

Aruba JL256A

Datasheet



Product Overview

- HPE Aruba Networking 2930F Switch Series is a Layer 3 access family built for modern digital workplaces and mobile-first networks.
- Ideal for enterprise edge, SMB access, and branch offices, it delivers reliable wired connectivity for users, devices, and IoT endpoints.
- The JL256A provides 48 PoE+ Gigabit ports, 4 SFP+ 10GbE uplinks, strong QoS, and high switching capacity for demanding campus access.
- VSF stacking, RIP and Access OSPF routing, and advanced security tools create a scalable, policy-based access layer.
- Integration with Aruba Central, AirWave, and ClearPass simplifies deployment, monitoring, and access control across wired and wireless.
- For regional offices and mid-sized campuses, the 2930F JL256A offers a cost-effective way to add high-performance, secure, and easily managed edge switching.

Product Highlights

- **Layer 3 Stackable Access Design:** 2930F is a family of Layer 3 stackable switches that combine Gigabit access with advanced routing, ideal for enterprise, SMB, and branch networks requiring scalable wired connectivity.
- **Simple Deployment at Scale:** Supports Zero Touch Provisioning (ZTP) and Aruba Central cloud management, allowing fast rollout, remote configuration, and consistent policies across multiple sites.
- **High-Density Stacking:** Up to 8-member stacking with Virtual Switching Framework (VSF) delivers simplified management, increased resiliency, and flexible expansion without complex chassis systems.
- **Flexible Uplinks and PoE Power:** Built-in 1GbE or 10GbE SFP+ uplinks plus models with up to 740W PoE+ provide data and power to APs, phones, and cameras through a single, compact access switch.

Detailed Features



JL256A

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Component	Specification
Downlink Ports	48 × 10/100/1000Base-T PoE+ RJ-45
Uplink Ports	4 × 1/10GbE SFP+ fiber slots
PoE Standard	IEEE 802.3af/at (PoE+)
PoE Power Budget	370W available for powered devices
Switch Type	Layer 3 Gigabit access switch



Advanced Layer 3 Services

JL256A offers a rich Layer 3 feature set including Access OSPF, static routing, and RIP, enabling efficient traffic engineering in campus and branch environments. Support for ACLs, sFlow, and full IPv6 capability comes without additional software licenses, reducing operational cost while maintaining routing flexibility and visibility.

VSF-Based Stacking Architecture

HPE Aruba Networking Virtual Switching Framework (VSF) allows up to eight physical 2930F switches to operate as a single logical system. This design simplifies topology, centralizes control, and improves resiliency. Stacked switches share links and resources, enabling non-disruptive expansion and easier management for growing access networks.

Optimized AP Integration

When connected to Aruba access points, the switch can automatically apply optimal settings such as PoE priority, VLAN tagging, and rogue AP containment policies. This tight integration minimizes manual configuration, shortens deployment time, and helps ensure wireless services receive the right bandwidth and power.

Automation-Ready Interfaces

JL256A supports multiple programmatic interfaces including REST APIs and OpenFlow 1.0/1.3, allowing integration with SDN controllers and automation tools. Operators can script configuration changes, automate monitoring, and streamline troubleshooting workflows, improving consistency and reducing human error in daily operations.

High-Performance ProVision ASIC

The switch is built on a ProVision ASIC optimized for mobile campus use, providing low latency, deep packet buffering, and SDN enhancements. Adaptive power consumption aligns energy use with traffic demand, while configurable queue and buffer profiles allow tuning for real-time, bulk data, or mixed application scenarios.

Robust PoE+ Power Delivery

JL256A supports up to 370W PoE+ in this model and up to 740W in the wider 2930F family, powering access points, IP phones, and surveillance cameras directly from the switch. Centralized PoE management simplifies power planning, reduces cabling complexity, and supports future endpoint growth at the edge.

Comprehensive Security and QoS

Security features include 802.1X, MAC and Web Authentication, source-port filtering, RADIUS/TACACS+, SSL, port security, and MAC lockout, helping protect against internal and external threats. Combined with granular QoS, the switch enforces policy-based access, prioritizes critical traffic, and supports compliance-driven segmentation.

Unified and Flexible Management

Support for Aruba ClearPass, AirWave, and Aruba Central provides consistent policy control and monitoring across wired and wireless infrastructure. RMON and sFlow deliver detailed statistics, alarms, and event histories, while out-of-band Ethernet management keeps control-plane traffic separate, improving reliability during data-plane issues.

Technical Specifications

Product Specifications

Feature	Value
Product Number	HPE Aruba Networking 2930F 48G PoE+ 4SFP+ Switch JL256A
Differentiator	Popular 52-port Gig + 10G access switch with 370 Watts PoE+ power.
Model Description	This model has 48x 10/100/1000 PoE+ ports and 4x 10G / 1G SFP+ transceiver slots for uplink connectivity.
PoE+ Power Budget	PoE+ is supported with a power budget of 370 Watts.
Power consumption	459W (maximum)
Heat dissipation	293.0 BTU/hr (309.1 kJ/hr)
Input voltage	100–127/200–240 VAC, rated
RJ-45 Ports	(48) RJ-45 autosensing 10/100/1000 PoE+ ports



Feature	Value
SFP+ Ports	(4) SFP+ 1/10GbE ports PHY-less
Latency at 1000 Mb	1000 Mb Latency: < 3.8 μs
Latency at 10 Gbps	10 Gbps Latency: < 1.6 μs
Switching capacity	176 Gbps
Throughput	Up to 112 Mpps
Processor	Dual Core ARM Cortex A9 @ 1016 MHz
System Memory	1 GB DDR3 SDRAM
Packet buffer size	Packet buffer size: 12.38 MB
Ingress Buffer	4.5 MB Ingress
Egress Buffer	7.875 MB Egress
Flash Storage	4 GB eMMC
PoE capability	370W PoE+
Management features	HPE Aruba Networking Management Software (AirWave) Central Network Management 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)
Weight	4.46 kg
Product dimensions	4.39 x 44.25 x 30.42 cm

Product Comparison

Feature	JL256A	C1000-24P-4X-L	C9200L-48P-4X-A
Fixed Ports	48 × 10/100/1000 PoE+ + 4 × 1/10G SFP+	24 × 10/100/1000 PoE+ + 4 × 1G/10G SFP+	48 × 10/100/1000 PoE+ + 4 × 1G/10G SFP+
Switching Capacity	176 Gbps	56 Gbps (typical access-class)	176 Gbps (typical for 48-port model)
Packet Forwarding Rate	Up to 112 Mpps	41.66 Mpps (access-class)	130 Mpps (approx.)
PoE Power Budget	370W PoE+	195W PoE+	740W PoE+
Layer 3 Features	Static, RIP, Access OSPF, IPv6	Layer 2 with limited static routing	Enhanced Layer 3 with advanced routing and policy
Stacking / Virtualization	VSF stacking up to 8 members	No true stacking, standalone only	StackWise-80/160, stacking up to multiple members



Feature	JL256A	C1000-24P-4X-L	C9200L-48P-4X-A
Management Options	AirWave, Central, IMC, CLI, Web, SNMP	Web GUI, CLI, SNMP, basic cloud	Cisco DNA Center, CLI, Web UI, SNMP, NETCONF
Target Deployment	Value-focused campus/branch access	Small business or simple managed access	Enterprise campus access with richer services

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - AC Power Cord - Rack Mounting Kit (brackets and screws) - Quick Installation Guide
Optional Accessories	<ul style="list-style-type: none"> - SFP/SFP+ Transceiver Modules - External RPS or UPS System - Cable Management Kit



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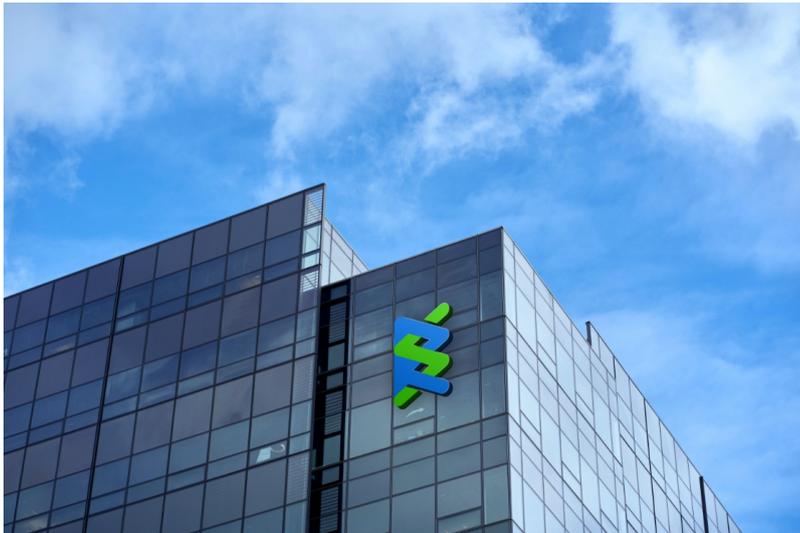


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References

[1] HPE Aruba Networking. (2023). HPE Aruba Networking 2930F 48G PoE+ 4SFP+ Switch JL256A Datasheet. Retrieved from <https://www.hpe.com/psnow/doc/PSN1008995333WWEN.pdf>