

# Aruba JL356A

## Datasheet



## Product Overview

- The Aruba 2540 Switch Series brings reliable gigabit access to the modern digital workplace, built to support mobile users and IoT growth.
- Ideal for SMB, branch offices, schools, and distributed enterprises needing simple, secure, and wired connectivity for users and devices.
- It delivers 24 10/100/1000 PoE+ ports plus 4 integrated 1/10GbE SFP+ uplinks, with non-blocking 128 Gbps switching and low latency forwarding.
- Integrated 370W PoE+ powers access points, IP cameras, and IoT endpoints on every port, while REST APIs prepare networks for SDN workflows.
- Zero Touch Provisioning, Aruba Central, AirWave, and ClearPass simplify deployment, monitoring, and policy-based security from a single platform.
- The Aruba JL356A switch offers cost-effective wired access with centralized control, ready for future-ready campus, retail, and branch networks.

## Product Highlights

- **Layer 2 and Routing Features:** Aruba 2540 provides advanced Layer 2 switching with Static and RIP routing, ACLs, and robust QoS to prioritize business-critical traffic.
- **Integrated Security and Visibility:** Works with Aruba ClearPass Policy Manager, AirWave, and Aruba Central for unified security enforcement and centralized monitoring.
- **Zero Touch Deployment:** Supports Zero Touch Provisioning so distributed sites and branches can be brought online quickly with minimal on-site IT effort.
- **High-Power PoE+ and 10GbE:** Up to 370W PoE+ across access ports plus 10GbE SFP+ uplinks, with REST API support for SDN and automation-ready networks.

## Detailed Features



JL356A

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Component	Specification
Switching Capacity	128 Gbps
Forwarding Rate	Up to 95.2 Mpps
Downlink Ports	24 × 10/100/1000BASE-T PoE+ RJ-45
Uplink Ports	4 × 1/10GbE SFP+ slots
PoE Budget	370 W PoE+ (IEEE 802.3at)



### Optimized Access Switching

Aruba JL356A is part of the 2540 Series, designed as a gigabit access switch for modern edge networks. With 24 autosensing 10/100/1000 PoE+ ports, it supports dense endpoint deployments such as wireless APs, IP cameras, and IoT sensors. The platform targets campus edge and branch environments where predictable performance, simplified operations, and cost control are key selection criteria.

### High-Performance Hardware Design

The switch uses a Dual Core ARM Cortex A9 @ 1016 MHz CPU with 1 GB DDR3 SDRAM and 4 GB eMMC for system storage. A 12.38 MB packet buffer, split into 4.5 MB ingress and 7.785 MB egress, helps smooth traffic bursts and avoid packet loss on busy links. Combined with a 128 Gbps switching capacity and up to 95.2 Mpps throughput, JL356A can sustain line-rate forwarding for most SME and campus workloads.

### Flexible Gigabit and 10GbE Connectivity

JL356A offers 24 RJ-45 autosensing 10/100/1000BASE-T PoE+ ports and four SFP+ 1/10GbE uplink slots. The copper ports support IEEE 802.3 10BASE-T, 802.3u 100BASE-TX, and 802.3ab 1000BASE-T, with half or full duplex at 10/100M and full duplex at 1G. The SFP+ uplinks are PHY-less, providing flexible fiber or DAC options for high-speed aggregation, server connections, or uplinks to distribution switches.

### Enterprise-Class PoE+ Powering

With a maximum PoE+ budget of 370 W, the switch can power a large number of 802.3at-compliant devices directly from the access layer. This supports dense deployments of wireless APs, VoIP phones, and surveillance cameras without extra power injectors. Intelligent power allocation, together with an idle system draw of only 36.8 W, enables energy-efficient designs while still meeting peak demand in converged networks.

### Low Latency, Wire-Speed Forwarding

JL356A is engineered for responsive user experience, delivering sub-3.8 μs latency at 1 Gbps and under 1.6 μs latency on 10 Gbps links for 64-byte frames. The 128 Gbps switching fabric and efficient buffering allow the switch to handle high levels of concurrent traffic without congestion. This makes it suitable for latency-sensitive applications such as voice, video, and real-time collaboration across wired access networks.

### Resilient Environmental and Acoustic Design

The switch supports operating temperatures from 0°C to 45°C (32°F to 113°F) up to 5000 feet and 0°C to 40°C (32°F to 104°F) up to 10000 feet, with 15% to 95% noncondensing relative humidity. Acoustic output is controlled at 54.1 dB power and 40.6 dB pressure, and side-to-side airflow simplifies rack planning in wiring closets. This robustness allows reliable operation in typical campus, branch, and small data center environments without special conditioning.

### Robust Electrical and Efficiency Ratings

JL356A supports universal AC input from 100/127 VAC or 200/240 VAC at 50/60 Hz, with rated current of 4.9/2.4 A. The maximum power rating is 445 W with a worst-case heat dissipation of 258.0 BTU/hr (272.2 kJ/hr), letting planners size power and cooling with confidence. 80plus.org Silver certification reflects higher power-conversion efficiency, helping reduce ongoing energy costs in large rollouts.

### Comprehensive Safety and EMC Compliance

The switch meets major global safety standards including UL 60950-1, EN 60950-1, IEC 60950-1, and CSA 22.2, as well as laser safety EN/IEC 60825-1 Class 1. Electromagnetic compatibility is ensured through VCCI Class A, CNS 13438, ICES-003 Class A, FCC Part 15 Class A, and EN 55022 Class A. Immunity is validated against EN 55024 with tests for ESD, radiated fields, EFT/burst, surge, conducted interference, magnetic fields, and voltage dips, ensuring stable behavior in electrically noisy enterprise sites.

## Technical Specifications

### Product Specifications

Feature	Value
Feature	Aruba 2540 24G PoE+ 4SFP+ Switch (JL356A, JL356ACM1)
I/O ports and slots	24 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+)



Feature	Value
Duplex modes	10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
Uplink ports	4 SFP+ 1/10GbE ports; PHY-less
Additional ports and slots	1 dual-personality (RJ-45 or USB micro-B) serial console port
Dimensions (W × D × H)	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
System memory	1 GB DDR3 SDRAM
Packet buffer size	12.38 MB 4.5MB Ingress/7.785 Egress
Onboard storage	4 GB eMMC
1000 Mb Latency	< 3.8 μs (64-byte packets)
10 Gbps Latency	< 1.6 μs (64-byte packets)
Throughput	up to 95.2 Mpps
Switching capacity	128 Gbps
Routing table size	2000 entries (IPv4), 1000 entries (IPv6)
MAC address table size	16384 entries
Operating temperature (0–5000 ft)	32°F to 113°F (0°C to 45°C); up to 5000 Feet
Operating temperature (5000–10000 ft)	- 0C to 40C (32F to 104F) up to 10000 Feet
Operating relative humidity	15% to 95% @ 104°F (40°C), noncondensing
Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C); up to 15000 Feet
Non-operating/Storage relative humidity	15% to 95% @ 149°F (65°C)
Acoustic levels	Power: 54.1 dB, Pressure: 40.6 dB
Airflow direction	Side-to-side
Frequency	50/60 Hz
80plus.org Certification	Silver
Maximum heat dissipation	258.0 BTU/hr (272.2 kJ/hr)
Voltage range	100 - 127 / 200 - 240 VAC, rated
Rated current	4.9/2.4 A
Maximum power rating	445 W
Idle power	36.8 W



Feature	Value
PoE power budget	370 W PoE+
Power notes	Idle power is the actual power consumption of the device with no ports connected.
Design note	Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated
Safety standards	UL 60950-1 2nd Edition; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; IEC 60950-1:2005 +A1:2009 +A2:2013; CSA 22.2 No. 60950-1-07 2nd; EN 60825-1:2007 / IEC 60825-1:2007 Class 1
Emissions compliance	VCCI Class A; CNS 13438; ICES-003 Class A; FCC CFR 47 Part 15, Class A ; EN 55022: 2010/ CISPR-22, Class A
Immunity standard	Generic EN 55024:2010/CISPR 24
Immunity tests (ESD)	ESD IEC 61000-4-2
Immunity tests (Radiated)	Radiated IEC 61000-4-3
Immunity tests (EFT/Burst)	EFT/Burst IEC 61000-4-4
Immunity tests (Surge)	Surge IEC 61000-4-5
Immunity tests (Conducted)	Conducted IEC 61000-4-6
Immunity tests (Magnetic field)	Power frequency magnetic field IEC 61000-4-8
Immunity tests (Voltage)	Voltage dips and interruptions IEC 61000-4-11
Harmonics compliance	Harmonics EN 61000-3-2, IEC 61000-3-2
Flicker compliance	Flicker EN 61000-3-3, IEC 61000-3-3
Management platforms	Aruba AirWave 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)

## Product Comparison

Feature	JL356A	JL253A	R8R48A
Fixed Ports	24 × 10/100/1000BASE-T PoE+ + 4 × 1/10G SFP+	24 × 10/100/1000BASE-T + 4 × 1/10G SFP+	48 × 10/100/1000BASE-T PoE+ + 4 × 10G SFP+
PoE Support	370 W PoE+ budget (IEEE 802.3at)	Non-PoE access switch	Higher PoE+ budget for 48-port dense deployments



Feature	JL356A	JL253A	R8R48A
Switching Capacity	128 Gbps	128 Gbps class	176 Gbps class
Forwarding Performance	Up to 95.2 Mpps	Similar class performance for non-PoE model	Higher Mpps for 48-port design
Routing Features	Layer 2 with Static and RIP routing	Layer 2 with basic routing features	Layer 2/Light Layer 3 depending on model
Management Options	CLI, Web, SNMP, AirWave, Aruba Central, ClearPass integration	CLI, Web, SNMP, AirWave integration	CLI, Web, SNMP, Aruba Central for larger sites
Ideal Deployment	SMB or branch edge with PoE-powered APs and cameras	Cost-effective access for data-only users	Medium/large campus edge needing 48 PoE+ ports

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- AC Power Cord</li> <li>- Rack Mounting Kit</li> <li>- Console Cable (RJ-45 or micro-USB)</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- 1G/10G SFP/SFP+ Transceivers</li> <li>- Direct Attach Copper (DAC) Cables</li> <li>- Cable Management Brackets</li> </ul>



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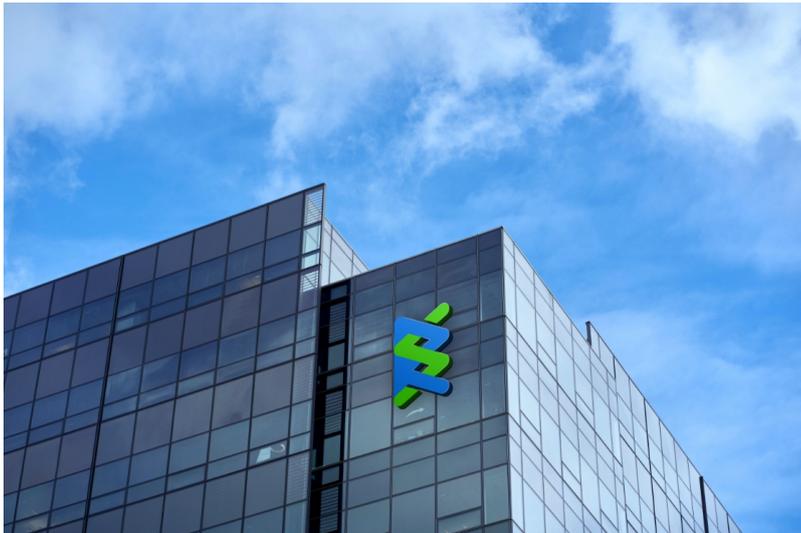


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## References

[1] Aruba. (2017). Aruba 2540 24G PoE+ 4SFP+ Switch (JL356A, JL356ACM1) Datasheet. Retrieved from <https://www.hpe.com/psnow/doc/c05278966>