

Aruba JL558A

Datasheet



Product Overview

- The 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 wiring closets, and branch offices that need reliable wired access for users, devices, and IoT endpoints.
- It delivers non-blocking performance with 10 GbE uplinks, up to 740W PoE+ power, and robust Layer 3 routing including RIP and Access OSPF.
- VSF stacking, advanced QoS, and integrated security give this switch an edge over basic Layer 2 access platforms.
- Centralized management via ClearPass, AirWave, and Aruba Central simplifies deployment, policy control, and ongoing operations.
- JL558A helps organizations build a scalable, secure, and cost-effective access layer without additional software licenses.

Product Highlights

- **Layer 3 Stackable Access Design:** 2930F switches provide Layer 3 routing with stackable architecture, giving enterprises and SMBs scalable access for campus, branch, and edge networks while keeping configuration simple and consistent.
- **Zero Touch Provisioning and Cloud Management:** Supports ZTP and integration with HPE Aruba Networking Central so distributed sites can be deployed quickly, reducing on-site work and ongoing management overhead.
- **Eight-Member VSF Stacking:** Virtual Switching Framework (VSF) supports up to 8-member stacks, simplifying topology, management, and upgrades while increasing resilience and port density in a single logical switch.
- **High-Power PoE+ and Flexible Uplinks:** Built-in 1 GbE or 10 GbE uplinks plus up to 740W PoE+ allow direct powering of APs, IP phones, and cameras, enabling cleaner cabling and easier expansion.

Detailed Features



JL558A

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Component	Specification
Model	HPE Aruba Networking 2930F 48G PoE+ 4SFP+ 740W Switch (JL558A)
Fixed Ports	48 × 10/100/1000 PoE+ RJ-45, 4 × 1/10GbE SFP+ uplink slots
Switching Capacity	176 Gbps switching, up to 112 Mpps forwarding
PoE Budget	740W PoE+ internal power for access points, phones, cameras



High-Performance Access Switching

The HPE Aruba Networking 2930F Series is built to deliver fast, reliable access for digital workplaces where users are mobile and application traffic is mixed. With a robust Layer 3 feature set, it supports Access OSPF, static and RIP routing, ACLs, sFlow, and full IPv6, giving networks the routing intelligence and visibility required at the edge without needing extra feature licenses.

Unified Wired and Wireless Experience

Tight integration with Aruba ClearPass Policy Manager, Aruba AirWave, and Aruba Central allows IT to apply a common policy framework for wired and wireless users. Guest access, onboarding, security enforcement, and QoS can be managed from a single policy engine, so the 2930F becomes part of a unified access infrastructure rather than a standalone switch.

VSF Stacking for Agile Networks

Aruba Virtual Switching Framework (VSF) enables up to eight physical 2930F switches to operate as one logical device. This simplifies management, reduces spanning tree complexity, and supports scalable growth. Operators can increase port count and resiliency while maintaining a single control and management plane, ideal for campus edge and branch aggregation.

Optimized for Aruba Access Points

When connected to Aruba access points, the 2930F can automatically apply optimal settings such as PoE priority, VLAN assignment, and rogue AP containment policies. This reduces manual configuration, speeds up wireless rollouts, and ensures APs receive adequate power and segmentation, improving overall WLAN reliability and security.

Programmable and SDN-Ready Architecture

The switch supports multiple programmatic interfaces including REST APIs and OpenFlow 1.0/1.3, enabling deep automation for provisioning, monitoring, and troubleshooting. Combined with SDN optimizations provided by the ProVision ASIC, it allows integration with orchestration tools and controllers so networks can react dynamically to application and user demands.

ProVision ASIC for Low Latency and Efficiency

At the hardware level, the 2930F uses a powerful ProVision ASIC designed for campus SDN use cases. It offers low latency forwarding, enhanced packet buffering, and adaptive power consumption. Selectable queue configurations and flexible memory allocation let administrators tune performance for voice, video, and data traffic patterns at the network edge.

Strong Security and QoS Controls

The platform includes a rich set of security features to meet evolving compliance needs and defend against internal and external threats. It supports 802.1X, MAC, and Web-based authentication, along with RADIUS/TACACS+, SSL, port security, and MAC lockout. Combined with granular QoS policies, traffic can be authenticated, classified, and prioritized to protect critical business applications.

Simplified Operations and Deep Visibility

For management, the 2930F integrates with ClearPass, AirWave, and Aruba Central, giving options for on-premises or cloud management. Features such as RMON and sFlow provide detailed statistics, history, alarms, and event reporting, while an out-of-band Ethernet management port separates management traffic from user data. This design improves visibility, stability, and security of day-to-day operations.

Technical Specifications

Product Specifications

Feature	Value
Product Number	HPE Aruba Networking 2930F 48G PoE+ 4SFP+ 740W Switch JL558A
Differentiator	Popular 52-port Gig + 10G access switch with high-power 740 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 740 Watts.
Power consumption	980W (maximum)



Feature	Value
Heat dissipation	420.9 BTU/hr (444.1 kJ/hr)
Input voltage	100–127/200–240 VAC, rated
RJ-45 Ports	(48) RJ-45 autosensing 10/100/1000 PoE+ ports
SFP+ Ports	(4) SFP+ 1/10GbE ports PHY-less
1000 Mb Latency	1000 Mb Latency: < 3.8 μs
10 Gbps Latency	10 Gbps Latency: < 1.6 μs
Switching capacity	176 Gbps
Throughput	Up to 112 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	740W 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	4.79 kg
Product dimensions	4.39 x 44.25 x 32.42 cm

Product Comparison

Feature	JL558A	C8S45A	OS6450-P24
Fixed Ports	48 × 10/100/1000 PoE+ RJ-45 + 4 × 1/10G SFP+	Switch model C8S45A, port mix varies by configuration	24 × 10/100/1000 PoE+ + 2 × 1G/10G SFP+
PoE Power Budget	740W PoE+	High PoE power, typically up to 740W class (model dependent)	Up to 180W–370W PoE depending on PSU and model
Switching Capacity	176 Gbps	Higher or comparable, often 176–320 Gbps range	Up to 128 Gbps depending on model
Forwarding Rate	Up to 112 Mpps	Comparable wire-speed performance for Gigabit access	Up to 95 Mpps class forwarding



Feature	JL558A	C8S45A	OS6450-P24
Layer 3 Features	Static, RIP, Access OSPF, IPv6, ACLs	Layer 2/Layer 3 features, static and dynamic routing options	Primarily Layer 2 with static routing on some models
Stacking / Virtual Chassis	VSF, up to 8-member stacking	Stacking or virtual chassis supported on selected models	Virtual chassis stacking for selected OS6450 variants
Management Options	CLI, Web, SNMP, AirWave, Aruba Central, IMC	CLI, Web, SNMP, vendor network manager	CLI, Web, SNMP, Alcatel-Lucent management suite

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 console cable (USB-to-serial) - Replacement power cord and regional plug options



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References

[1] Hewlett Packard Enterprise. (n.d.). HPE Aruba Networking 2930F 48G PoE+ 4SFP+ 740W Switch JL558A Technical specifications. Retrieved from <https://www.hpe.com/psnow/doc/PSN1010559448WWEN.pdf>