# Aruba JL355A

## Datasheet

# Product Overview

- Aruba 2540 Series switches, including the JL355A, bring reliable Gigabit connectivity to modern digital workplaces and campus edge networks.

- Ideal for mobile-first offices, classrooms, and branch sites, the JL355A delivers consistent wired access for PCs, phones, printers, and wireless APs.

- With 48 Gigabit ports, 4 x 10GbE SFP+ uplinks, and Aruba ProVision ASIC, it offers strong throughput and low latency for business applications.

- Integrated with Aruba ClearPass and AirWave, the JL355A adds policy-based access, visibility, and compliance control across wired and wireless users.

- Zero Touch Provisioning and Aruba Central cloud management simplify rollouts, allowing non-specialist staff to bring new branches online quickly.

- For SMBs and enterprises, the JL355A provides cost-effective, secure access switching that scales from single sites to distributed multi-branch deployments.

# Product Highlights

- **Secure Layer 2 and Basic Routing:** Aruba 2540 JL355A combines Layer 2 switching with static and RIP routing, ACLs, and advanced QoS, making it suitable as an access or small aggregation switch in enterprise and campus networks.

- **Unified Wired-Wireless Policy Control:** Tight integration with Aruba ClearPass Policy Manager and AirWave enables consistent user roles, authentication, and visibility across wired and wireless clients from a single policy framework.

- **Flexible Uplinks and IPv6 Ready:** The switch offers 4 x 1/10GbE SFP+ uplinks, Auto-MDIX, dual-stack IPv4/IPv6, and IPv6 ACL/QoS, helping networks transition smoothly to IPv6 without sacrificing performance.

- **Efficient Operations and Monitoring:** Energy Efficient Ethernet, ProVision ASIC, ZTP, SNMP, RMON, sFlow, and extensive diagnostics reduce power consumption and simplify day-to-day monitoring and troubleshooting.

# Detailed Features



JL355A

| Component | Specification |
|---|---|
| Ports | 48 x 10/100/1000 + 4 x 1/10GbE SFP+ |
| Switching Capacity | 176 Gbps |
| Forwarding Throughput | Up to 112 Mpps |
| VLANs | Up to 2048 VLANs |
| Management | Web GUI, CLI, SNMP, RMON |

## Layer 2 Switching with Integrated Routing

The Aruba JL355A belongs to the 2540 Layer 2 access switch family but also supports static routing and RIP. This allows traffic to be routed locally at the access layer, reducing the load on upstream devices and simplifying network design. Combined with extensive VLAN support and ARP handling, it fits small core or distribution roles in branch and mid-sized environments.

## Unified Policy and Access Control

With Aruba ClearPass Policy Manager support, the JL355A can enforce identity-based policies directly on the switch. User roles, authentication via 802.1X, MAC, or Web, RADIUS and TACACS+, plus Identity-Driven ACLs make it possible to apply per-user or per-device access rights, improving security segmentation without redesigning the physical network.

## Advanced QoS and Traffic Management

The switch offers IEEE 802.1p traffic prioritization, Layer 4 prioritization, Class of Service queues, and rate limiting. Large packet buffers and selectable queue configurations ensure delay-sensitive services like voice and video remain stable during congestion. This fine-grained QoS framework helps maintain predictable performance for business-critical applications.

## Rich Connectivity and IPv6 Support

JL355A provides 48 Gigabit copper ports with Auto-MDIX and four 1/10GbE SFP+ uplinks for flexible aggregation and uplink design. It supports dual-stack IPv4/IPv6, IPv6 host modes, MLD snooping, IPv6 ACL and QoS, and IPv6 routing. These capabilities allow networks to run mixed IP environments and migrate to IPv6 while preserving policy control and monitoring.

## High-Efficiency Hardware Architecture

Powered by the Aruba ProVision ASIC, the JL355A delivers wire-speed switching with low latency and optimized power usage. Energy Efficient Ethernet support and an 80 PLUS Silver certified power supply reduce operating costs in dense deployments. The hardware is built for continuous operation, with features like jumbo frame handling and robust queue scheduling.

## Convergence and IP Multicast Handling

For unified communications and video, the switch supports IGMP and Data-Driven IGMP snooping, plus LLDP and LLDP-MED for automatic discovery of phones and other endpoints. PoE allocation features in related models and local MAC authentication simplify onboarding of IP phones, cameras, and access points, ensuring stable multicast and real-time service delivery.

## Resiliency and High Availability Features

Network resilience is enhanced through IEEE 802.1s MST for loop-free topologies, LACP link aggregation for higher bandwidth and redundancy, and SmartLink for fast failover. STP root guard, BPDU protection, and broadcast throttling safeguard against misconfiguration and Layer 2 storms, keeping access networks stable during faults or user errors.

## Comprehensive Management and Troubleshooting

The JL355A supports SNMP v1/v2/v3, Web GUI, CLI, RMON, XRMON, and sFlow for detailed monitoring. Zero Touch Provisioning and Aruba Central integration streamline mass deployment and lifecycle management. Features like dual flash images, multiple configuration files, Find-Fix-Inform, UDLD, digital optical monitoring, and IP SLA for voice help administrators detect, analyze, and resolve issues quickly.

# Technical Specifications

## Product Specifications

| Feature | Value |
| --- | --- |
| Product Brand | Aruba |
| Product Model | JL355A |
| Product Name | Aruba 2540 48G 4SFP+ Switch |
| Switch Class | Managed |
| Ports | 48 x 10/100/1000 (Gigabit ethernet) + 4 x 1/10GbE SFP+ |
| Power Over Ethernet (PoE) | None |
| Throughput | Up to 112 Mpps |
| Switching Capacity | 176 Gbps |

| Feature | Value |
|---------|-------|
| Form Factor | 1U - Rack-mountable |
| MAC Address Table Size | 32K entries |
| Memory (RAM) | 1 GB |
| Flash Memory | 4 GB |
| Virtual Interfaces (VLANs) | Up to 2048 VLANs |
| IPv4 Routing Entries | Up to 2000 |
| IPv6 Routing Entries | Up to 1000 |
| Management | Web-based Management, CLI, SNMP, RMON |
| Power Supply | Internal Power Supply Unit |
| Energy Efficiency | EEE (Energy Efficient Ethernet) |
| Layer Supported | Layer 3 |
| Quality of Service (QoS) | Advanced QoS Features |
| Security Features | Access Control Lists (ACLs), Secure Shell (SSH), SNMPv3, and more |
| Warranty | Limited Lifetime Warranty |

## Product Comparison

| Feature | JL355A | R8Q68A | JL706A |
|---------|--------|--------|--------|
| Switch Class | Managed | Managed | Managed |
| Fixed Ports | 48 x 10/100/1000 + 4 x 1/10GbE SFP+ | Similar Aruba access switch ports (model specific) | Similar Aruba access switch ports with PoE capability |
| Switching Capacity | 176 Gbps | Higher switching capacity for newer platform | Higher switching capacity for newer Aruba platform |
| Throughput | Up to 112 Mpps | Higher forwarding performance | Higher forwarding performance |
| PoE Support | None | PoE/PoE+ supported on many R8Q68A variants | PoE/PoE+ supported for access points and IP phones |
| Layer 3 Capability | Static routing and RIP | Enhanced Layer 3 features on newer ASIC | Enhanced Layer 3 and policy features |
| Management and Cloud | Web, CLI, SNMP, Aruba Central, ZTP | Aruba Central, advanced telemetry | Aruba Central, advanced automation and analytics |

# Accessories

| Category | Accessories |
|----------|-------------|
| Included Accessories | - Rack-mount kit (brackets and screws)<br>- AC power cord<br>- Quick Installation Guide |
| Optional Accessories | - 1G/10G SFP/SFP+ transceivers<br>- Stackable or high-speed DAC/AOC cables<br>- External console cable or USB-to-serial adapter |

## Support & Warranty

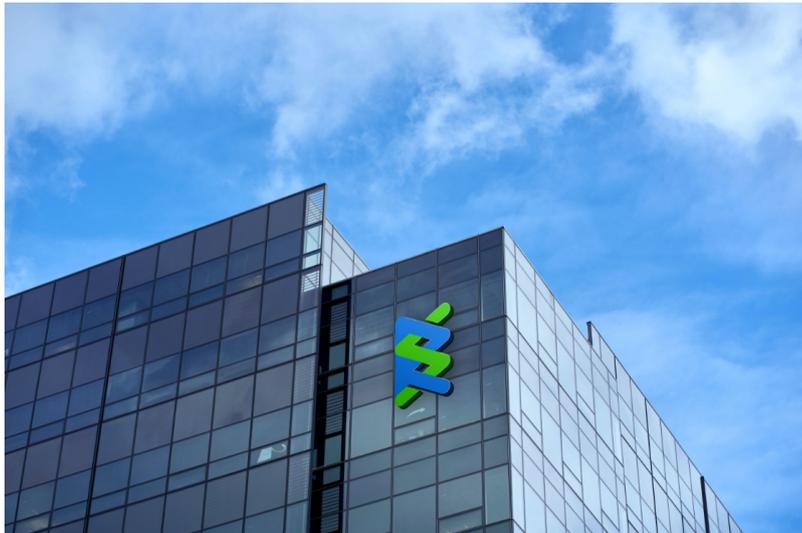| | | | | | |
|---|---|---|---|---|---|
| 24/7 Online Service | 3-Year Premium Warranty | Professional Technical Support | 100% Low Price Guarantee | 100% Quality Assurance | 100% Money Back Guarantee |

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**Sales Inquiries:** sales@router-switch.com
**Expert Technical Support:** ccie-support@router-switch.com
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### Phone

**USA:** +1-626-655-0998
**Hong Kong:** +852-25925389 / +852-25925411

# Global Footprint

Global Warehouses & Service Centers Across Continents.



# Global Branches

## Hong Kong Branch

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

## USA Branch

35 E Horizon Ridge Pkwy, Ste 110 #30131, Henderson, NV 89002, USA

## 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. (2016). Aruba 2540 48G 4SFP+ Switch (JL355A)  Product specifications. Retrieved from https://support.hpe.com/hpesc/public/docDisplay?docId=c05332044&page=GUID-A24AD206-63B2-4C59-BEB2-F5D9FA95D2B6.html