

# Aruba JL323A

## Datasheet



## Product Overview

- Aruba 2930M Series switches like the JL323A deliver enterprise-class Layer 3 access for mobile-first, cloud-managed campus networks.
- Designed for smart digital workplaces, it serves offices, schools, and healthcare sites that need reliable wired and wireless integration.
- It offers wire-speed 1/10GbE access with optional 40GbE uplinks, high PoE power budgets, and modular stacking for up to 10 member switches.
- Key differentiators include HPE Smart Rate multi-gigabit ports, IEEE 802.3bt up to 60W PoE, and the Aruba ProVision ASIC for low-latency performance.
- Zero touch provisioning, ClearPass Policy Manager, and Aruba Central simplify deployment, security, and lifecycle management across distributed branches.
- For growing campus and branch networks, JL323A provides scalable, secure access switching that supports advanced QoS, IPv6, and dynamic segmentation.

## Product Highlights

- **Enterprise L3 Access Switching:** Delivers Layer 3 access with ACLs, robust QoS, and support for static, RIP, and Access OSPF routing to build resilient campus networks.
- **Scalable VSF Stacking:** Supports up to 10-member VSF backplane stacking and as many as 480 downlink ports, with models for 1GbE, 10GbE, and HPE Smart Rate multi-gigabit.
- **Flexible Modular Uplinks:** Offers 4-port 10GbE SFP+ with MACsec, 4-port 1/2.5/5/10GbE Smart Rate, and 1-port 40GbE QSFP+ modules for smooth capacity expansion.
- **PoE and SDN-Ready Design:** Field-replaceable PSUs provide up to 60W PoE per port, while programmable ASIC, REST APIs, and OpenFlow enable SDN and automation.

## Detailed Features



JL323A

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Component	Specification
Model	Aruba JL323A, 2930M Series Layer 3 Switch
Ports	48 × 10/100/1000Base-T, 8 × 10GBase-T, 4 × SFP uplink slots
Stacking	VSF stacking, dedicated stack port, up to 10 units
PoE & Power	Modular power supply, redundant PSU supported (models up to 1440W PoE)
Form Factor	1U rack-mountable chassis, 17.4 × 12.8 × 1.7 in (W×D×H)



## Open Programmable Networking

JL323A supports multiple programmatic interfaces including REST APIs and OpenFlow 1.0/1.3, enabling automation of configuration, monitoring, and troubleshooting. Operators can integrate the switch with SDN controllers and orchestration tools, deploy intent-based policies, and adjust traffic behavior dynamically without manual CLI-only workflows.

## Unified Wired-Wireless Policies

With Aruba NAC, the switch applies unified wired and wireless policies from one policy engine. When an Aruba access point is detected, the switch auto-configures VLAN, CoS, PoE power, and PoE priority, reducing manual setup. This approach ensures consistent security, QoS, and access rules regardless of whether clients connect via LAN or WLAN.

## Role-Based Access Control

User roles let admins define sets of switch-based policies for security, authentication, and QoS. Roles can be assigned by device type or user group, either locally or downloaded from Aruba NAC. This simplifies onboarding for BYOD and IoT, ensuring each endpoint gets the right VLAN, ACL, and bandwidth profile automatically.

## Dynamic Segmentation Security

Aruba dynamic segmentation enforces user, device, and application-aware policies across wired and wireless networks. It uses automated device profiling, role-based access control, and Layer 7 firewall capabilities to classify and protect traffic. This reduces VLAN sprawl and improves visibility, while keeping user experience predictable and secure.

## Tunnel Node and Policy Enforcement

Dynamic segmentation can create secure tunnels on a per-port or per-user role basis to an Aruba Controller. In per-user Tunnel Node mode, users are authenticated by Aruba NAC, which instructs the switch to locally forward or tunnel traffic. This allows centralized policy enforcement without sacrificing local performance or complicating the access design.

## Advanced QoS Architecture

JL323A offers granular QoS with IPv6 support, IEEE 802.1p traffic prioritization into eight queues, and Layer 4 prioritization based on TCP/UDP ports. Class of Service can tag traffic by IP, ToS, protocol, or DiffServ, while rate limiting sets per-port max and per-queue minimums. Large buffers and Unknown Unicast Rate Limiting improve congestion handling and reduce unnecessary flooding.

## High-Performance Connectivity

HPE Smart Rate (IEEE 802.3bz) multi-gigabit ports support 1/2.5/5/10GbE for high-speed APs. Flexible 10GbE SFP+ modules and optional 40GbE QSFP+ uplinks deliver scalable bandwidth. IEEE 802.3bt Class 6 PoE supplies up to 60W per port, while 802.3at PoE+ provides up to 30W for phones, APs, and cameras, with Auto-MDIX simplifying cabling.

## Energy Efficiency and ASIC Design

Energy-efficient Ethernet (EEE) per IEEE 802.7az and 80 PLUS Gold/Platinum power supplies reduce power use. The Aruba ProVision ASIC delivers very low latency, larger packet buffers, and adaptive power consumption. Selectable queue configurations let administrators tune memory and queue counts to match application needs, optimizing both performance and energy usage.

# Technical Specifications

## Product Specifications

Feature	Value
Model	Model
Brand	Brand
Manufacturer Part Number	Manufacturer Part Number
Product Type	Product Type
Manageable	Manageable
Ethernet Technology	Ethernet Technology
Number of Total Expansion Slots	Number of Total Expansion Slots
Product Family	Product Family
Stack Port	Stack Port



Feature	Value
Media Type Supported	Media Type Supported
Total Number of Network Ports	Total Number of Network Ports
Redundant Power Supply Supported	Redundant Power Supply Supported
Expansion Slot Type	Expansion Slot Type
Form Factor	Form Factor
Power Source	Power Source
Layer Supported	Layer Supported
Number of SFP Slots	Number of SFP Slots
Modular	Modular
Uplink Port	Uplink Port
Shared SFP Slot	Shared SFP Slot
Port / Expansion Slot Details	Port / Expansion Slot Details
Height	Height
Width	Width
Depth	Depth
Product Series	Product Series
Network Technology	Network Technology
Get more information	Get more information

## Product Comparison

Feature	JL323A	JL256A	JL707A
Product Series	2930M access switch	2930F access switch	CX 6100 access switch
Layer	Layer 3 managed	Layer 3 managed	Layer 2/Layer 3 lite
Fixed Ports	48 × 1G + 8 × 10G + 4 × SFP slots	24/48 × 1G with optional SFP uplinks	24/48 × 1G with SFP uplinks
Uplink Options	4 × SFP, 10GbE/40GbE modular uplinks	Fixed 1G/10G SFP+ uplinks	Fixed 1G SFP uplinks
Stacking Capability	VSF backplane stacking, up to 10 switches	VSF stacking, fewer members and bandwidth	No physical stacking, uses VSX/virtual management in higher series only



Feature	JL323A	JL256A	JL707A
PoE Support	Models up to 1440W PoE, IEEE 802.3bt up to 60W/port	PoE+ models up to 740W, IEEE 802.3at 30W/port	PoE+ models targeted for small sites, lower total PoE budget
Target Deployment	Mid-size/large campus access and high-density AP/IoT	Cost-efficient SMB and branch access	Entry-level access for small offices and retail
Advanced Features	Dynamic segmentation, SDN/OpenFlow, rich QoS and IPv6	Strong L2/L3 with simpler feature set	Basic enterprise features, optimized for ease of use

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- Rack-mount kit (brackets and screws)</li> <li>- AC power cord</li> <li>- Quick installation guide</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- Hot-swappable power supply modules</li> <li>- 10GbE SFP+ and 40GbE QSFP+ transceivers</li> <li>- Aruba Smart Rate uplink/expansion modules</li> </ul>



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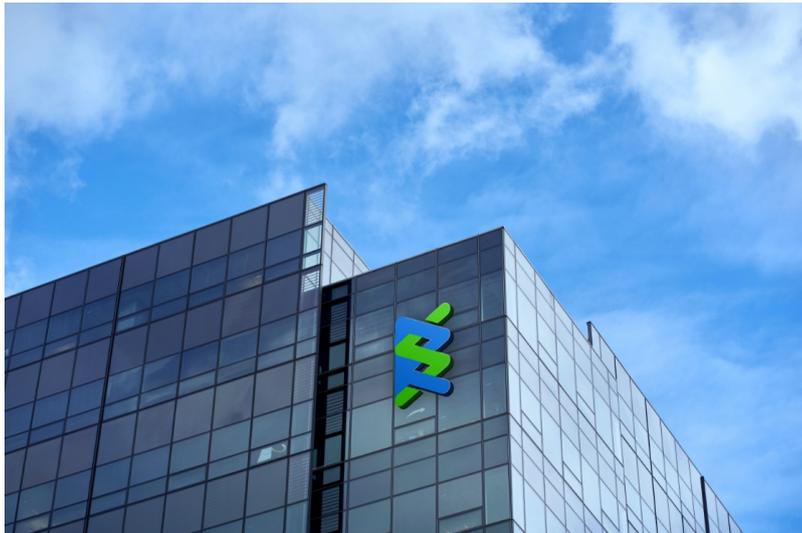


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## References

[1] Aruba. (2023). HPE Aruba Networking 2930M Switch Series Overview (Including JL323A). Retrieved from <https://www.hpe.com/psnow/doc/a00001981enw>