# Aruba JL254A

## Datasheet

## Product Overview

- Aruba 2930F is a Layer 3 access switch series built for modern digital workplaces and mobile-first campuses.

- Ideal for enterprise edge, SMB networks and branch offices that need reliable wired access for users and IoT.

- Delivers wire-speed performance with 10GbE uplinks, advanced QoS, and PoE+ options to power dense edge deployments.

- VSF stacking scales up to eight switches, simplifying expansion and creating a single logical device to manage.

- Tight integration with Aruba Central, AirWave and ClearPass makes provisioning, policy control and monitoring straightforward.

- In offices, schools and retail sites, 2930F provides secure, high-performance access without extra licenses or hidden costs.

## Product Highlights

- **Layer 3 Stackable Access:** 2930F is a family of Layer 3 stackable switches that simplify campus and branch access, with features designed for growing enterprise and SMB networks.

- **Zero Touch and Cloud Management:** Supports Zero Touch Provisioning and integration with Aruba Central, cutting on-site setup time and easing remote rollout of multiple branches.

- **Scalable VSF Stacking:** Up to 8-member VSF stacking lets you scale ports and bandwidth while managing the stack as one device, improving availability and simplifying operations.

- **Flexible Uplinks and PoE+ Power:** Built-in 1GbE or 10GbE uplinks and models with up to 740W PoE+ deliver data and power to APs, IP phones and cameras over a single cable.

## Detailed Features



JL254A

Quote | Help

| Component | Specification |
|---|---|
| Downlink Ports | 48 × 10/100/1000 PoE+ RJ-45 |
| Uplink Slots | 4 × 10G/1G SFP+ slots |
| PoE Standard | IEEE 802.3af/at (PoE+) |
| PoE Power Budget | 370 W (model JL256A reference) |
| Form Factor | 1U rack-mount switch |

## Advanced Layer 3 Services

The switch offers a rich Layer 3 feature set including Access OSPF, static routing and RIP, allowing efficient traffic segmentation and optimized routing in campus and branch networks. ACLs, sFlow and native IPv6 support help ensure visibility and control without additional software licenses.

## High-Performance VSF Stacking

Aruba Virtual Switching Framework enables up to eight physical 2930F switches to operate as one logical device. This design simplifies topology, reduces spanning tree complexity and improves resiliency, while providing flexible 1GbE and 10GbE uplinks and PoE+ options for right-sized access performance.

## Optimized for Aruba Access Points

When connected to Aruba access points, the switch can apply optimal settings automatically, including PoE priority, VLAN assignment and rogue AP containment. This tight integration reduces manual configuration work and improves WLAN stability and security at the wired edge.

## Open Automation and SDN Ready

Support for REST APIs and OpenFlow 1.0/1.3 allows integration with SDN controllers and automation tools. Operators can script provisioning, monitoring and troubleshooting tasks, reducing repetitive work and enabling faster, more consistent network changes across distributed sites.

## ProVision ASIC Performance

Built on Aruba's ProVision ASIC, the 2930F is tuned for mobile campus needs, combining SDN optimizations, low latency forwarding and deep packet buffering. These capabilities help maintain stable performance during traffic bursts and support energy-efficient operation with adaptive power consumption.

## Flexible Queue and Buffer Control

Selectable queue profiles and associated memory buffering let administrators align switch behavior with specific applications, such as voice, video or large data transfers. This fine-grained control helps ensure critical services receive the right priority and minimal jitter in busy edge environments.

## Robust PoE+ Power Delivery

Models in the 2930F series support up to 740W of internal PoE+ power, enough for dense deployments of access points, IP cameras and VoIP phones. Intelligent power management helps allocate power based on device needs, simplifying planning and reducing the need for separate power injectors.

## Comprehensive Security and Management

Security features include 802.1X, MAC and Web Authentication, port security, source-port filtering, RADIUS/ TACACS+, SSL and MAC lockout, helping protect against internal and external threats. Integration with ClearPass, AirWave and Aruba Central streamlines policy enforcement, guest access, monitoring and event reporting, while an out-of-band port keeps management traffic isolated.

# Technical Specifications

## Product Specifications

| Feature | Value |
|---|---|
| Product Number | HPE Aruba Networking 2930F 48G PoE+ 4SFP+ Switch JL256A |
| Differentiator | Popular 52-port Gig + 10G access switch with 370 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 370 Watts. |
| Power consumption | max 459W |
| Heat dissipation | 293.0 BTU/hr (309.1 kJ/hr) |
| Input voltage range | 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 |

| Feature | Value |
|---|---|
| 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 total | Packet buffer size: 12.38 MB |
| Packet buffer ingress | 4.5 MB Ingress |
| Packet buffer egress | 7.875 MB Egress |
| Flash Storage | 4 GB eMMC |
| PoE capability | 370W PoE+ |
| 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 | 4.46 kg |
| Product dimensions (H×W×D) | 4.39 x 44.25 x 30.42 cm |

## Product Comparison

| Feature | JL254A | JL479A | C9300L-48PF-4X-A |
|---|---|---|---|
| Fixed Ports | 48 × 10/100/1000 PoE+ + 4 × 1G/10G SFP+ | 48 × 10/100/1000 + SFP/ SFP+ (model specific) | 48 × 10/100/1000 PoE+ + 4 × 10G SFP+ |
| Switching Capacity | 176 Gbps (2930F series reference) | Similar mid-range campus switching capacity | Up to 208 Gbps switching capacity |
| PoE Power Budget | Up to 370 W PoE+ (model dependent) | PoE / PoE+ power, model dependent | PoE+ 740 W default, expandable with RPS |
| Stacking / Virtualization | VSF stacking up to 8 members | Cisco or Aruba stacking/ virtualization variant dependent | StackWise-320 up to 8 members |
| Layer 3 Features | Static, RIP, Access OSPF, IPv6, ACLs | Advanced L2/L3 features depending on model | Full L3 with routed access, PBR, multicast |
| Management | Aruba Central, AirWave, CLI, Web, SNMP | CLI, Web, SNMP, vendor NMS | DNA Center, CLI, Web UI, SNMP, NETCONF |

| Feature | JL254A | JL479A | C9300L-48PF-4X-A |
|---|---|---|---|
| Target Deployment | Enterprise edge, SMB, branch access | Enterprise access/ aggregation | Enterprise access with advanced SD-Access |
| Typical Advantage | License-free L3 and simple cloud-managed edge | Flexible multi-vendor campus integration | Richer Cisco ecosystem, higher PoE and SDN |

## Accessories

| Category | Accessories |
|---|---|
| Included Accessories | - Power cord<br>- Rack-mount kit (brackets and screws)<br>- Quick installation guide |
| Optional Accessories | - SFP/SFP+ fiber transceivers<br>- Compatible Aruba stack cables (for VSF)<br>- External RPS or UPS for power redundancy |

# Support & Warranty

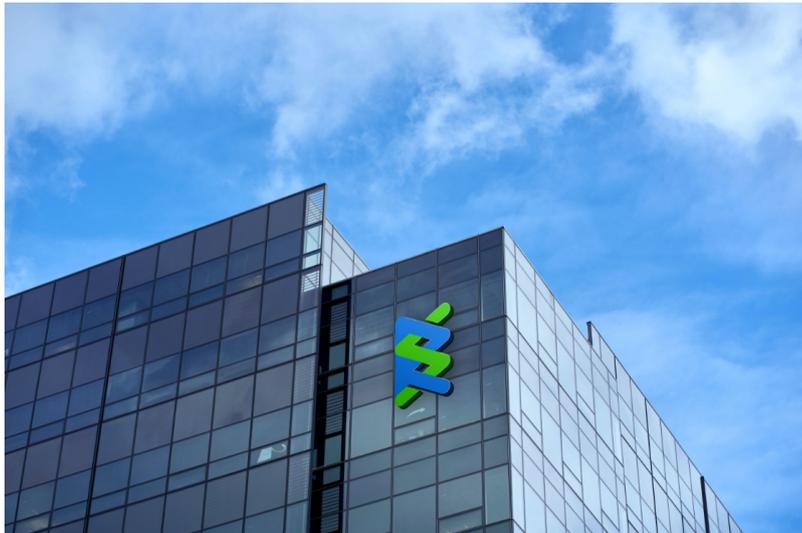| 24/7 Online Service | 3-Year Premium Warranty | Professional Technical Support | 100% Low Price Guarantee | 100% Quality Assurance | 100% Money Back Guarantee |

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# References

[1] Hewlett Packard Enterprise. (n.d.). HPE Aruba Networking 2930F 48G PoE+ 4SFP+ Switch JL256A Datasheet. Retrieved from https://www.hpe.com/psnow/doc/PSN1008995332WWEN.pdf