Aruba JL259A

Datasheet

Product Overview

- The HPE Aruba Networking 2930F Switch Series is a Layer 3 access family built for modern digital workplaces focused on mobile-first networking.

- Ideal for enterprise edge, SMB networks, and branch offices, it delivers reliable wired access for laptops, IP phones, access points, and IoT devices.

- It offers 10/100/1000 access ports, high-performance 10 GbE uplinks, robust QoS, and Layer 3 routing features without extra software licenses.

- Differentiated by HPE Aruba Networking VSF stacking, it scales up to eight switches, simplifying expansion and centralized control.

- Central, AirWave, and ClearPass support add value with unified wired and wireless policy, clear visibility, and faster troubleshooting.

- For distributed sites and campus networks, the 2930F provides a cost-effective way to deliver secure, high-performance access that is simple to deploy and grow.

Product Highlights

- **Layer 3 Stackable Access Design:** The HPE Aruba Networking 2930F Series delivers Layer 3 stackable access switching that is easy to deploy and manage, giving scalable performance for enterprise, SMB, and branch access networks.

- **Zero Touch Cloud Provisioning:** Zero Touch Provisioning (ZTP) and integration with cloud-based HPE Aruba Networking Central help automate initial setup and ongoing configuration, reducing on-site labor and rollout time.

- **Scalable VSF Stacking:** Support for up to eight-member Virtual Switching Framework (VSF) stacking lets you expand port capacity while managing multiple switches as a single logical device.

- **Flexible Uplinks and PoE+ Power:** Built-in 1 GbE or 10 GbE uplinks and up to 740 W PoE+ provide flexible connectivity and power for access points, IP phones, and cameras without external PoE injectors.

Detailed Features

JL259A

Component	Specification
Downlink Ports	24 × 10/100/1000 Base-T RJ-45
Uplink Slots	4 × 1000/100 SFP
Form Factor	Fixed Gigabit Layer 3 access switch
Switching Capacity	56 Gbps
Forwarding Performance	Up to 41.7 Mpps

Comprehensive Layer 3 Feature Set

The 2930F Series integrates a rich Layer 3 toolbox including Access OSPF, static and RIP routing, ACLs, sFlow, and full IPv6 support. These capabilities allow the switch to act as an intelligent access or small aggregation device, enabling inter-VLAN routing, traffic segmentation, and granular policy control without needing additional licenses or external routers, which reduces cost and simplifies design.

High-Efficiency VSF Stacking Architecture

HPE Aruba Networking Virtual Switching Framework (VSF) lets you combine up to eight physical 2930F switches into a single logical system. This stacking model centralizes control, improves resiliency, and simplifies expansion. Links can span members for redundancy, while a single management IP and configuration cover the stack. As needs grow, additional units can be added with minimal disruption and consistent policy.

Optimized Integration with Aruba Access Points

When connected to HPE Aruba Networking access points, the 2930F can automatically apply optimal settings, including PoE power priority, VLAN assignment, and rogue AP containment. This tight integration removes manual configuration steps, ensures correct segmentation for SSIDs and user groups, and enhances wireless security at the edge, which is especially valuable for multi-site rollouts and lean IT teams.

Programmable Interfaces for Automation

Support for multiple programmatic interfaces, including REST APIs and OpenFlow 1.0/1.3, makes the 2930F suitable for SDN and automation projects. Operators can push configurations, collect telemetry, and trigger troubleshooting workflows from external controllers or orchestration platforms. This programmability reduces repetitive CLI tasks, speeds change windows, and allows integration with modern IT service tools.

ProVision ASIC for Edge Performance

The 2930F is built on a powerful ProVision ASIC tuned for campus edge workloads. It offers SDN optimizations, low latency forwarding, deep packet buffering, and adaptive power consumption. Selectable queue configurations and flexible memory allocation let you match hardware behavior to application patterns such as voice, video, or bursty data, ensuring consistent performance for converged networks.

Flexible Queueing and Buffering Options

Selectable queue profiles with associated memory buffering help fine-tune how the switch handles congestion and priority traffic. Administrators can prioritize delay-sensitive flows while maintaining fairness for best-effort traffic. This design allows a single platform to support diverse services, from IP telephony and surveillance to data backups, without needing dedicated hardware per application type.

Robust Power over Ethernet at the Edge

With support for up to 740W of internal PoE+ power, the 2930F can power a large number of 802.3af/at devices such as wireless access points, IP cameras, and phones. Centralized PoE budgeting and per-port control ensure power is allocated where it is needed most, while reducing the need for external injectors or midspans. This simplifies cabling, accelerates installation, and keeps wiring closets clean.

Strong Security and Policy-Based Access

The series offers flexible authentication mechanisms including 802.1X, MAC authentication, and Web Authentication, enabling fine-grained control of who connects and what they can access. Multilevel security features such as source-port filtering, RADIUS/TACACS+, SSL, port security, and MAC lockout help enforce corporate policies and block rogue or misconfigured devices, safeguarding both user data and critical services.

Technical Specifications

Product Specifications

Feature	Value
Product Number	HPE Aruba Networking 2930F 24G 4SFP Switch JL259A
Differentiator	Popular 28-port Gig access switch.
Model Description	This model has 24x 10/100/1000 ports and 4x 1000/100 SFP transceiver slots for uplink connectivity.
Power consumption	29.3W (maximum)
Heat dissipation	100 BTU/hr (105.5 kJ/hr)
Input voltage	100–127/200–240 VAC, rated

Feature	Value
Downlink Ports	(24) RJ-45 autosensing 10/100/1000 ports
Uplink Ports	(4) SFP
Latency (1 Gbps)	1000 Mb Latency: < 3.8 µs
Switching capacity	56 Gbps
Throughput	Up to 41.7 Mpps
CPU	Dual Core ARM Cortex A9 @ 1016 MHz
System Memory	1 GB DDR3 SDRAM
Packet buffer size	12.38 MB 4.5 MB Ingress/7.875 MB Egress
Flash Storage	4 GB eMMC
Management software	HPE Aruba Networking Management Software (AirWave) Central Network Management 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)
Weight	2.41 kg
Product dimensions	4.39 x 44.25 x 20.02 cm.

Product Comparison

Feature	JL259A	JL666A	JL668A
Product Type	Layer 3 Gigabit access switch	Layer 3 access/aggregation switch	Layer 3 access PoE switch
Fixed Ports	24 × 10/100/1000Base-T + 4 × 1G SFP	Typically 48 × 1G + 10G uplinks (series dependent)	Typically 24 × 1G + 10G uplinks (PoE models)
PoE Capability	No PoE on this model	Available PoE/PoE+ variants with higher budget	High PoE+ budget for APs, cameras, IP phones
Switching Capacity	56 Gbps	Higher switching capacity for larger edge/campus	Higher switching capacity than JL259A for dense access
Stacking / VSF	Up to 8-member VSF stacking	VSF/stacking supported with higher scale	VSF/stacking supported for flexible expansion
Routing Features	Static, RIP, Access OSPF, IPv6	Richer Layer 3 feature set and scaling options	Advanced access routing and policy features
Management Options	CLI, Web, SNMP, AirWave, Central	Enhanced Aruba Central and analytics support	Enhanced cloud/on-prem management integration

Feature	JL259A	JL666A	JL668A
Ideal Deployment	SMB and branch access, small campus edge	Medium/large campus edge or aggregation	PoE-rich enterprise access with many endpoints

Accessories

Category	Accessories
Included Accessories	- AC Power Cord - Rack Mounting Kit - Quick Installation Guide
Optional Accessories	- 1G SFP Transceiver Modules - Console Cable (RJ-45 to DB-9 or USB) - External Cable Management Brackets

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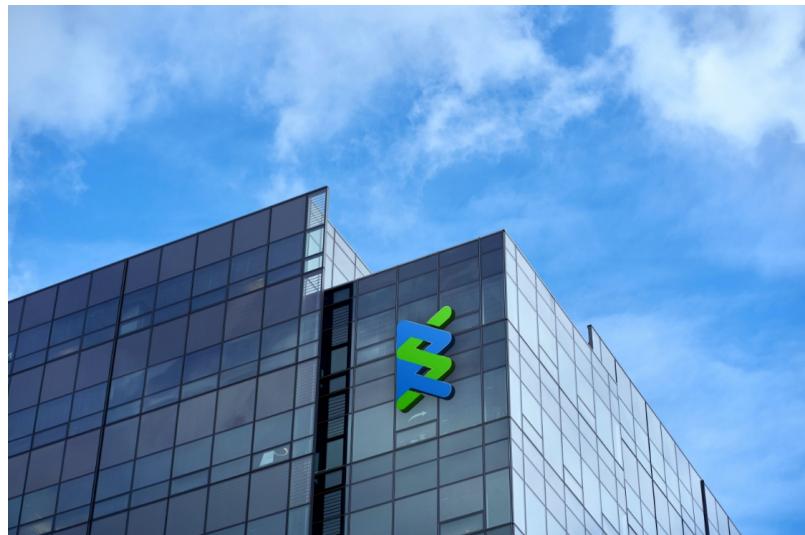**100% Low Price Guarantee**

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References

[1] HPE Aruba Networking. (n.d.). HPE Aruba Networking 2930F 24G 4SFP Switch JL259A Datasheet. Retrieved from https://www.hpe.com/psnow/doc/PSN1008995548USEN.pdf