Aruba JL261A

Datasheet

Product Overview

- The Aruba 2930F Series delivers advanced switching designed for agile, mobile-first networking in modern digital workplaces.

- Ideal for mid-sized enterprises, education, and branch offices, this series supports seamless integration of wired and wireless users.

- Key hardware features include up to 24 PoE+ 10/100/1000 ports, high-speed built-in 1GbE/10GbE uplinks, and robust Layer 3 routing capability.

- Advanced features such as Dynamic Segmentation and Virtual Switching Framework (VSF) stacking simplify scalability, security, and traffic management.

- Simplified deployment is enabled through Zero Touch Provisioning, cloud-based management, and tools like Aruba ClearPass and AirWave.

- The 2930F provides reliable network access and management, streamlining network operations for IT teams and end users alike.

Product Highlights

- **Integrated PoE+ Support:** Delivers power directly to devices like access points, phones, and cameras without the need for extra power supplies.

- **High-Speed Uplinks:** Includes built-in 1GbE or 10GbE uplink ports, supporting high bandwidth and rapid connectivity for demanding applications.

- **Advanced Security and Control:** Leverages tools like Aruba ClearPass Policy Manager for centralized access policy and secure authentication management.

- **Scalable Cloud Management:** Compatible with Aruba AirWave and Aruba Central for simplified, centralized, and remote switch administration at scale.

Detailed Features

JL261A

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Component	Specification
Downlink Ports	24 × RJ-45 autosensing 10/100/1000 PoE+ (IEEE 802.3 Type 10BASE-T, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3at)
Uplink Ports	4 SFP (Gigabit Ethernet)
Duplex Modes	10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
Stacking	Virtual Switching Framework (VSF) supported
Console Port	1 dual-personality (RJ-45 or USB micro-B)

High-Performance Architecture

Powered by the Aruba ProVision ASIC and Dual Core ARM Cortex A9 @ 1016 MHz, ensuring fast, reliable packet processing, support for advanced features, and optimal performance for high-traffic enterprise environments where low latency and throughput matter.

Comprehensive Layer 3 Routing

Built-in Layer 3 functionality includes support for protocols like OSPF, RIP, and static routing. The JL261A can handle up to 2,000 IPv4 and 1,000 IPv6 entries in hardware, serving as a flexible solution for small and medium enterprise networks needing dynamic routing.

Seamless Power Delivery

24 PoE+ ports provide simplified deployment for powered devices such as access points, VoIP handsets, and surveillance cameras, reducing the infrastructure footprint and offering up to 370W of total available PoE power per switch.

Robust Access Control & Security

Features like Dynamic Segmentation, advanced QoS, and integration with Aruba ClearPass Policy Manager enable fine-grained network access control and traffic prioritization, helping IT maintain secure, compliant environments in schools and enterprise offices.

Flexible Uplink Options

The JL261A includes 4 SFP gigabit uplinks for fiber or copper connections, supporting campus extension or high-bandwidth aggregation. These uplinks allow scalability and redundancy in complex network environments.

Intelligent Management Tools

Centralized network monitoring and automation are possible via Aruba AirWave and Aruba Central, providing IT with visibility, provisioning tools, and policy enforcement to reduce manual configuration and overall operational cost.

Environment & Reliability

Designed for challenging environments, it operates reliably from 0°C to 45°C, supports fanless, side-to-side airflow, and features robust metal construction for durability in enterprise wiring closets or open office spaces.

Zero Touch Provisioning

Faster installation for large or distributed deployments is achieved through built-in Zero Touch Provisioning, reducing the network set-up effort for distributed branches or expanding organizations with limited IT resources.

Technical Specifications

Product Specifications

Feature	Value
Downlink Ports	24 RJ-45 autosensing 10/100/1000 PoE+ (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+)
Uplink Ports	4 SFP
Console Port	1 dual-personality (RJ-45 or USB micro-B)
Duplex Support	10BASE-T/100BASE-TX: half/full; 1000BASE-T: full only
Physical Dimensions	17.42 (w) x 11.98 (d) x 1.73 (h) in (44.25 x 30.42 x 4.39 cm) (1U height)
Weight	8.6 lb (3.9 kg)
Processor	Dual Core ARM Cortex A9 @ 1016 MHz
Memory	1 GB DDR3 SDRAM; 4 GB eMMC
Packet Buffer Size	12.38 MB (4.5MB Ingress/7.785MB Egress)
IPv6 Certification	IPv6 Ready Certified

Feature	Value
Latency	< 3.8 µs (64-byte packets)
Performance	Up to 41.7 Mpps
Switching Capacity	56 Gbps
Hardware Routing Table	2,000 IPv4, 1,000 IPv6, 200 OSPF, 256 Static, 10,000 RIP
MAC Address Table	32,768 entries
Operating Temperature	32°F to 113°F (0°C to 45°C) up to 5,000 Feet; 0°C to 40°C (32°F to 104°F) up to 10,000 Feet
Operating Humidity	15% to 95% @ 104°F (40°C), noncondensing
Storage Temperature	-40°F to 158°F (-40°C to 70°C); up to 15,000 Feet
Storage Humidity	15% to 95% @ 149°F (65°C)
Acoustic	Power: 54.1 dB, Pressure: 40.6 dB
Airflow Direction	Side-to-side

Product Comparison

Feature	JL261A	C9300-24U-E	C1-N7009-B2S2E
Port Configuration	24 × 10/100/1000 PoE+ + 4 × SFP	24 × 10/100/1000 UPOE + 4 × 1G SFP	288 × 1G/10G/40G ports (modular)
Switching Capacity	56 Gbps	136 Gbps	7.2 Tbps
Forwarding Rate	41.7 Mpps	102.38 Mpps	5.76 Bpps
PoE Power	370W PoE+	740W UPOE	Up to 7,000W (chassis)
Layer 3 Routing	OSPF, RIP, Static	OSPF, EIGRP, BGP, PBR	OSPF, IS-IS, BGP, MPLS
Stacking	VSF stacking	StackWise-480	Virtual Chassis
Management	Aruba Central, AirWave	DNA Center, Web UI, SNMP	NX-OS, CLI, SNMP
Form Factor	1U fixed	1U fixed	Modular 9-slot chassis

Accessories

Category	Accessories
Included Accessories	- Power Cord - Rack Mount Kit - Console Cable
Optional Accessories	- SFP Transceiver - Redundant Power Supply - Stacking Module

Support & Warranty

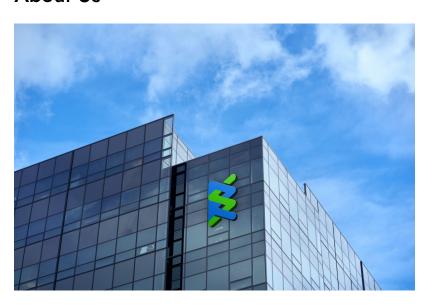| 24/7 Online Service | 3-Year Premium Warranty | Professional Technical Support | 100% Low Price Guarantee | 100% Quality Assurance | 100% Money Back Guarantee |

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References

[1] Aruba Networks. (2023). Aruba 2930F Switch Series Datasheet. Retrieved from https://www.exclusive-networks.com/nl/wp-content/uploads/sites/21/2023/05/DS_2930FSwitchSeries.pdf