

Aruba JL258A

Datasheet



Product Overview

- The HPE Aruba Networking 2930F Series is a Layer 3 access switch family built for modern digital workplaces and mobile-first networks.
- Ideal for enterprise edge, SMB access, and branch offices that need reliable wired connectivity for users, devices, and IoT endpoints.
- It delivers nonblocking performance with 8x 10/100/1000 PoE+ access ports and 2x 1/10GbE SFP+ uplinks for high-speed aggregation.
- Advanced features such as RIP and Access OSPF routing and robust QoS provide efficient, predictable traffic handling across the LAN.
- IT teams gain value with simple deployment, ClearPass and AirWave integration, and cloud-based Aruba Central for streamlined management.
- For campuses and branches upgrading to mobile-optimized access, the 2930F JL258A offers a cost-effective, license-free Layer 3 edge.

Product Highlights

- **Layer 3 Stackable Access Platform:** 2930F switches provide Layer 3 capabilities in a compact form factor, supporting routing, ACLs, and QoS for growing campus and branch access networks.
- **Scalable VSF Stacking:** Aruba Virtual Switching Framework supports up to 8-member stacks, allowing you to scale edge capacity and manage multiple switches as a single logical device.
- **Zero Touch and Cloud Management:** Support for Zero Touch Provisioning and Aruba Central simplifies initial rollout and ongoing changes, reducing on-site configuration time.
- **Flexible Uplinks and PoE+ Power:** Built-in 1/10GbE uplinks and models with up to 740W PoE+ deliver high bandwidth and power for access points, IP phones, and surveillance cameras.

Detailed Features



JL258A

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Component	Specification
Downlink Ports	8 × 10/100/1000BASE-T PoE+ RJ-45
Uplink Slots	2 × 1/10GbE SFP+ transceiver slots
PoE Standard	IEEE 802.3af/at PoE+
PoE Power Budget	125 W total PoE+ budget
Switch Type	Layer 3 Gigabit access switch



Advanced Layer 3 Services

The 2930F JL258A integrates Access OSPF, static routing, RIP, ACLs, sFlow, and full IPv6 support without extra licenses. This enables enterprises and SMBs to run dynamic routing, segment traffic, and export rich flow statistics on the access layer, helping optimize paths, enforce security policies, and gain detailed visibility into user and application behavior.

Scalable VSF Stacking Architecture

Arubas Virtual Switching Framework (VSF) lets you interconnect up to eight physical 2930F switches and operate them as one virtual chassis. This improves resiliency through distributed links, simplifies configuration with a single management plane, and allows incremental scale-out as port demand increases, without a disruptive redesign of the access layer.

Optimized Integration with Aruba APs

When Aruba access points connect to the 2930F, the switch can automatically apply recommended settings such as PoE priority, VLAN assignments, and rogue AP containment. This tight integration shortens WLAN rollout time, ensures consistent wired/wireless policies, and helps maintain secure radio environments in offices, schools, and hospitality venues.

Open Automation and SDN Readiness

The JL258A supports REST APIs and OpenFlow 1.0/1.3, allowing external controllers and scripts to configure, monitor, and troubleshoot the switch programmatically. This openness fits SDN architectures, enabling automated provisioning, service chaining, and rapid change management, which are essential for operators standardizing on infrastructure-as-code workflows.

High-Performance ProVision ASIC

A custom ProVision ASIC powers low-latency forwarding, deeper packet buffering, and SDN optimization. Combined with adaptive power consumption, the switch maintains stable performance for voice, video, and data traffic even under bursty loads, while keeping energy use under control in office and classroom environments.

Intelligent Queue and Buffer Management

Selectable queue profiles with associated memory allocation let administrators tune how the switch handles contention and delay-sensitive traffic. By aligning buffer and scheduling behavior with application needs such as collaboration tools, IP surveillance, or ERP systems the 2930F helps preserve user experience during busy periods.

Robust PoE+ Power for Edge Devices

2930F models can supply up to 740W of internal PoE+ power, while the JL258A provides a focused 125W budget for smaller sites. This supports dense deployments of access points, IP cameras, and VoIP phones without external injectors, minimizing cabling complexity and power strips in ceilings, retail floors, or branch wiring closets.

Comprehensive Security and Unified Management

The series includes 802.1X, MAC and Web Authentication, RADIUS/TACACS+, port security, SSL, and MAC lockout to enforce identity-based access and mitigate internal threats. Integration with ClearPass Policy Manager and AirWave, plus cloud-based Aruba Central, unifies wired and wireless policy, monitoring, and guest access workflows, while RMON, sFlow, and an out-of-band port keep operations and diagnostics cleanly separated from user traffic.

Technical Specifications

Product Specifications

Feature	Value
Product Number	HPE Aruba Networking 2930F 8G PoE+ 2SFP+ Switch JL258A
Differentiator	Popular 10-port Gig access switch with PoE+ with 10G uplinks.
Fixed Ports	This model has 8x 10/100/1000 PoE+ ports and 2x 10G / 1G SFP+ transceiver slots for uplink connectivity.
PoE+ Budget	PoE+ is supported with a power budget of 125 Watts.
Power consumption	155W (maximum)
Heat dissipation	58.6 BTU/hr (61.8 kJ/hr)
Input voltage	90 - 264 VAC, rated



Feature	Value
Copper Ports	(8) RJ-45 autosensing 10/100/1000 PoE+ ports
SFP+ Ports	(2) 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	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	Packet buffer size: 12.38 MB 4.5 MB Ingress/7.875 MB Egress
Flash Storage	4 GB eMMC
PoE capability	125W 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	2 kg
Product dimensions	4.39 x 25.4 x 25.4 cm

Product Comparison

Feature	JL258A	C1000-8T-E-2G-L	R8Q69A
Switch Type	Layer 3 Gigabit PoE+ access switch	Layer 2 Gigabit unmanaged/ Light L2 access switch	Layer 3 Gigabit access switch
Fixed Ports	8 × 10/100/1000 PoE+ + 2 × 1/10G SFP+	8 × 10/100/1000 + 2 × 1G SFP	24 × 10/100/1000 + 4 × 10G SFP+
PoE Capability	125 W PoE+ budget (802.3af/at)	No PoE on downlink ports (model dependent)	Higher PoE/PoE+ power options on selected SKUs
Switching Capacity	56 Gbps	Up to 20 Gbps (model class)	Up to 128 Gbps (series dependent)
Layer 3 Routing	Static, RIP, Access OSPF	Basic static routing or none (per model)	Advanced Layer 3 features on selected models
Stacking Support	Up to 8-member VSF stacking	No stacking	VSF/VSX or stacking supported on many Aruba models



Feature	JL258A	C1000-8T-E-2G-L	R8Q69A
Management	CLI, Web, SNMP, AirWave, Aruba Central, IMC	Web and basic CLI (limited)	Full Aruba management ecosystem integration
Ideal Deployment	Small enterprise/branch edge with APs and IP devices	Very small offices or simple workgroup switching	Medium to large campus access or aggregation

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 (serial to USB) - Replacement AC Power Cord



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References

[1] HPE Aruba Networking. (2023). HPE Aruba Networking 2930F 8G PoE+ 2SFP+ Switch JL258A Datasheet. Retrieved from <https://www.hpe.com/psnow/doc/PSN1008995547SGEN>