Aruba J9836A

Datasheet

Product Overview

- The Aruba 2920 Switch Series is a Layer 3 access family designed to deliver secure, scalable edge connectivity for modern enterprises.

- Built for enterprise edge, SMB, and branch offices, it supports dense user access, IP phones, and wireless APs in campuses and distributed sites.

- A ProVision ASIC delivers low latency, higher packet buffering, and adaptive power use to keep performance stable under heavy traffic loads.

- The series supports modular stacking, 10GbE uplinks, PoE+, IPv6, ACLs, sFlow, static and RIP routing, and Access OSPF for flexible designs.

- With Aruba ClearPass and AirWave plus Aruba Central cloud, IT teams gain unified policy control, visibility, and simple remote branch deployment.

- It offers pay-as-you-grow stacking, 10GBASE-T or SFP+ uplinks, license-free Layer 3 features, and limited lifetime warranty to protect long-term investment.

Product Highlights

- **Layer 3 Enterprise Switching:** Provides Layer 3 switching with stacking, static and RIP routing, IPv6 support, ACLs, and sFlow for scalable edge networks.

- **Integrated Security & Visibility:** Works with Aruba ClearPass Policy Manager and Aruba AirWave for centralized security policies and end-to-end network insight.

- **High-Power 10GbE Ready Design:** Offers modular 10GbE uplinks (SFP+ and 10GBASE-T) and upgradeable power supplies delivering up to 1440W PoE+ for dense AP and IP device deployments.

- **Cloud-Ready & SDN Capable:** Supports Zero Touch Provisioning, Aruba Central cloud management, REST APIs, and OpenFlow to fit software-defined and automated networks.

Detailed Features

J9836A

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Component	Specification
Model	J9836A Aruba 2920-48G-PoE+ Switch
Ports	48 × GE PoE+ access ports
PoE Budget	740 W PoE+ total power
Switching Capability	176 Gbps, up to 130.9 Mpps
Layer & Features	Layer 3, stacking, IPv4/IPv6 routing

High-Density Layer 3 Access

The J9836A provides 48 Gigabit PoE+ access ports in a compact 1U rack-mount chassis, ideal for wiring-closet aggregation of users, IP phones, and wireless APs. With 176 Gbps switching capacity and up to 130.9 Mpps forwarding, it maintains wire-speed performance for converged voice, video, and data traffic at the enterprise edge without becoming a bottleneck.

Robust ProVision ASIC Architecture

Built on Arubas ProVision ASIC, the switch delivers low-latency forwarding even when ports are fully utilized, while deeper packet buffering helps absorb traffic bursts from WLAN or uplink congestion. Adaptive power consumption adjusts energy use dynamically, reducing operational costs without sacrificing stability or throughput in busy branch and campus deployments.

Powerful PoE+ for Converged Networks

With a 740 W PoE+ budget, the J9836A can power a large number of 802.3af/at devices directly from the switch, including Wi-Fi access points, IP cameras, and IP phones. This reduces the need for separate power injectors, simplifies cabling, and enables centralized power management, making it well-suited for office, education, and retail installations.

Flexible Uplinks and Stacking Design

The Aruba 2920 platform supports modular 10GbE uplinks, allowing deployment of up to four 10GBASE-T or SFP+ interfaces to match copper or fiber backbones. A 2-port stacking module enables cost-effective modular stacking, letting you start small and scale capacity and resilience over time by adding switches without major redesign or new licenses.

Integrated Layer 3 Routing Capability

The J9836A includes Layer 3 features such as static routing, RIP, and Access OSPF without additional licensing. This allows the switch to act as a routing gateway for VLANs, branch segments, or distribution layers, improving traffic control and resilience while reducing dependence on separate routers in small to medium environments.

Advanced Security and Policy Control

Support for ACLs, sFlow, and integration with Aruba ClearPass Policy Manager provides granular visibility and control over user and device traffic. IT teams can enforce role-based access, segment guests and IoT, and monitor flows for anomalies, helping to protect critical services in enterprise, healthcare, and campus networks.

Centralized Management and Automation

The switch is supported by Aruba AirWave and Aruba Central, enabling centralized monitoring, configuration, and troubleshooting across distributed sites. Zero Touch Provisioning reduces on-site effort during rollouts, while REST APIs enable integration with automation tools and SDN controllers for streamlined operations and faster service deployment.

IPv6 and SDN-Ready Design

Native IPv6 support, including routing table entries and management, prepares networks for dual-stack and future IPv6-only environments. OpenFlow and REST API capabilities make the J9836A suitable for software-defined architectures, allowing traffic engineering, dynamic policy enforcement, and integration with modern orchestration platforms in evolving enterprise infrastructures.

Technical Specifications

Product Specifications

Feature	Value
Model	Aruba 2920-48G-POE+ 740W Switch
Form Factor	Rack-mountable
Number of Ports	48
Power Over Ethernet	Yes (POE+)
Throughput	up to 130.9 Mpps
Switching Capacity	176 Gbps
Routing table size (IPv4)	2048 entries (IPv4)
Routing table size (IPv6)	256 entries (IPv6)
MAC address table size	16000 entries

Feature	Value
Frequency	50/60 Hz
Maximum heat dissipation	482 BTU/hr (508.51 kJ/hr)
Maximum power rating	881 W
PoE power	740 W PoE+
Dimensions (W)	17.42 (w)
Dimensions (D)	13.23 (d)
Dimensions (H)	1.73 (h) in
Operating temperature (Min)	32°F (0°C)
Operating temperature (Max)	131°F (55°C)
Humidity Range (Min)	15% (non-condensing)
Humidity Range (Max)	95% (non-condensing)
Warranty	Limited lifetime warranty

Product Comparison

Feature	J9836A	JL625A	C9300-48UB-E=
Product Type	Layer 3 Gigabit PoE+ access switch	Layer 3 access switch	Layer 3 stackable access switch
Fixed Ports	48 × 1G PoE+	Model dependent, fixed GE ports	48 × mGig (100M/1G/2.5G/5G/10G) + UP uplinks
PoE Budget	740 W PoE+	PoE/PoE+ (model dependent)	High PoE/UPoE, model dependent
Switching Capacity	176 Gbps	Higher capacity in newer ASIC platform	Significantly higher, designed for high-density campus
Stacking Capability	Modular stacking via 2-port stacking module	Virtual or hardware stacking depending on model	StackWise-480/StackWise support
Routing Features	Static, RIP, Access OSPF included	Advanced L3 on certain models with licenses	Rich L3 with advanced routing, QoS, segmentation
Management & SDN	Aruba Central, ClearPass, AirWave, REST, OpenFlow	Aruba Central and modern Aruba OS management	Cisco DNA Center, Cisco Prime, model-driven telemetry
Ideal Deployment	SMB/branch and campus edge with strong PoE needs	General enterprise edge with newer Aruba platform	Large enterprise/campus with multigigabit and high performance

Accessories

Category	Accessories
Included Accessories	- AC power cord - Rack-mount kit (brackets and screws) - Quick installation guide
Optional Accessories	- 10GbE SFP+ transceiver modules - 10GBASE-T uplink module - External redundant power supply unit (RPS)

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. (2014). Aruba 2920-48G-POE+ 740W Switch (J9836A) Specifications. Retrieved from https://www.hpe.com/psnow/doc/c04111401