernet IEEE 802.3af Power over Ethernet IEEE 802.3i 10BASE-T IEEE 802.3u 100BASE-X IEEE 802.3x Flow Control IEEE 802.3z 1000BASE-X RFC 768 UDP RFC 791 IP RFC 792 ICMP RFC 793 TCP RFC 854 TELNET RFC 925 Multi-LAN Address Resolution RFC 950 Internet Standard Subnetting Procedure RFC 951 BOOTP RFC 1058 RIPv1 RFC 1122 Host Requirements RFC 1141 Incremental updating of the Internet checksum RFC 1213 Management Information Base for Network Management of TCP/IP-based internets RFC 1256 ICMP Router Discovery Protocol (IRDP) RFC 1305 NTPv3 RFC 1350 TFTP Protocol (revision 2) RFC 1519 CIDR RFC 1542 BOOTP Extensions RFC 1723 RIP v2 RFC 1812 IPv4 Routing RFC 1887 An Architecture for IPv6 Unicast Address Allocation RFC 2131 DHCP RFC 2236 IGMP Snooping RFC 2338 VRRP RFC 2375 IPv6 Multicast Address Assignments RFC 2616 Hypertext Transfer Protocol -- HTTP/1.1 RFC 2644 Directed Broadcast Control RFC 2865 Remote Authentication Dial In User Service (RADIUS) RFC 2866 RADIUS Accounting RFC 3246 Expedited Forwarding PHB RFC 3410 Applicability Statements for SNMP RFC 3414 User-based Security Model (USM) for version 3 of the Simple Network Management Protocol (SNMPv3) RFC 3415 View-based Access Control Model (VACM) for the Simple Network Management Protocol (SNMP) RFC 3417 Transport Mappings for the Simple Network Management Protocol (SNMP) RFC 3484 Default Address Selection for Internet Protocol version 6 (IPv6) RFC 3493 Basic Socket Interface Extensions for IPv6 RFC 3542 Advanced Sockets Application Program Interface (API) for IPv6 RFC 3587 IPv6 Global Unicast Address Format RFC 3596 DNS Extensions to Support IP Version 6 RFC 3623 Graceful OSPF Restart RFC 3704 Unicast Reverse Path Forwarding (URPF) RFC 3768 Virtual Router Redundancy Protocol (VRRP) RFC 3810 Multicast Listener Discovery Version 2 (MLDv2) for IPv6 RFC 4113 Management Information Base for the User Datagram Protocol (UDP) RFC 4213 Basic IPv6 Transition Mechanisms RFC 4443 Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification RFC 4762 Virtual Private LAN Service (VPLS) Using Label Distribution Protocol (LDP) Signaling 802.1r - GARP Proprietary Attribute Registration Protocol (GPRP)

IP multicast	RFC 2236 IGMPv2 RFC 2710 Multicast Listener Discovery (MLD) for IPv6 RFC 2858 Multiprotocol Extensions for BGP-4 RFC 3376 IGMPv3 RFC 3569 An Overview of Source-Specific Multicast (SSM) RFC 3618 Multicast Source Discovery Protocol (MSDP) RFC 3973 PIM Dense Mode RFC 4601 PIM Sparse Mode
IPv6	RFC 1881 IPv6 Address Allocation Management RFC 1887 IPv6 Unicast Address Allocation Architecture RFC 1981 IPv6 Path MTU Discovery RFC 2080 RIPng for IPv6 RFC 2373 IPv6 Addressing Architecture RFC 2375 IPv6 Multicast Address Assignments RFC 2460 IPv6 Specification RFC 2461 IPv6 Neighbor Discovery RFC 2462 IPv6 Stateless Address Auto-configuration RFC 2463 ICMPv6 RFC 2464 Transmission of IPv6 over Ethernet Networks RFC 2475 IPv6 DiffServ Architecture RFC 2710 Multicast Listener Discovery (MLD) for IPv6 RFC 2740 OSPFv3 for IPv6 RFC 2893 Transition Mechanisms for IPv6 Hosts and Routers RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations (Ping only) RFC 3162 RADIUS and IPv6 RFC 3306 Unicast-Prefix-based IPv6 Multicast Addresses RFC 3307 IPv6 Multicast Address Allocation RFC 3315 DHCPv6 (client and relay) RFC 3484 Default Address Selection for IPv6 RFC 3493 Basic Socket Interface Extensions for IPv6 RFC 3513 IPv6 Addressing Architecture RFC 3542 Advanced Sockets API for IPv6 RFC 3587 IPv6 Global Unicast Address Format RFC 3596 DNS Extension for IPv6 RFC 3810 MLDv2 for IPv6 RFC 4113 MIB for UDP RFC 4443 ICMPv6
MIBs	RFC 1212 Concise MIB Definitions RFC 1213 MIB II RFC 1657 BGP-4 MIB RFC 1724 RIPv2 MIB RFC 1757 Remote Network Monitoring MIB RFC 1850 OSPFv2 MIB RFC 2012 SNMPv2 MIB for TCP RFC 2013 SNMPv2 MIB for UDP RFC 2233 Interface MIB RFC 2452 IPV6-TCP-MIB RFC 2454 IPV6-UDP-MIB RFC 2465 IPv6 MIB RFC 2466 ICMPv6 MIB RFC 2571 SNMP Framework MIB RFC 2572 SNMP-MPD MIB RFC 2573 SNMP-Target MIB RFC 2574 SNMP USM MIB RFC 2618 RADIUS Authentication Client MIB RFC 2620 RADIUS Accounting Client MIB RFC 2787 VRRP MIB RFC 2819 RMON MIB RFC 2925 Ping MIB RFC 3414 SNMP-User based-SM MIB RFC 3415 SNMP-View based-ACM MIB RFC 4113 UDP MIB

Network management	IEEE 802.1AB Link Layer Discovery Protocol (LLDP) IEEE 802.1D (STP) RFC 1157 SNMPv1 RFC 1212 Concise MIB definitions RFC 1215 Convention for defining traps for use with the SNMP RFC 1757 RMON 4 groups: Stats, History, Alarms and Events RFC 1901 SNMPv2 Introduction RFC 1918 Private Internet Address Allocation RFC 2373 Remote Network Monitoring Management Information Base for High Capacity Networks RFC 2571 An Architecture for Describing SNMP Management Frameworks RFC 2572 Message Processing and Dispatching for the Simple Network Management Protocol (SNMP) RFC 2573 SNMP Applications RFC 2574 SNMPv3 User-based Security Model (USM) RFC 2575 SNMPv3 View-based Access Control Model (VACM) RFC 2576 Coexistence between SNMP versions RFC 2578 SMIv2 RFC 2581 TCP6 RFC 2819 Remote Network Monitoring Management Information Base RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations RFC 3176 sFlow RFC 3410 Introduction to Version 3 of the Internet-standard Network Management Framework RFC 3414 SNMPv3 User-based Security Model (USM) RFC 3415 SNMPv3 View-based Access Control Model (VACM) ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) SNMPv1/v2c/v3
OSPF	RFC 1587 OSPF NSSA RFC 1850 OSPFv2 Management Information Base (MIB), traps RFC 2370 OSPF Opaque LSA Option
QoS/CoS	IEEE 802.1P (CoS) RFC 2474 DSCP DiffServ 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 1918 Address Allocation for Private Internets RFC 2865 RADIUS Authentication RFC 2866 RADIUS Accounting Access Control Lists (ACLs) MAC Authentication Port Security SSHv2 Secure Shell

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