Aruba JL262A

Datasheet

Product Overview

- The HPE Aruba Networking 2930F Series is a line of Layer 3 access switches built to power modern digital workplaces and mobile-first networks.

- Ideal for enterprise edge, SMB wiring closets, and branch offices, it delivers reliable wired access for VoIP, Wi-Fi, and business-critical applications.

- The JL262A model offers 48x 10/100/1000 PoE+ ports plus 4x SFP uplinks, hardware-based Layer 3 routing, and high forwarding performance for dense edge deployments.

- It stands out with Virtual Switching Framework (VSF) stacking, advanced QoS, and policy-based security, all without extra software licenses.

- Integrated with Aruba Central, AirWave, and ClearPass, the 2930F simplifies lifecycle management, network visibility, and access control for IT teams.

- For organizations upgrading to a secure, mobile-ready edge, the JL262A delivers the right balance of power, scalability, and simplicity in a single fixed switch.

Product Highlights

- **Layer 3 Stackable Access Switch:** 2930F is a Layer 3 stackable family that scales from SMB to enterprise edge, giving consistent wired access for offices, schools, and branches.

- **Zero Touch and Cloud Management:** Supports Zero Touch Provisioning and Aruba Central cloud management, so distributed sites can be brought online quickly with minimal onsite work.

- **Scalable VSF Stacking:** Up to 8-member Virtual Switching Framework (VSF) stacking lets you treat multiple switches as one, simplifying operations and improving resilience.

- **Flexible Uplinks and High PoE Budget:** Built-in 1 GbE or 10 GbE uplinks and models with up to 740W PoE+ power support dense AP, IP phone, and camera deployments over a single switch.

Detailed Features

JL262A

Component	Specification
Downlink Ports	48 x 10/100/1000 PoE+
Uplink Slots	4 x 1000/100 SFP
PoE Standard	PoE+
Form Factor	1U rack-mount switch
Typical Role	Gigabit access with PoE and SFP uplinks

Advanced Layer 3 Feature Set

JL262A integrates a robust Layer 3 feature set designed for campus and branch access. It supports Access OSPF, static routing, and RIP routing to build efficient Layer 3 topologies without external routers. ACLs and sFlow enable granular traffic filtering and flow visibility, while full IPv6 support prepares the network for next-generation addressing and services, all with no additional software licenses required.

VSF Stacking and Uplink Flexibility

With HPE Aruba Networking Virtual Switching Framework (VSF), up to eight physical 2930F switches operate as a single logical device. This simplifies management, enables distributed link aggregation, and improves resiliency. Built-in 1 GbE or 10 GbE uplinks provide flexible connectivity to aggregation or core switches, while PoE+ models align power and bandwidth to access demands, delivering right-sized performance at the edge.

Optimized for Aruba Access Points

When connected to Aruba access points, the switch can automatically apply optimized settings. It adjusts PoE priority to keep critical APs powered, auto-configures VLANs to separate user and management traffic, and supports rogue AP containment to reduce wireless security risks. This tight integration reduces manual configuration and helps maintain consistent wireless policies across locations.

Open Programmability and SDN Ready

The JL262A supports multiple programmatic interfaces, including REST APIs and OpenFlow 1.0/1.3, enabling integration with SDN controllers and automation platforms. Network teams can automate provisioning, monitoring, and troubleshooting workflows, reducing repetitive CLI tasks. This open design lets you integrate the switch into modern DevOps-style operations and third-party orchestration tools.

High-Performance ProVision ASIC

At the core of the 2930F is a ProVision ASIC tuned for mobile campus and edge workloads. It offers SDN optimizations, low latency forwarding, and increased packet buffering to handle bursty traffic from Wi-Fi and cloud applications. Adaptive power consumption aligns energy use with load, helping lower operating costs while maintaining consistent performance.

Powerful Queueing and Buffering Options

Selectable queue configurations let administrators align QoS behavior with specific application requirements. Combined with a 12.38 MB packet buffer, the switch can smooth out microbursts and protect time-sensitive traffic. Separate ingress and egress buffering profiles help maintain predictable performance for voice, video, and business-critical data even under heavy load.

High PoE+ Power for Edge Devices

The 2930F platform supports up to 740W of internal PoE+ power, making it suitable for dense Wi-Fi 5/6 access point deployments, IP surveillance cameras, and unified communications endpoints. PoE management features allow prioritization and power budgeting, ensuring critical devices remain powered during power events and simplifying cabling by using a single Ethernet run.

Comprehensive Security and Centralized Control

Security capabilities include 802.1X, MAC and Web authentication for flexible access control, plus source-port filtering, RADIUS/TACACS+, SSL, port security, and MAC lockout to defend against internal and external threats. Integration with Aruba ClearPass provides consistent wired and wireless policy, while AirWave and Aruba Central offer on-prem and cloud management options. RMON and sFlow deliver detailed monitoring, and an out-of-band Ethernet management port keeps control traffic isolated from user data.

Technical Specifications

Product Specifications

Feature	Value
Product Number	HPE Aruba Networking 2930F 48G PoE+ 4SFP Switch JL262A
Differentiator	Popular 52-port Gig access switch with 370 Watts PoE+ power.
Model Description	This model has 48x 10/100/1000 PoE+ ports and 4x 1000/100 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 BTU/hr (309.1 kJ/hr)

Feature	Value
Input voltage	100–127/200–240 VAC, rated
RJ-45 Ports	(48) RJ-45 autosensing 10/100/1000 PoE+ ports
SFP Ports	(4) SFP
Latency Description	1000 Mb Latency: < 3.8 µs
Switching capacity	104 Gbps
Throughput	Up to 77.4 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
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	JL262A	JL700A	JL668A
Switch Type	Layer 3 Gigabit access switch with PoE+	Next-generation Aruba switch (model JL700A), typically higher-performance access/aggregation	Aruba switch (model JL668A), designed for advanced campus or branch use
Fixed Ports	48x 10/100/1000 PoE+ + 4x 1000/100 SFP	48-port fixed configuration (exact mix depends on JL700A model variant)	Multi-Gig or 1G access ports (depending on JL668A variant) with SFP/SFP+ uplinks
PoE Capability	370W PoE+ budget, suitable for dense AP, IP phone, and camera deployments	Higher PoE+ capacity options available on many JL700A variants for Wi-Fi 6/6E and IoT	PoE/PoE+ support on selected JL668A models for campus access devices
Switching Capacity	104 Gbps switching capacity	Higher switching capacity, optimized for newer Aruba campus architectures	Typically higher than 2930F, designed for more demanding aggregation or high-density access

Feature	JL262A	JL700A	JL668A
Layer 3 and Routing	Access OSPF, static and RIP routing, IPv6, ACLs, sFlow, no extra license	Enhanced Layer 3 features and policy capabilities, depending on software edition	Advanced routing and campus features, often with deeper QoS and segmentation
Stacking / Virtualization	Up to 8-member VSF stacking as one logical device	Supports Aruba VSF or other virtualization features for larger stacks	Supports Aruba stacking/ virtualization for scalable campus fabrics
Management Options	Aruba Central, AirWave, IMC, CLI, Web, SNMP, REST, OpenFlow	Tight integration with Aruba Central and modern APIs; ideal for cloud-managed networks	Supports Aruba management ecosystem and policy integration with ClearPass
Ideal Use Case	Cost-effective Gigabit PoE+ edge for SMB, branch, and enterprise access closets	Higher-end access or distribution where more throughput and advanced features are required	Campus or branch environments needing newer hardware and higher port speeds than 2930F

Accessories

Category	Accessories
Included Accessories	- AC power cord - Rack-mount kit (rack ears and screws) - Quick installation guide
Optional Accessories	- SFP transceiver modules (100/1000 Mbps)

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References

[1] Hewlett Packard Enterprise Aruba Networking. (n.d.). HPE Aruba Networking 2930F 48G PoE+ 4SFP Switch JL262A Technical specifications. Retrieved from https://www.hpe.com/psnow/doc/PSN1008995330INEN