

J9584A Datasheet

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Overview

Aruba 3800 Series switches are fully managed advanced Layer 3 Gigabit switches, utilizing tailored ProVision ASICs, with meshed stacking technology for highest performance and resiliency. This J9584A has 24 x SFP 100/1000 ports with 2 x 10GbE SFP+ uplinks.

Quick Spec

Figure 1 shows the appearance of Aruba J9584A.



Table 1 shows the quick spec.

Product Code	J9584A
Type	HP E3800-24SFP-2SFP+ Switch
Ports	24 x SFP 100/1000 Mb/s ports (IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) Duplex: 100BASE-TX: half or full 1000BASE-T: full only 2 x fixed 1000/10000 SFP+ ports 1 x RJ-45 serial console port 1 x RJ-45 out-of-band management port 1 x Stacking module slot
Throughput (64-byte packets)	65.4 million packets per sec
Switching capacity	88 Gb/s
Dimensions (W x D x H)	46.74 x 44.27 x 4.32 cm (18.4 x 17.43 x 1.7 in) (1U height)
Weight	7.26 kg (16.01 lb)

Product Details

Figure 2 shows the front panel of Aruba J9584A.



Note:

(1)	Console port
(2)	USB port
(3)	24 × SFP 100/1000 Mb/s ports
(4)	2 × fixed 1000/10000 SFP+ ports
(5)	Out-of-Band Management port

Figure 3 shows the back panel of Aruba J9584A.



Note:

(1)	AC power connector
(2)	Secondary power supply slot
(3)	Stacking Module slot
(4)	Fan tray
(5)	Grounding lug mounting hole

Compare to Similar Items

Table 2 shows the comparison.

Product Code	J9575A	J9576A	J9584A	J9585A	J9586A
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Type	Aruba 3800 24G 2SFP+ Switch	Aruba 3800 48G 4SFP+ Switch	HP E3800-24SFP-2SFP+ Switch	HP 3800-24G-2XG Switch	HP E3800-48G-4XG Switch
Throughput (64-byte packets)	65.4 million packets per sec	130.9 million packets per sec	65.4 million packets per sec	65.4 million packets per sec	130.9 million packets per sec
Switching capacity	88 Gb/s	176 Gb/s	88 Gb/s	88 Gb/s	176 Gb/s

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Specification

J9584A Specification	
Type	HP E3800-24SFP-2SFP+ Switch
Physical specifications	
Dimensions (D X W X H)	46.74 x 44.27 x 4.32 cm (18.4 x 17.43 x 1.7 in) (1U height)
Weight	7.26 kg (16.01 lb)
Technical specifications	
Fan tray	1 x J9582A 1 fan tray slot
Memory and processor	HPE ProVision ASIC/ARM @ 350 MhzHP ProVision ASIC/ARM @ 350 Mhz Freescale PowerPC @ 1200 MHz, 4 GB flash, 2 GB SDRAM Packet buffer size: 18MB dynamic
Ports	24 SFP 100/1000 Mb/s ports (IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T) Duplex: 100BASE-TX: half or full 1000BASE-T: full only 2 fixed 1000/10000 SFP+ ports 1 RJ-45 serial console port 1 RJ-45 out-of-band management port 1 Stacking module slot
Electrical specifications	
Power supplies (2 power supply slots 1 minimum power supply required includes)	1 x J9581A (HP X311 400 W 100-240 V ac to 12 V dc power supply)
Maximum heat dissipation	434 BTU/hr (457.87 kJ/hr)
Voltage	100-127/200-240 V ac
Current	6/3 A
Idle power	55 W
Maximum power rating	127 W
PoE power	-
Frequency	50/60 Hz
Environmental specifications	
Operating temperature	0° to 45°C (32° to 113°F)

Operating relative humidity	15% to 95% @ 40°C (104°F), noncondensing
Nonoperating/Storage temperature	-40° to 70°C (-40° to 158°F)
Nonoperating/Storage relative humidity	15% to 90% @ 65°C (149°F), noncondensing
Altitude	Up to 3 km (10,000 ft)
Acoustic	Power: 36 dB, Pressure: 25 dB
Performance specifications	
1000Mb latency	<2.8 µs (LIFO 64-byte packets)
10 Gb/s latency	<1.9 µs (LIFO 64-byte packets)
Throughput (64-byte packets)	65.4 million packets per sec
Switching capacity	88 Gb/s
Routing table size	10000 entries
MAC address table size	65500 entries
Immunity specifications	
EN	EN 55024, CISPR 24
ESD	IEC 61000-4-2
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 or 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% reductions, 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
Safety certifications	
Safety	EN 60950/IEC 60950; UL 60950; CAN/CSA 22.2 No. 60950; EN 60825
Emissions	FCC Class A; VCCI Class A; EN 55022/CISPR 22 Class A
Standards and protocols	
Device management	RFC 1591 DNS (client) RFC 2576 (Coexistence between SNMP V1, V2, V3) RFC 2579 (SMIv2 Text Conventions) RFC 2580 (SMIv2 Conformance) RFC 3416 (SNMP Protocol Operations v2) RFC 3417 (SNMP Transport Mappings) 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 3575 IANA Considerations for RADIUS RFC 3576 Ext to RADIUS (CoA only) RFC 3768 VRRP RFC 4675 RADIUS VLAN & Priority RFC 3768 VRRP RFC 4675 RADIUS VLAN & Priority RFC 5798 VRRP (exclude Accept Mode and sub-sec timer) RFC 5905 Network Time Protocol Version 4: Protocol and Algorithms Specification 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 2080 RIPng for IPv6 RFC 2081 RIPng Protocol Applicability Statement RFC 2082 RIP-2 MD5 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 Remote Operations MIB (Ping only) RFC 3019 MLDv1 MIB RFC 3315 DHCPv6 (client only) RFC 3484 Default Address Selection for IPv6 RFC 3587 IPv6 Global Unicast Address Format RFC 3596 DNS Extension for IPv6 RFC 3810 MLDv2 (host joins only) 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 Auto-configuration 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 RFC 6620 FCFS SAVI draft-ietf-savi-mix
MIBs	IEEE 802.1ap (MSTP and STP MIB's only) IEEE 8021-Bridge-MIB (2008) IEEE 8021-Q-Bridge-MIB (2008) RFC 1155 Structure & ID of Mgmt Info for TCP/IP Internets 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 2932 IP (Multicast Routing MIB) RFC 2933 IGMP MIB RFC 4836 Managed Objects for 802.3 Medium Attachment Units (MAU)

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 RFC 3411 SNMP Management Frameworks RFC 3412 Message Processing and Dispatching for the Simple Network Management Protocol (SNMP) RFC 3413 Simple Network Management Protocol (SNMP) Applications 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) ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) RFC 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP) RFC 5424 Syslog Protocol ANSI/TIA-1057 LLDP Media Endpoint Discovery (LLDP-MED) SNMPv1/v2c/v3 XRMON
OSPF	RFC 2328 OSPFv2 RFC 3101 OSPF NSSA RFC 3623 Graceful OSPF Restart (Unplanned Outages only) RFC 5340 OSPFv3 for IPv6
QoS/CoS	RFC 2474 DiffServ Precedence, including 8 queues/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 1321 The MD5 Message-Digest Algorithm RFC 1492 TACACS+ RFC 2818 HTTP Over TLS RFC 2865 RADIUS (client only) RFC 2866 RADIUS Accounting RFC 3579 RADIUS Support For Extensible Authentication Protocol (EAP) Access Control Lists (ACLs) MAC Authentication MAC Lockdown MAC Lockout Port Security Secure Sockets Layer (SSL) SSHv1/SSHv2 Secure Shell SSHv2 Secure Shell Web Authentication

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