

Aruba JL357A

Datasheet



Product Overview

- The Aruba 2540 Series JL357A is a Gigabit access switch line built for the digital workplace, aligning wired access with mobile-first and IoT-ready networks.
- Ideal for branch offices, SMBs, and campus edge, it delivers reliable wired connectivity for Wi-Fi 5/6 APs, IP cameras, VoIP phones, and everyday office endpoints.
- It provides 48x 10/100/1000 PoE+ access ports, 4x built-in 1/10GbE SFP+ uplinks, wire-speed performance, and strong QoS to keep latency-sensitive applications stable.
- Integrated with Aruba ClearPass, the switch supports centralized access control, guest onboarding, and external captive portal, enhancing security across diverse user groups.
- Zero Touch Provisioning, Aruba Central, and AirWave support make large-scale rollouts and routine operations simpler for distributed sites and multi-branch networks.
- For organizations modernizing edge networks, JL357A offers an affordable, secure, and cloud-manageable PoE+ platform that scales with growing mobile users and IoT deployments.

Product Highlights

- **Layer 2 and Routing Services:** Delivers advanced Layer 2 switching with static and RIP routing, ACLs, and robust QoS to segment traffic, protect key resources, and optimize critical applications.
- **Integrated Security and Control:** Works with Aruba ClearPass Policy Manager plus Aruba AirWave and Aruba Central, enabling unified security policy, visibility, and lifecycle management across wired and wireless.
- **Zero Touch Deployment:** Supports Zero Touch Provisioning so installers can rack, cable, and power the switch while configuration is pushed automatically from the cloud or central server.
- **High-Bandwidth PoE+ Access:** Built-in 10GbE SFP+ uplinks and up to 370W PoE+ budget power APs, cameras, and IoT endpoints while maintaining high-speed backhaul to the core network.

Detailed Features



JL357A

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| Component | Specification |
|------------------------|--|
| Ports | (48) RJ-45 10/100/1000 PoE+ + (4) SFP+ 1/10GbE |
| Switching Capacity | 176 Gbps |
| Forwarding Performance | Up to 112 Mpps |
| Latency | <3.8 μs (1G), <1.6 μs (10G) |
| PoE Budget | 370 W PoE+ |



High-Density PoE+ Access

JL357A offers 48 autosensing 10/100/1000Base-T PoE+ ports, providing both data and power to a large number of edge devices from a single platform. With a 370W PoE+ budget, it can reliably power dual-radio access points, HD IP cameras, and VoIP phones simultaneously, simplifying cabling and removing the need for separate power injectors or local adapters in busy workspaces.

10GbE Uplinks and Wire-Speed Switching

Four integrated SFP+ 1/10GbE uplink ports give ample headroom for traffic aggregation toward distribution or core switches. Combined with 176Gbps switching capacity and up to 112Mpps forwarding rate, JL357A maintains wire-speed performance even under heavy loads, ensuring consistent throughput for video, voice, and data traffic in modern mobile-first environments.

Optimized Latency for Real-Time Traffic

The platform is designed for low latency, delivering under 3.8µs at 1Gbps and under 1.6µs at 10Gbps. This performance profile supports latency-sensitive applications such as IP telephony, video conferencing, and interactive business tools. When paired with robust QoS features, the switch keeps critical sessions stable, even when network utilization is high.

Robust Processing and Memory Architecture

A dual-core ARM Cortex-A9 running at 1016MHz with 1GB DDR3 SDRAM and 4GB eMMC storage underpins the JL357A hardware. The 12.38MB packet buffer, split between ingress and egress, helps absorb bursts and smooth traffic flows. This architecture supports advanced control-plane functions, monitoring, and policy enforcement without compromising data-plane performance.

Comprehensive Management Options

JL357A supports Aruba AirWave and IMC for multi-vendor NMS, plus a full set of interfaces including CLI, web GUI, Telnet, SNMP manager, RMON1, and FTP. Out-of-band serial RS-232C or micro-USB access enables secure management even when in-band connectivity is affected. This flexibility suits both traditional network teams and cloud-centric operations.

Integrated with Aruba Security Ecosystem

Tight integration with Aruba ClearPass enables centralized policy control, device profiling, and guest access management across wired and wireless domains. External captive portal support simplifies onboarding for visitors and BYOD users. These capabilities help enterprises enforce consistent security posture at the access layer without complex manual configurations on each switch.

Simplified Deployment and Operations

Zero Touch Provisioning allows JL357A to be shipped directly to remote sites and installed by non-specialist staff, with configuration applied automatically from a central server or Aruba Central. Web-based configuration menus and intuitive workflows reduce the time needed for changes and troubleshooting, lowering operating costs for distributed branches and campus environments.

Efficient Power and Thermal Design

Operating from 100127/200240VAC rated input, JL357A is engineered for global deployments in diverse power grids. Maximum power consumption of 459W, aligned with its 370W PoE+ budget, is supported by a thermal design dissipating 1566BTU/hr. This ensures stable operation in standard racks while allowing planners to size power and cooling accurately for wiring closets and small equipment rooms.

Technical Specifications

Product Specifications

| Feature | Value |
|--------------------|---|
| Ports | (48) RJ-45 autosensing 10/100/1000 PoE+ ports; (4) SFP+ 1/10GbE ports; PHY-less |
| Memory Type | 1 GB DDR3 SDRAM; Packet buffer size: 12.38 MB 4.5MB Ingress/7.875MB Egress; 4 GB eMMC |
| Processor | Dual Core ARM Coretex A9 @ 1016 MHz |
| Latency | 1000 Mb Latency: < 3.8 µs; 10 Gbps Latency: < 1.6 µs |
| Throughput | up to 112 Mpps |
| Switching capacity | 176 Gbps |



| Feature | Value |
|--------------------------------|--|
| PoE capability | 370 W PoE+ |
| Management features | Aruba AirWave Network Management; IMC - Intelligent Management Center; Command-line interface; Web browser; Configuration menu; SNMP manager; Telnet; RMON1; FTP; Out-of-band management (serial RS-232C or micro USB) |
| Input voltage | 100 - 127 / 200 - 240 VAC, rated |
| Power consumption | 459 W (maximum) |
| Heat dissipation | 1566 BTU/hr (1652.13 kJ/hr) |
| Product dimensions (H x W x D) | 17.42 x 11.98 x 1.73 in |

Product Comparison

| Feature | JL357A | JL700A | JL667A |
|---------------------------|--|--|--|
| Series Positioning | Aruba 2540 access switch with PoE+ | Aruba CX access/aggregation switch (next-gen) | Aruba CX access switch with advanced features |
| Fixed Ports | (48) 10/100/1000 RJ-45 PoE+ + 4 x 1/10G SFP+ | Typically 48 x 1G + 4 x 10G (model dependent) | Typically 24/48 x 1G + 4 x 10G (model dependent) |
| PoE Capability | 370 W PoE+ budget for edge devices | Higher PoE budgets on selected CX models | PoE/PoE+ support on PoE variants |
| Switching Capacity | 176 Gbps | Higher switching capacity on CX platforms | Higher or comparable capacity vs 2540 series |
| Routing Support | Layer 2 with static and RIP routing | More advanced Layer 3 on many CX models | Enhanced Layer 3 features on CX models |
| Management and Automation | Aruba AirWave, Aruba Central, CLI, Web, SNMP | Modern Aruba CX OS with advanced automation | Aruba CX OS with template-based automation |
| Ideal Deployment | Cost-effective campus and branch edge | High-performance enterprise access/aggregation | Enterprise access with future-ready CX feature set |

Accessories

| Category | Accessories |
|----------------------------|-------------------------|
| Included Accessories | - Power cord (regional) |
| - Rack-mount kit | |
| - Quick installation guide | |



| Category | Accessories |
|--|---------------------------------|
| Optional Accessories | - SFP/SFP+ optical transceivers |
| - Additional rack mounting accessories | |
| - Compatible Aruba DAC cables | |



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References

[1] Hewlett Packard Enterprise (Aruba). (2017). Aruba 2540 Switch Series JL357A Specification. Retrieved from <https://www.hpe.com/psnow/doc/c05278966>