Aruba J9729A

Datasheet

Product Overview

- The Aruba 2920 Switch Series, including the J9729A, is a Basic Layer 3 enterprise access switch line designed for secure, scalable edge.

- Ideal for enterprise edge, SMB networks, and remote or branch offices that need reliable wired connectivity and integrated PoE+ power.

- A ProVision ASIC delivers low latency performance, deeper packet buffering and adaptive power use, while a 128 Gbps fabric keeps traffic moving.

- Modular stacking, 10GbE uplinks, PoE+, Access OSPF routing, Tunneled node, ACLs, sFlow and full IPv6 support enhance flexibility.

- Zero Touch Provisioning plus Aruba Central, AirWave and ClearPass simplify deployment, policy control and unified wired and wireless management.

- The J9729A helps build a consistent user experience across sites, scaling cost-effectively as demand grows, without extra software licenses.

Product Highlights

- **Layer 3 and Stacking Capabilities:** Supports Basic Layer 3 features such as static and RIP routing, Access OSPF, plus both modular and virtual stacking for scalable campus or branch designs.

- **Integrated Security and Visibility:** IPv6, ACLs, sFlow and tunneled node combine with policy enforcement to secure user access and provide clear traffic visibility across the network.

- **High-Performance Uplinks and PoE+:** Modular 10GbE uplinks (SFP+ and 10GBASE-T) and upgradeable power supplies deliver up to 1440W PoE+ to power APs, IP phones and cameras.

- **Cloud-Ready and SDN-Enabled:** Zero Touch Provisioning, Aruba Central integration, REST APIs and OpenFlow support prepare the switch for cloud management and software-defined networking.

Detailed Features

J9729A

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Component	Specification
Model	J9729A
Product Series	Aruba 2920 Switch Series
Ports	48x GE PoE+
Switching Capacity	128 Gbps
Form Factor	1U rack-mountable Layer 2/3 Lite switch

High-Density PoE+ Access

The Aruba J9729A offers 48 RJ-45 autosensing 10/100/1000 PoE+ ports, ideal for dense deployments of access points, IP phones, and cameras. With a 370 W PoE budget that can be expanded using upgradeable power supplies in the 2920 family, it supports flexible power allocation and simplifies cabling by delivering data and power over a single Ethernet run.

Non-Blocking Switching Performance

With 128 Gbps switching capacity and a forwarding rate of 95.2 Mpps, the J9729A delivers non-blocking performance for typical enterprise access and branch environments. The ProVision ASIC architecture provides low latency and ample buffering, maintaining throughput even under bursty traffic, which is critical for voice, video, and real-time business applications.

Flexible Stacking Architecture

The switch supports both virtual stacking and physical backplane stacking, enabling pay-as-you-grow expansion and simplified management. Physical stacking with optional modules allows multiple switches to operate as a single logical unit, while virtual stacking supports centralized control without a dedicated stack cable, providing design flexibility for different wiring closets.

Comprehensive Security Controls

Security features include 802.1X port-based authentication, RADIUS and TACACS+ integration, SSL encryption, and more. These capabilities allow fine-grained access control and secure management channels. Combined with ACLs and policy enforcement, the J9729A can segment traffic by user, device, or application to reduce attack surface and support compliance needs.

Layer 2 and Layer 3 Lite Services

Supporting both Layer 2 switching and Layer 3 Lite functionality, the J9729A handles VLAN segmentation, inter-VLAN routing, and basic IP routing. Static routes and RIP make it suitable for small to medium routed access designs, while dual-stack IPv4/IPv6 support prepares networks for modern addressing schemes without requiring a full core router at the edge.

Versatile Management Options

Administrators can manage the switch via an intuitive Web GUI or a full-featured CLI, enabling flexible operation for different skill levels. Integration with Aruba AirWave and Aruba Central provides centralized monitoring, configuration, and troubleshooting, while Zero Touch Provisioning reduces on-site configuration time and the need for local IT staff.

Robust Environmental and Mechanical Design

The J9729A fits standard 19-inch racks with a 1U rack-mountable form factor and dimensions of 17.42 x 16.86 x 1.73 in (44.25 x 42.8 x 4.4 cm). It operates reliably from 32°F to 122°F (0°C to 50°C), powered by a wide-range 100 - 240 VAC, 50/60 Hz input. This makes it suitable for diverse installation environments, from office wiring closets to branch sites with less controlled conditions.

Future-Ready Protocol Support

With support for IPv4 and IPv6 protocols and a 16K MAC address table, the J9729A is ready for evolving network architectures and growing endpoint counts. Dual-stack operation allows gradual IPv6 adoption without disrupting existing IPv4 services. The combination of protocol flexibility and adequate table sizes ensures stable performance as the number of connected devices increases.

Technical Specifications

Product Specifications

Feature	Value
Model	J9729A
Brand	Aruba
Ports	48 RJ-45 autosensing 10/100/1000 PoE+ ports
Switching Capacity	128 Gbps
Forwarding Rate	95.2 Mpps
PoE Budget	370 W
Stacking	Virtual Stacking or physical backplane stacking
Management	Web GUI, CLI

Feature	Value
Dimensions	17.42 x 16.86 x 1.73 in (44.25 x 42.8 x 4.4 cm)
Power Supply	100 - 240 VAC, 50/60 Hz
Mounting	1U Rack Mountable
Security Features	802.1X, RADIUS, TACACS+, SSL, and more
Layer Support	Layer 2/Layer 3 Lite
Operating Temperature	32°F to 122°F (0°C to 50°C)
Network Protocols	IPv4, IPv6
MAC Address Table	16K

Product Comparison

Feature	J9729A	R8R47A	OS6860-48D
Product Type	Layer 2/Layer 3 Lite PoE+ access switch	Aruba switch, fixed Gigabit access	Alcatel-Lucent Enterprise Gigabit switch
Fixed Ports	48 x 10/100/1000BASE-T PoE+	Similar fixed Gigabit Ethernet ports	48 x 10/100/1000Base-T + optional uplinks
Switching Capacity	128 Gbps	Higher capacity in newer Aruba platforms	Up to several hundred Gbps depending on model
PoE Capability	370 W PoE+ budget, upgradeable in series	Higher PoE budget on some R8R47A variants	PoE available on PoE models, lower on non-PoE
Stacking	Virtual or physical backplane stacking	Supports Aruba stacking technologies	Supports advanced stacking for campus
Management	Web GUI, CLI, Aruba Central, AirWave	Cloud and on-prem Aruba management	Web, CLI, and ALE management platforms
Routing Support	Static, RIP, Layer 3 Lite	Enhanced Layer 3 on some R8R47A models	Advanced Layer 3 features on OS6860 series
Ideal Scenario	SMB and branch edge with PoE+ access	Modern Aruba campus or branch refresh	Enterprise access/ aggregation in ALE networks

Accessories

Category	Accessories
Included Accessories	- AC Power Cord - Rack Mount Kit (brackets and screws) - Quick Installation Guide

Category	Accessories
Optional Accessories	- 2-port Stacking Module - SFP/SFP+ Transceiver Modules - Redundant/upgrade Power Supply (series-dependent)

Support & Warranty

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Rm 605, 6/F, Fa Yuen Comm Bldg, 75-77 Fa Yuen St, Mongkok, Kowloon, Hong Kong, China

USA Branch

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Shenzhen Branch

Jingfeng Building, 1001 Shangbu South Road, Futian District, Shenzhen, China

UK Branch

Third Floor, 207 Regent Street, London W1B 3HH, UK

References

[1] Aruba. (n.d.). Aruba 2920 Switch Series J9729A Datasheet. Retrieved from https://www.hpe.com/psnow/doc/c04111401