

Aruba JL320A

Datasheet

Product Overview

- The HPE Aruba Networking 2930M Series, including model JL320A, delivers enterprise-grade Layer 3 access for mobile-first, cloud-managed networks.
- Ideal for branch offices, midsize campuses, schools, and distributed enterprises that need reliable wired access for users, APs, and IoT devices.
- It offers 24 Gigabit access ports with PoE+, robust Layer 3 routing, and high-performance stacking to support growing traffic and connected devices.
- Key differentiators include Smart Rate multi-gig uplinks, dual modular power supplies, and IEEE 802.3bt-ready PoE for higher-power endpoints.
- Zero-touch deployment, Aruba Central cloud management, and ClearPass integration simplify provisioning, policy enforcement, and ongoing operations.
- JL320A helps build a secure, scalable access layer that supports Wi-Fi 6, IP surveillance, VoIP, and future digital workplace services over existing cabling.

Product Highlights

- **Enterprise Layer 3 Access:** Provides full Layer 3 switching with ACLs, robust QoS, and routing protocols such as static routes, RIP, and Access OSPF for scalable campus access.
- **Scalable VSF Stacking:** Supports backplane VSF stacking of up to 10 switches and as many as 480 downlink ports, with flexible 1GbE, 10GbE and Smart Rate multi-gig options.
- **Modular High-Speed Uplinks:** Offers modular 10GbE SFP+ with MACsec, 1/2.5/5/10GbE Smart Rate, and 40GbE QSFP+ uplink modules to grow bandwidth as the network expands.
- **PoE and SDN-Ready Design:** Delivers PoE/PoE+ up to 60W per port with fieldreplaceable PSUs, plus programmable ASIC, REST APIs, and OpenFlow for SDN and automation.

Detailed Features



JL320A

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Component	Specification
Product Type	Rack-mountable Layer 3 Gigabit PoE+ switch
Downlink Ports	20 × 10/100/1000Base-T PoE+ RJ-45
Uplink Ports	4 × combo Gigabit SFP
PoE Budget	Up to 720 W PoE+ power
Stacking	1 × stacking slot, VSF stackable design



Programmable SDN Integration

The JL320A supports multiple programmatic interfaces including REST APIs and OpenFlow 1.0/1.3, enabling centralized controllers or orchestration platforms to push policies, adjust forwarding behavior, and collect telemetry in real time. This openness allows IT teams to automate repetitive tasks, speed up configuration changes, and integrate the switch into broader software-defined data and campus network designs.

Unified Wired and Wireless Policies

Through tight integration with HPE Aruba Networking NAC and controllers, the switch enforces a single policy framework for both wired and wireless users. When Aruba access points connect, the switch can auto-configure VLANs, QoS, and PoE parameters. User roles map device identity and authentication results to a consistent set of permissions, reducing configuration drift and simplifying large multi-site WLAN and LAN deployments.

Dynamic Segmentation Security

Dynamic segmentation builds encrypted tunnels on a per-port or per-user-role basis from the switch to an Aruba Controller. Roles and policies, downloaded from Aruba NAC, define which applications and destinations are allowed. Layer 7 inspection and role-based access control provide granular separation between user groups and IoT devices, limiting lateral movement and improving compliance without complex VLAN designs.

Advanced QoS and Traffic Control

The JL320A offers rich QoS, including IEEE 802.1p traffic classification into eight queues, Layer 4 prioritization, and DiffServ support. Administrators can rate-limit ingress traffic per port and configure per-queue minimums to protect key services. Large buffers and Unknown Unicast Rate Limiting help maintain voice and video quality during bursts, while CoS tagging enforces consistent prioritization across the entire campus network.

High-Performance Multigig Connectivity

With support for HPE Smart Rate multi-gigabit Ethernet (IEEE 802.3bz), the series can deliver 1/2.5/5/10Gbps over existing copper cabling. Flexible configurations such as models with 24 Smart Rate ports or mixed 40 Gigabit and Smart Rate ports allow IT to upgrade APs and IoT devices without recabling, while optional Smart Rate modules extend multi-gig capability across the stack.

Flexible 10G and 40G Uplinks with PoE

Modular 4-port 10G SFP+ uplinks, optional 40G QSFP+ ports, and IEEE 802.3bt Class 6 PoE providing up to 60W per port make JL320A suitable for dense AP, camera, and phone deployments. IEEE 802.3at PoE+ up to 30W and support for pre-standard PoE protect investments in legacy endpoints. Auto-MDIX simplifies cabling and reduces installation errors across 10/100/1000 interfaces.

Dual-Stack IPv4/IPv6 Readiness

The switch operates as an IPv6 host and supports dual-stack routing for IPv4 and IPv6, easing migrations in mixed networks. Features such as MLD snooping, IPv6 ACLs and QoS, static IPv6 routes, RIPng and OSPFv3 deliver full Layer 3 capability in modern IP environments. Security mechanisms like RA guard, DHCPv6 protection, dynamic IPv6 lockdown, and ND snooping mitigate common IPv6-specific attacks.

Energy-Efficient ProVision ASIC

Built on the latest HPE Aruba Networking ProVision ASIC, the JL320A combines low latency with adaptive power consumption. Energy-Efficient Ethernet (IEEE 802.3az) reduces power draw during low traffic periods, while 80 PLUS Gold and Platinum certified power supplies improve overall system efficiency. Selectable queue configurations let administrators tune buffering and queue counts per deployment, aligning performance with application requirements.

Technical Specifications

Product Specifications

Feature	Value
Type	Switch
Subcategory	Network hubs and switches
Subtype	Gigabit Ethernet
Form Factor	Rack-mountable
Stackable	Stackable
Ports Qty	24



Feature	Value
Advanced Switching	Layer 3
Routing Protocol	CIDR, ECMP, IGMP, IGMPv2, IGMPv3, MLD, OSPF, OSPFv2, OSPFv3, RIP, RIP-1, RIP-2, RIPng, Static IP routing, Static IPv4 routing, Static IPv6 routing
MAC Address Table Size	32768 entries
Jumbo Frame Support	9220 bytes
Manageable	Yes
Remote Management Protocol	CLI, HTTP, RMON 1, SNMP, SNMP 1, SNMP 2, SNMP 2c, SNMP 3, SSH, SSH-2, Telnet, XRMON
Power Over Ethernet (PoE)	PoE+
PoE Budget	720 watt
Features	Access Control List (ACL) support, ARP support, BOOTP support, Class of Service (CoS), CPU protection, DHCP protection, DHCP server, DHCP support, DiffServ support, Dynamic ARP protection, Dynamic VLAN Support (GVRP), Flow control, Full duplex capability, ICMP Router Discovery Protocol (IRDP), IGMP snooping, Internet Control Message Protocol (ICMP), IPv6 support, Jumbo Frames support, Link Aggregation Control Protocol (LACP), LLDP support, LLDP-MED, MAC address lockout, Management Information Base (MIB), Management Information Base (MIB) II, MLD snooping, Multiple Spanning Tree Protocol (MSTP) support, Multiple VLAN Registration Protocol (MVRP), Neighbor Discovery Protocol (NDP), OpenFlow support, Quality of Service (QoS), sFlow, STP support, Spanning Tree Protocol (STP) support, STP BPDU Guard, STP Root Guard, Syslog support, Type of Service (ToS), Uni-Directional Link Detection (UDLD), Virtual Extensible LAN (VXLAN), VLAN support
Compliant Standards	IEEE 802.1ab (LLDP), IEEE 802.1ad, IEEE 802.1AX, IEEE 802.1D, IEEE 802.1p, IEEE 802.1Q, IEEE 802.1s, IEEE 802.1v, IEEE 802.1w, IEEE 802.1x, IEEE 802.3ab, IEEE 802.3ad (LACP), IEEE 802.3af, IEEE 802.3at, IEEE 802.3az, IEEE 802.3bz, IEEE 802.3x
Ports - Qty	20
Ports - Type	10/100/1000 (PoE+)
Ports (2nd) - Qty	4
Ports (2nd) - Type	Combo Gigabit SFP
Expansion Slots	1 (total) / 1 (free) x expansion slot, 1 (total) / 1 (free) x Stacking Module slot
Interface Provided - Interfaces	1 x 1000Base-T management, 1 x serial (console), 1 x USB Type B, 20 x 1000Base-T RJ-45 PoE+, 4 x 1000Base-T



Feature	Value
Power Device - Type	Internal power supply, Internal power supply (not installed)
Power Device - Installed Qty	0
Power Device - Max Supported Qty	2
Power Device - Nominal Voltage	AC 120/230 V
Power Device - Frequency Required	50/60 hertz
Power Device - 80 PLUS Certification	80 PLUS Silver
Dimensions - Width	17.4 inch
Dimensions - Depth	12.8 inch
Dimensions - Height	1.7 inch

Product Comparison

Feature	JL320A	C9300-24P-A	C9200L-24PXG-2Y-E
Fixed Ports	20 × 10/100/1000Base-T PoE+ + 4 × combo SFP	24 × 10/100/1000 PoE+	24 × 1G/2.5G/5G/10G mGig + 4 × 10G SFP+
Layer	Layer 3 access	Layer 3 advanced access/ aggregation	Layer 3 access
PoE Capability	PoE+ with up to 720 W budget	Full PoE+ with advanced power management	Full PoE+ on mGig ports, high total budget
Stacking	1 × stacking slot, VSF stackable	StackWise-480 stacking, high resiliency	StackWise-160/320 stacking (model dependent)
Uplink Options	Combo Gigabit SFP, modular 10G/40G options in series	Fixed 4 × 1G/10G SFP+ uplinks	Fixed 4 × 10G SFP+ uplinks
Management	CLI, Web, SNMP, OpenFlow, REST APIs in series	IOS XE with Web UI, CLI, SNMP, NETCONF	IOS XE with Web UI, CLI, SNMP, NETCONF
Target Scenario	Campus/branch access with Aruba WLAN integration	Enterprise access/ aggregation with rich services	mGig access for Wi-Fi 6E and high-density PoE



Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none">- Rack mounting kit- Console cable- Documentation
Optional Accessories	<ul style="list-style-type: none">- Hot-swappable internal power supply modules- 10GbE SFP+/40GbE QSFP+ uplink modules- Compatible SFP transceivers and DAC cables



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References

[1] Hewlett Packard Enterprise. (2023). JL320A Specification HPE Aruba Networking 2930M Switch Series. Retrieved from <https://www.hpe.com/psnow/doc/a00001978enw>