

# Aruba JL319A

## Datasheet



## Product Overview

- Aruba 2930M Series switches, including the JL319A, deliver Layer 3 access for modern digital workplaces with converged wired and wireless.
- Designed for mobile-first campuses, branch offices, and mid-sized enterprises that need secure, high-performance edge connectivity for users and IoT.
- Key hardware includes wire-speed 10GbE and 40GbE uplinks, high-performance Aruba ProVision ASIC, and scalable stacking of up to 10 switches.
- Differentiated features include IEEE 802.3bt Class 6 PoE up to 60W per port, HPE Smart Rate multi-gigabit ports, and dynamic segmentation for secure access.
- Zero-touch deployment, Aruba Central cloud management, and ClearPass Policy Manager integration simplify rollout, security, and ongoing operations.
- Ideal as a powerful access layer, JL319A helps IT quickly build secure, scalable campus and branch networks with minimal on-site expertise.

## Product Highlights

- **Enterprise Layer 3 Access:** Delivers Layer 3 routing with ACLs, robust QoS, and support for static, RIP, and Access OSPF, ideal for enterprise edge and campus.
- **Scalable VSF Stacking:** Supports up to 10-member VSF backplane stacking and as many as 480 downlink ports with 1GbE, 10GbE, and HPE Smart Rate multi-gigabit options.
- **Flexible Modular Uplinks:** Offers modular uplinks including 4x 10GbE SFP+ with MACsec, 4x 1/2.5/5/10GbE Smart Rate, and 1x 40GbE QSFP+ for seamless growth.
- **PoE and SDN-Ready Design:** Field-replaceable PSUs with Class 4 (30W) and Class 6 (60W) PoE plus programmable ASIC, REST APIs, and OpenFlow for SDN integration.

## Detailed Features



JL319A

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Component	Specification
Ports	(20) RJ-45 autosensing 10/100/1000 ports; (4) dual-personality 10/100/1000BASE-T or 100/1000 Mbps SFP
Memory and Processor	Dual Core ARM Cortex A9 @ 1016 MHz, 1 GB DDR3 SDRAM, 4 GB eMMC
Performance	Throughput up to 95.2 Mpps; Switching capacity 128 Gbps
Latency	1000 Mb: < 3.1 µs; 10 Gbps: < 3.4 µs



Component	Specification
Management	CLI, Web GUI, Aruba AirWave, Aruba Central, IMC, SNMP, Telnet, RMON1, out-of-band (RS-232C/micro USB)



## Open Programmable Networking

JL319A supports REST APIs and OpenFlow 1.0/1.3, enabling integration with software-defined network controllers and orchestration tools. Operators can automate provisioning, monitoring, and troubleshooting workflows, reduce manual CLI tasks, and build custom applications that leverage telemetry and policy control for more agile operations.

## Unified Access Policies

By working with HPE Aruba Networking NAC, the switch enforces unified wired and wireless policies. It supports automatic configuration when Aruba APs are detected, setting VLAN, CoS, and PoE parameters. Centralized user roles define security, authentication, and QoS rules that can be applied locally or downloaded, ensuring consistent access control.

## Dynamic Segmentation Security

Dynamic segmentation applies user-, device-, and application-aware policies across wired and wireless networks. The JL319A uses automated device profiling, role-based access control, and Layer 7 firewall capabilities to isolate traffic and protect critical resources. This model reduces VLAN sprawl and simplifies access design while keeping security strong.

## Secure Tunneled Access

For enhanced security, per-port or per-user role traffic can be tunneled to an Aruba Controller using a secure overlay. In Tunnel Node mode, users authenticate via Aruba NAC and are directed either to a controller or switched locally. This architecture centralizes policy enforcement, simplifies remote branch design, and maintains consistent user experience.

## Granular QoS and Traffic Control

The switch offers advanced QoS with IEEE 802.1p classification into eight queues, Layer 4 prioritization by TCP/UDP ports, and CoS marking based on IP and DiffServ fields. Rate limiting per port and per queue, large packet buffers, and unknown unicast rate limiting help manage congestion and protect critical voice and video traffic.

## High-Performance Connectivity Options

HPE Smart Rate multi-gigabit Ethernet (IEEE 802.3bz) supports high-speed APs and IoT endpoints using existing cabling. Flexible 10GbE SFP+ and 40GbE QSFP+ uplinks, plus optional Smart Rate modules and 802.3bt Class 6 PoE up to 60W per port, give designers freedom to build scalable, high-density access layers.

## IPv6-Ready Routing and Security

JL319A includes dual-stack IPv4/IPv6, IPv6 host management, and routing with Static, RIPng, and OSPFv3. Features such as RA guard, DHCPv6 protection, dynamic IPv6 lockdown, ND snooping, MLD snooping, and IPv6 ACL/QoS ensure secure and efficient multicast and unicast forwarding in modern IPv6-enabled networks.

## Energy-Efficient Architecture

The switch uses 80 PLUS Gold or Platinum certified power supplies and supports Energy-Efficient Ethernet (IEEE 802.3az) to cut power draw. The Aruba ProVision ASIC is optimized for low latency, deep packet buffering, and adaptive power consumption. Selectable queue configurations let operators tune resources to match application traffic patterns.

# Technical Specifications

## Product Specifications

Feature	Value
Ports	(20) RJ-45 autosensing 10/100/1000 ports (4) Dual Personality 10/100/1000 BASE-T or 100/1000 Mbps SFP Ports (1) Uplink module slot, (1) stacking module slot
RJ-45 Port Type	(20) RJ-45 autosensing 10/100/1000 ports
Dual-Personality Ports	(4) Dual Personality 10/100/1000 BASE-T or 100/1000 Mbps SFP Ports
Module Slots	(1) Uplink module slot, (1) stacking module slot
Memory and Processor	Dual Core ARM Coretex A9 @ 1016 MHz 1 GB DDR3 SDRAM Packet buffer size: 12.38 MB and 4.5MB Ingress, 7.785 Egress 4 GB eMMC
CPU	Dual Core ARM Coretex A9 @ 1016 MHz



Feature	Value
System Memory	1 GB DDR3 SDRAM
Packet Buffer Size	Packet buffer size: 12.38 MB and 4.5MB Ingress, 7.785 Egress
Flash Storage	4 GB eMMC
Latency	1000 Mb Latency: < 3.1 $\mu$ s 10 Gbps Latency: < 3.4 $\mu$ s
1000 Mb Latency	1000 Mb Latency: < 3.1 $\mu$ s
10 Gbps Latency	10 Gbps Latency: < 3.4 $\mu$ s
Throughput	up to 95.2 Mpps
Switching capacity	128 Gbps
Management features	Aruba AirWave Network Management Aruba Central IMC - Intelligent Management Center Command-line interface Web browser Configuration menu SNMP manager Telnet RMON1 FTP Out-of-band management (serial RS-232C or micro USB)
Network Management Tools	Aruba AirWave Network Management Aruba Central IMC - Intelligent Management Center
Management Interfaces	Command-line interface Web browser Configuration menu SNMP manager Telnet RMON1 FTP Out-of-band management (serial RS-232C or micro USB)
Power supply name	JL085A Aruba X371 12VDC 250W 100-240VAC Power Supply
Input voltage	100 - 127 / 200 - 240 VAC, rated
Operating humidity range	15 to 95% @ 104°F (40°C) (noncondensing up to 10000 ft)
Power Consumption	49 W (maximum)

## Product Comparison

Feature	JL319A	JL256A	C9200L-48T-4X-E
Product Type	Aruba 2930M access switch	Aruba 2930F access switch	Cisco Catalyst 9200L access switch
Fixed Ports	(20) 10/100/1000 RJ-45 + (4) dual-personality 1G	Typically 24/48x 10/100/1000 RJ-45	48x 10/100/1000 RJ-45 data
Uplink Options	(1) uplink module slot for 10GbE/40GbE	Fixed or optional 10GbE SFP+ (model-dependent)	4x 1G/10G SFP+ fixed uplink ports
Switching Capacity	128 Gbps	Lower/medium depending on model	Higher fabric capacity for 48-port access



Feature	JL319A	JL256A	C9200L-48T-4X-E
Routing Features	Layer 3 with static, RIP, Access OSPF	Layer 3 Lite on many models	Enhanced Layer 3 with advanced routing
PoE Capability	Supported on PoE variants with up to 60W/port (802.3bt)	PoE/PoE+ on PoE models, lower total budget	No PoE (data-only model)
Stacking	Modular stacking slot; VSF stacking up to 10 units	VSF stacking supported on selected models	StackWise-160/StackWise support on C9200L series
Management	Aruba Central, AirWave, Web, CLI, SNMP	Aruba Central, AirWave, Web, CLI, SNMP	Cisco DNA Center, Web UI, CLI, SNMP

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- JL085A Aruba X371 12VDC 250W 100-240VAC Power Supply</li> <li>- Rack-mount kit (brackets and screws)</li> <li>- Console cable (RJ-45 to serial or micro USB)</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- 10GbE SFP+ transceiver modules</li> <li>- 40GbE QSFP+ uplink modules</li> <li>- Additional field-replaceable power supply units</li> </ul>



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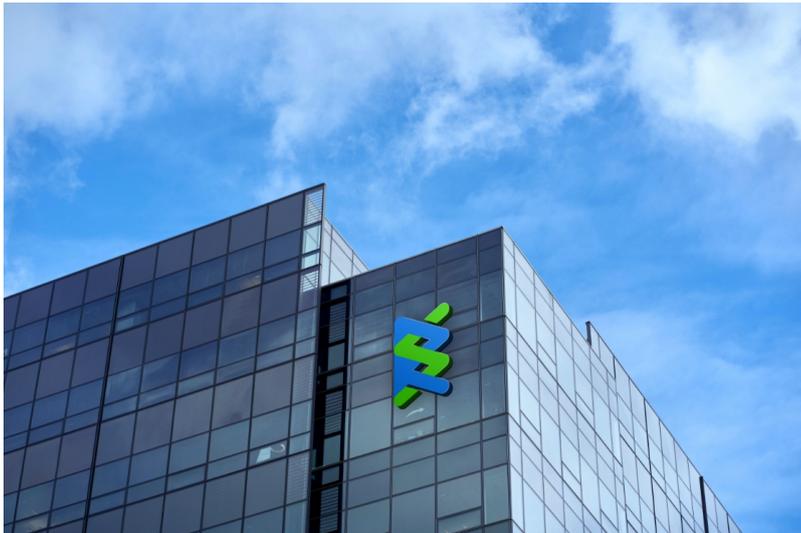


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## References

[1] HPE Aruba Networking. (2023). HPE Aruba Networking 2930M Switch Series JL319A Specification. Retrieved from <https://www.hpe.com/psnow/doc/a00001977enw>