

HPE Aruba 6300M (JL658A)

HPE Aruba 6300M - Switch - L3 - Managed - 24 x 1 Gigabit / 10 Gigabit SFP+ + 4 x 1 Gigabit / 10 Gigabit / 25 Gigabit / 50 Gigabit SFP56 (uplink / stacking) - front and side to back - rack-mountable



The HPE Aruba 6300M is designed to meet the demands of modern networking with its features and performance. It supports switched virtual interfaces (SVIs) and offers extensive IPv4 and IPv6 host table capacities, ensuring a seamless networking experience. The device includes various routing protocols such as BGP-4, OSPFv2, and VRRP, allowing for dynamic and efficient traffic management while maintaining high availability. With a total switching capacity of 200 Gbps and support for jumbo frames, the HPE Aruba 6300M can handle significant data loads effortlessly. Its stackable design and rack-mountable form factor enable efficient use of space and easy integration into existing setups. Additionally, features like VLAN support, access control lists, and quality of service (QoS) enhance security and performance for varied networking environments.

Key Selling Points

- Supports extensive IPv4 and IPv6 host table capacities
- Dynamic routing protocols for efficient traffic management
- 200 Gbps total switching capacity
- Rack-mountable and stackable design for space efficiency
- Includes advanced security features like access control lists and VLAN support

Product Features

- Robust switching capacity**
With a total switching capacity of 200 Gbps, the HPE Aruba 6300M is capable of handling high data loads efficiently, making it suitable for demanding network environments.
- Advanced routing capabilities**
The device features support for multiple routing protocols including BGP-4, OSPFv2, and VRRP, allowing for flexible and intelligent traffic management across the network.
- High availability support**
Built with high availability features, this switch ensures consistent performance and minimal downtime, crucial for mission-critical applications.
- Comprehensive security features**
The HPE Aruba 6300M supports advanced security measures such as access control lists, VLAN tagging, and DHCP protection, providing a secure networking environment.
- Flexible management options**
The switch offers various remote management protocols, including SNMP and CLI, enabling easy monitoring and configuration based on the user's needs.

Main specifications

Product Description	HPE Aruba 6300M - switch - 24 ports - Managed - rack-mountable
Device Type	Switch - 24 ports - L3 - Managed - stackable
Enclosure Type	Front and side to back rack-mountable 1U
Subtype	10 Gigabit Ethernet
Ports	24 x 1 Gigabit / 10 Gigabit SFP+ + 4 x 1 Gigabit / 10 Gigabit / 25 Gigabit / 50 Gigabit SFP56 (uplink / stacking)
Performance	Switching capacity: 880 Gbps Throughput: 654 Mpps Latency (1 Gbps): 1.99 μs Latency (10 Gbps): 1.49 μs Latency (25 Gbps): 2.85 μs Latency (50 Gbps): 2.82 μs Stacking bandwidth: 200 Gbps
Capacity	Switched virtual interfaces (SVIs): 1000 IPv4 host table capacity: 32000 IPv6 host table capacity: 32000 IPv4 routes (Unicast): 64000 IPv6 routes (Unicast): 32000 IPv4 routes (Multicast): 8000 IPv6 routes (Multicast): 8000 IGMP groups: 8000 MLD groups: 4000 IPv4 ACL entries (ingress): 5000 IPv6 ACL entries (ingress): 1250 MAC ACL entries (ingress): 5000 IPv4 ACL entries (egress): 2000 IPv6 ACL entries (egress): 500 MAC ACL entries (egress): 2000
MAC Address Table Size	32000 entries
Jumbo Frame Support	9198 bytes
Routing Protocol	EGP, BGP-4, IGMPv2, IGMP, VRRP, OSPFv2, IGMPv3, OSPFv3, MSDP, static IPv6 routing, ECMP, MLD, Bidirectional Forwarding Detection (BFD)
Remote Management Protocol	RMON, Telnet, SNMP 3, SNMP 2c, HTTPS, TFTP, SSH, CLI, XRMON, SFTP

Features	DHCP support, ARP support, VLAN support, auto-uplink (auto MDI/MDI-X), IGMP snooping, Syslog support, High Availability, PVST, MSTP support, ACL support, QoS, Jumbo Frames support, MLD snooping, UDLD, Rapid PVST+, DWRR, LLDP support, MIB, DHCP protection, dual firmware images, MVRP, packet storm protection, CoS, SP, broadcast storm protection, ToS, BPDU, VXLAN, Multicast Storm Protection, NTP, RA guard, ZTP, PIM, VLAN Tagging, Rapid Reconfiguration of Spanning Tree (RSTP), IPv4 and IPv6 dual stack, IP multicast, Aruba VSF, dynamic IPv6 lockdown, ND snooping, Unicast Storm protection, Microsoft NLB
Compliant Standards	IEEE 802.1D, IEEE 802.1Q, IEEE 802.1p, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.3ae, IEEE 802.1s, IEEE 802.1t, IEEE 802.1v, IEEE 802.1ab (LLDP), IEEE 802.1ak, IEEE 802.1AX
Dimensions (WxDxH)	44.2 cm x 38.5 cm x 4.4 cm
Weight	5.8 kg
Manufacturer Warranty	Limited lifetime warranty

Extended specification

General

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Remote Management Protocol	RMON, Telnet, SNMP 3, SNMP 2c, HTTPS, TFTP, SSH, CLI, XRMON, SFTP
Authentication Method	Secure Shell (SSH), RADIUS, TACACS+
Features	DHCP support, ARP support, VLAN support, auto-uplink (auto MDI/MDI-X), IGMP snooping, Syslog support, High Availability, PVST, MSTP support, ACL support, QoS, Jumbo Frames support, MLD snooping, UDLD, Rapid PVST+, DWRR, LLDP support, MIB, DHCP protection, dual firmware images, MVRP, packet storm protection, CoS, SP, broadcast storm protection, ToS, BPDU, VXLAN, Multicast Storm Protection, NTP, RA guard, ZTP, PIM, VLAN Tagging, Rapid Reconfiguration of Spanning Tree (RSTP), IPv4 and IPv6 dual stack, IP multicast, Aruba VSF, dynamic IPv6 lockdown, ND snooping, Unicast Storm protection, Microsoft NLB
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Processor	1 x ARM Cortex-A72: 1.78 GHz
RAM	8 GB DDR4 SDRAM
Flash Memory	32 GB

Expansion / Connectivity

Interfaces	24 x Gigabit / 10Gbit LAN SFP+ ¦ 4 x 1Gbit/10Gbit/25Gbit/50Gbit SFP56 ¦ 1 x USB-C console ¦ 1 x management ¦ 1 x USB Type A
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Manufacturer Warranty

Service & Support	Limited warranty - lifetime
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Miscellaneous

Rack Mounting Kit	Included
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Compliant Standards	FCC Class A certified, CISPR 22 Class A, EN 61000-3-2, IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-11, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, EN 61000-3-3, FCC Part 15, ICES-003 Class A, RoHS, WEEE, CAN/CSA C22.2 No. 60950-1-07, VCCI Class A, EN 50581:2012, IEC 60950-1:2005, EN 61000-3-3:2013, CISPR 24:2010, EN 55022:2010, EN 61000-3-2:2014, EN 60825-1:2007, IEC 60825-1:2007 Class 1, EN 55032:2012 Class A, CISPR 32 Class A, UL/CSA60950-1 (2nd Edition), CISPR 35, EN 55024:2010 Class A, EN 55035:2017, EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013
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Environmental Parameters

Min Operating Temperature	0 °C
Max Operating Temperature	45 °C
Humidity Range Operating	15 - 95% (non-condensing)
Min Storage Temperature	-40 °C
Max Storage Temperature	70 °C
Humidity Range Storage	15 - 95% (non-condensing)

Dimensions & Weight

Width	44.2 cm
Depth	38.5 cm
Height	4.4 cm
Weight	5.8 kg

Product data is provided by CNET, we do not warrant the accuracy and completeness of the material contained in this data sheet