

Aruba J9781A

Datasheet



Product Overview

- The Aruba 2530 Switch Series is a fully managed Layer 2 access family, delivering secure, cost-effective edge connectivity for modern business networks.
- Designed for enterprises, branch offices, and SMBs, it fits wired access in offices, classrooms, retail sites, and light industrial environments.
- It offers Fast Ethernet and Gigabit models, with options for compact and fanless units, plus PoE+ power budgets up to 370W for edge devices.
- Key differentiators include strong access security, traffic prioritization, sFlow visibility, and full IPv6 host support for future-ready networks.
- The series is easy to roll out and operate using Aruba AirWave or Aruba Central, with Aruba ClearPass providing advanced NAC and captive portal integration.
- Aruba 2530 switches help standardize access across sites, simplify operations, and maintain reliable, secure connectivity over their Limited Lifetime Warranty.

Product Highlights

- **Secure Layer 2 Access:** Aruba 2530 switches deliver robust, cost-effective Layer 2 access with enterprise-grade security, ideal for campus and branch edge networks.
- **Flexible Management Options:** Supports centralized management via Aruba AirWave, Aruba Central, and ClearPass Policy Manager to unify wired and wireless policy control.
- **Right-Sized Port Choices:** Available in 8, 24, and 48-port Fast Ethernet and Gigabit models so you can match switch capacity and budget to each site or wiring closet.
- **High-Power PoE+ and Automation:** Provides up to 370W PoE+ for APs, IP phones, and cameras, plus REST API support and Zero Touch Provisioning for streamlined deployment.

Detailed Features



J9781A

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Component	Specification
Model	Aruba 2530 J9781A
Description	48× GE ports Layer 2 switch
Switching Layer	Layer 2
Power Supply	No PSU included
Deployment	Access layer for campus/branch



Automated Access Point Integration

Switch Auto-Configuration detects connected Aruba access points and automatically applies settings such as VLAN, CoS, PoE maximum power, and PoE priority. This reduces manual configuration work, speeds up AP rollouts, and helps ensure consistent policy enforcement and power allocation across large distributed deployments.

Granular Local User Roles

Local User Role allows administrators to define per-role policies directly on the switch, covering security, authentication, and QoS behavior. Roles can be bound to groups of users or devices, enabling differentiated treatment for guests, IP phones, cameras, or corporate clients without needing complex upstream policy engines.

Advanced QoS Classification Engine

The switch implements IEEE 802.1p traffic prioritization with up to eight hardware queues, supporting WDRR or strict priority scheduling. It can classify traffic using CoS based on IP address, ToS, Layer 3 protocol, TCP/UDP port, source port, and DiffServ fields, ensuring latency-sensitive services like voice and video receive consistent performance.

Flexible QoS and Rate Limiting

Port-based and VLAN-based QoS configuration make it simple to prioritize key segments or uplinks without deep policy scripting. Per-port ingress rate limiting for all traffic or specific broadcast, multicast, and unknown-unicast flows prevents congestion and broadcast storms, while Layer 4 prioritization and flow control stabilize performance under high load.

Scalable Layer 2 VLAN Architecture

The platform supports up to 512 VLANs and 4,094 VLAN IDs, enabling segmented networks for departments, tenants, or services. Jumbo frame support up to 9,220 bytes enhances throughput for backup, storage, and large data transfers, while a 16K MAC address table ensures reliable operation in dense access environments with many endpoints.

Efficient Spanning Tree and VLAN Registration

GARP VLAN Registration Protocol automates VLAN learning and assignment across switches, simplifying multi-switch VLAN deployment. Rapid Per-VLAN Spanning Tree (RPVST+) builds separate trees per VLAN to optimize link use and convergence times, and it is interoperable with Cisco PVST+, easing integration into mixed-vendor networks.

Comprehensive Operations and Visibility

The switch supports Aruba Central and AirWave for cloud or on-premise management, plus web GUI and robust CLI for local control. SNMPv1/v2c/v3, RMON, sFlow, LLDP, port mirroring, and detailed event logging provide rich telemetry for monitoring, troubleshooting, and capacity planning, reducing mean time to repair in production networks.

Resilient Configuration and Maintenance

Dual flash images allow primary and secondary OS storage for safe upgrades and rollbacks, while multiple configuration files can be maintained alongside images for flexible change control. Front-panel LEDs, including locator, per-port, power, and fault indicators, give at-a-glance hardware status, simplifying on-site diagnostics and inventory identification.

Technical Specifications

Product Specifications

Feature	Value
Product Model	Aruba J9781A
Product Brand	Aruba
Product Type	Ethernet Switch
Number of Ports	48
Manageable	Yes
Ethernet Technology	Fast Ethernet, Gigabit Ethernet
Media Type Supported	Twisted Pair
Expansion Slot Type	SFP
Form Factor	Rack-mountable, Wall Mountable, Desktop
Layer Support	Layer 2



Feature	Value
Uplink Port	Yes
Product Series	2530
Network Technology	10/100Base-TX, 10/100/1000Base-T
Quality of Service (QoS)	Yes
Operating Temperature (Min)	0°C
Operating Temperature (Max)	45°C
Mounting	Rack-mountable

Product Comparison

Feature	J9781A	C1-C2960X-48FPS-L	C9300-48S-E
Port Count and Type	48 × 10/100/1000Base-T	48 × 10/100/1000Base-T	48 × 1G SFP
Product Series	Aruba 2530 access switch	Cisco Catalyst 2960-X access switch	Cisco Catalyst 9300 enterprise stackable
PoE Capability	No PoE (No PSU in base spec)	Full PoE+ on all 48 ports	No PoE (SFP-only model)
Layer Support	Layer 2 only	Layer 2 with basic Layer 3 static routing	Advanced Layer 3 with routing and SD-Access
Stacking / Virtualization	Virtual stacking via single IP management	FlexStack-Plus optional stacking	StackWise-480 hardware stacking
Uplink Options	SFP uplinks (Fast/Gigabit models)	4 × 1G SFP or 10G uplinks (model dependent)	4 × 10G/25G uplinks (model dependent)
Management and Automation	Aruba Central, AirWave, web GUI, CLI, SNMP, sFlow	Cisco DNA Center ready, web GUI, CLI, SNMP	Cisco DNA Center, advanced telemetry, model-driven programmability
Ideal Deployment	Cost-optimized campus/branch access with basic L2	SMB/enterprise access needing PoE+ and limited routing	Large enterprise access with high performance and rich services

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Rack-mount kit (brackets and screws) - Console cable (RJ-45 or USB, model dependent) - Quick Installation Guide



Category	Accessories
Optional Accessories	<ul style="list-style-type: none">- External AC power supply unit (for No PSU variant)- SFP transceivers for fiber uplinks- Cable management accessories or rack shelves



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References

[1] Aruba, a Hewlett Packard Enterprise company. (n.d.). Aruba 2530 Switch Series J9781A Specifications. Retrieved from <https://www.hpe.com/psnow/doc/c04111414.pdf>