

Aruba JL255A

Datasheet

Product Overview

- Aruba 2930F Switch Series is a Layer 3 access family built for modern digital workplaces and mobile-first campus edge.
- Ideal for enterprise edge, SMB networks, and branch offices that need reliable wired access for users, devices, and IoT.
- Delivers wire-speed performance with 1 GbE access ports, 10 GbE uplinks, robust QoS, and scalable Layer 3 routing features.
- Supports VSF stacking, advanced security, and integrated tools to simplify segmentation, visibility, and access control.
- Works seamlessly with Aruba Central, AirWave, and ClearPass to cut deployment time and streamline daily operations.
- A cost-effective switch choice for growing networks that need simple management, strong security, and zero license complexity.

Product Highlights

- **Layer 3 Stackable Access Platform:** 2930F is a stackable Layer 3 access switch family, easy to deploy and manage, scaling from SMB edge to large enterprise access.
- **Cloud-Ready Provisioning:** Supports Zero Touch Provisioning (ZTP) and Aruba Central cloud management to accelerate rollouts and reduce on-site configuration work.
- **Scalable Stacking Design:** Up to 8-member stacking with Aruba VSF, simplifying expansion, redundancy, and centralized control for distributed access layers.
- **High-Power Uplinks and PoE+:** Built-in 1/10 GbE uplinks and models with up to 740W PoE+ power budget to drive APs, IP cameras, and VoIP phones on a single platform.

Detailed Features



JL255A

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Component	Specification
Access Ports	24 × 10/100/1000BASE-T PoE+ RJ-45
Uplink Slots	4 × 1/10G SFP+ fiber transceiver slots
PoE Standard	IEEE 802.3af/at PoE+
PoE Power Budget	370 W total PoE+ power (model JL255A)
Switch Type	Layer 3 Gigabit access switch with 10G uplinks



Advanced Layer 3 Feature Set

JL255A provides a comprehensive Layer 3 feature set including Access OSPF, static routing, RIP, ACLs, sFlow, and full IPv6 support. These functions enable efficient traffic engineering, multi-network segmentation, and detailed flow visibility without requiring additional software licenses, reducing long-term ownership cost.

Scalable VSF Stacking Architecture

With Aruba Virtual Switching Framework (VSF), up to eight 2930F switches operate as a single logical device. This simplifies configuration and management, allows link aggregation across members, and improves resiliency with fast failover. The design supports gradual capacity growth while keeping the topology flat and easy to operate.

Optimized for Aruba Access Points

When connected to Aruba access points, JL255A can automatically apply suitable PoE priority, VLAN assignments, and wireless containment policies. This tight integration shortens WLAN rollout time, reduces configuration errors, and improves RF security through rogue AP detection and isolation at the wired edge.

Open Programmability and Automation

The switch offers multiple programmatic interfaces including REST APIs and OpenFlow 1.0/1.3. These interfaces enable integration with SDN controllers and automation tools for provisioning, monitoring, and troubleshooting. Operators can build scripts and workflows to standardize changes and reduce manual CLI operations.

High Performance ProVision ASIC

JL255A is built on Arubas ProVision ASIC, designed for SDN optimization, low latency, and deep packet buffering. This architecture supports demanding mobile and cloud applications while adapting power consumption to traffic load. Flexible queue and buffer configurations allow tuning for voice, video, or data-heavy environments.

Powerful Edge PoE+ Delivery

The model supports up to 370W PoE+ (and series up to 740W), sufficient for dense deployments of 802.11ac/ax access points, IP cameras, and phones. Intelligent power management prioritizes critical devices and optimizes allocation, helping avoid external injectors and reducing cabling complexity at the edge.

Strong Security and QoS Controls

JL255A includes multi-layer security such as 802.1X, MAC and Web authentication, RADIUS/TACACS+, port security, source-port filtering, SSL, and MAC lockout. Combined with granular QoS classification and enforcement, the switch helps enforce corporate policies, protect against internal misuse, and ensure priority for real-time applications.

Unified Wired-Wireless Management

The switch integrates with Aruba ClearPass Policy Manager and AirWave for consistent policies, guest access, onboarding, and health monitoring across wired and wireless. Aruba Central adds cloud-based management with Zero Touch Provisioning. RMON, sFlow, and an out-of-band Ethernet port provide detailed analytics and secure management-plane separation.

Technical Specifications

Product Specifications

Feature	Value
Product Number	HPE Aruba Networking 2930F 24G PoE+ 4SFP+ Switch JL255A
Differentiator	Popular 28-port Gig + 10G access switch with 370 Watts PoE+ power.
Model Description	This model has 24x 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	445W (maximum)
Heat dissipation	258 BTU/hr (272.2 kJ/hr)
Input voltage	100–127/200–240 VAC, rated
Access Ports	(24) RJ-45 autosensing 10/100/1000 PoE+ ports



Feature	Value
Uplink Ports	(4) SFP+ 1/10GbE ports PHY-less
1000 Mb Latency	1000 Mb Latency: < 3.8 μ s
10 Gbps Latency	10 Gbps Latency: < 1.6 μ s
Switching capacity	128 Gbps
Throughput	Up to 95.2 Mpps
CPU	Dual Core ARM Cortex A9 @ 1016 MHz
System Memory	1 GB DDR3 SDRAM
Packet buffer size	Packet buffer size: 12.38 MB 4.5 MB Ingress/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	3.9 kg
Product dimensions	4.39 x 44.25 x 30.42 cm

Product Comparison

Feature	JL255A	R8Q71A	JL709A
Product Series	Aruba 2930F 24G PoE+ 4SFP+	Aruba CX switch series model R8Q71A	Aruba CX access switch JL709A
Fixed Ports	24 \times 10/100/1000 PoE+ + 4 \times 1/10G SFP+	Gigabit access ports with 10G uplinks (model specific)	Multi-gigabit/Gigabit access with SFP+ uplinks (model specific)
PoE Power Budget	370W PoE+	Higher PoE budget options for dense AP/IoT (series dependent)	High PoE+ budget for advanced AP deployments (model dependent)
Switching Capacity	128 Gbps	Higher switching capacity in CX series for larger fabrics	Enhanced capacity suitable for next-gen campus
Layer 3 Features	Static, RIP, Access OSPF, IPv6, no license	Advanced Layer 3 and EVPN/VXLAN in CX OS	Rich Layer 3 features in Aruba CX OS
Stacking/ Virtualization	Up to 8-member VSF stacking	Virtualization/stacking via Aruba VSF/VXLAN (model dependent)	VSF/VXLAN support for resilient campus cores



Feature	JL255A	R8Q71A	JL709A
Management	AirWave, Aruba Central, IMC, CLI, Web, SNMP	Aruba Central and NetEdit-centric automation	Cloud and on-prem management with Aruba Central/AirWave
Ideal Use Case	SMB and branch access with PoE edge	Larger campus or aggregation needing CX features	High-performance access or small core in Aruba CX networks

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none">- AC Power Cord- Rack Mount Kit (brackets and screws)- Quick Installation Guide
Optional Accessories	<ul style="list-style-type: none">- SFP/SFP+ Transceiver Modules- External Console Cable (RS-232 or USB)- Replacement Fan or Power Cord Variants



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References

[1] Hewlett Packard Enterprise. (n.d.). HPE Aruba Networking 2930F 24G PoE+ 4SFP+ Switch JL255A Technical specifications. Retrieved from <https://www.hpe.com/psnow/doc/PSN1008995332WWEN.pdf>