

# Aruba JL684A

## Datasheet

## Product Overview

- Aruba Instant On 1930 Series switches deliver smart-managed Gigabit connectivity for small and growing businesses that need reliable, secure networks.
- Designed for cafés, boutiques, studios, and startups, the JL684A supports high-density Wi-Fi, IP phones, and surveillance in compact or distributed sites.
- This 24-port Gigabit PoE+ model provides 370W power budget, 4x 1G/10G SFP+ uplinks, and 128 Gbps switching capacity to keep traffic flowing smoothly.
- Advanced features such as Layer 2+ switching, static routing, ACLs, and VLAN segmentation help you build secure, segmented networks with minimal effort.
- Cloud portal, mobile app, and local web GUI simplify deployment, monitoring, and troubleshooting, so non-expert staff can manage the network from anywhere.
- Ideal for modern SMBs, JL684A combines high performance, silent operation, and no recurring license fees to deliver enterprise-class networking at SMB budgets.

## Product Highlights

- **High-Density Smart Switching:** 24x 10/100/1000BASE-T ports and 4x 1G/10G SFP+ uplinks deliver non-blocking Gigabit access with 128 Gbps switching capacity for demanding SMB networks.
- **Powerful PoE+ for Edge Devices:** Up to 370W PoE+ budget powers access points, IP phones, cameras, and door locks directly from the switch, simplifying cabling and reducing power adapter use.
- **Flexible Cloud and Local Management:** Configure and monitor the JL684A via Instant On mobile app, cloud portal, or intuitive web GUI to fit different IT skill levels and deployment models.
- **Built-In Security and Low TCO:** ACLs, 802.1X, and VLAN segmentation enhance access security, while no extra licenses plus a limited lifetime warranty keep long-term ownership costs predictable.

## Detailed Features



JL684A

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| Component          | Specification         |
|--------------------|-----------------------|
| Ports              | 24x 10/100/1000BASE-T |
| Uplink Ports       | 4x SFP/SFP+           |
| Switching Capacity | 128 Gbps              |
| PoE Budget         | 370W PoE+ (Class 4)   |
| Forwarding Rate    | 95.23 Mpps            |



## Instant On Cloud Management

The JL684A integrates with the HPE Networking Instant On cloud for unified management of switches and APs. Administrators can onboard devices using the mobile app with guided steps, monitor status, and apply configuration templates remotely. Cloud access removes the need for VPNs or out-of-band tools, enabling small IT teams or non-specialists to maintain distributed sites reliably.

## Zero-Touch Setup and Local GUI

For quick deployments, the switch operates in DHCP client mode, obtaining an IP address automatically and falling back to 192.168.1.1 if no server exists. The built-in web GUI supports multiple HTTPS sessions and offers intuitive wizards for VLANs, PoE, and QoS. This reduces installation time, avoids CLI learning curves, and is well-suited to SMBs and branch offices without dedicated network engineers.

## Optimized Wired and Wireless Integration

When paired with Instant On access points, the JL684A automatically prioritizes PoE power to APs and aligns QoS policies for voice and real-time traffic. Wired and wireless voice flows receive end-to-end priority, ensuring consistent call quality even during peak usage. This tight integration simplifies policy design and avoids manual QoS tuning on each device.

## High-Performance Switching with Flexible Features

The JL684A offers 24x Gigabit access ports and 4x 1G/10G SFP+ uplinks to remove bottlenecks between access and aggregation layers. It supports VLANs, link aggregation, and Layer 3 IPv4 static routing for traffic segmentation and inter-VLAN connectivity without an external router. Features like Spanning Tree and IPv6 host mode enhance network resilience and future-proof mixed protocol environments.

## Enhanced Visibility with Inventory and Topology Views

Through the Instant On cloud portal, all switches and APs at a site appear in a single inventory with an auto-generated topology map. Administrators can visualize device interconnections, quickly locate offline units, and run ping or traceroute tests from the interface. This accelerates fault isolation and reduces truck rolls in multi-site or managed service deployments.

## Robust Security and Access Control

Security is strengthened with Access Control Lists that filter traffic by IP destinations and support time-based rules. IEEE 802.1X authentication and client classification enable granular control per user or device category, such as computers, smart devices, or VoIP phones. Two-Factor Authentication for management accounts adds another layer of defense, protecting the control plane from compromised credentials.

## Automation with Port Profiles and Scheduling

Port Profiles let administrators define reusable templates that bundle security policies, PoE settings, and power schedules. Applying these profiles across many ports speeds up rollouts and reduces configuration errors. Global scheduling can control ACLs, port shutdowns, or PoE delivery by day and time, lowering energy consumption and improving security after business hours.

## Consistent QoS for Critical Applications

Advanced QoS capabilities classify traffic using DSCP or 802.1p and map it to multiple egress queues with SP or WRR scheduling. The auto-voice feature detects IP phones, segments them into a dedicated voice VLAN, and prioritizes their traffic automatically. Together with CoS mapping and VLAN tagging, the JL684A ensures that latency-sensitive services like VoIP and video conferencing remain stable under heavy load.

## Technical Specifications

### Product Specifications

| Feature            | Value                 |
|--------------------|-----------------------|
| Model              | JL684A                |
| Brand              | Aruba                 |
| Ports              | 24x 10/100/1000BASE-T |
| Uplink Ports       | 4x SFP/SFP+           |
| Switching Capacity | 128 Gbps              |
| Forwarding Rate    | 95.23 Mpps            |



| Feature                | Value                     |
|------------------------|---------------------------|
| PoE Support            | Yes, PoE+                 |
| Power Budget           | 370W                      |
| Network Management     | Cloud-based, Web GUI, CLI |
| Mounting Options       | Rack Mount                |
| Dimensions             | 44.95 x 24.35 x 4.39 cm   |
| Power Supply           | Internal                  |
| Operating Temperature  | 0°C to 45°C               |
| MAC Address Table Size | 16K entries               |

## Product Comparison

| Feature            | JL684A                                       | C9300L-48P-4X-E                                  | OS6860-P48                                        |
|--------------------|----------------------------------------------|--------------------------------------------------|---------------------------------------------------|
| Fixed Ports        | 24x 10/100/1000BASE-T                        | 48x 10/100/1000BASE-T                            | 48x 10/100/1000BASE-T                             |
| Uplink Ports       | 4x 1G/10G SFP+                               | 4x 10G SFP+                                      | 4x 10G SFP+                                       |
| PoE Capability     | PoE+ with 370W budget                        | Full PoE+ across 48 ports                        | PoE+ across 48 ports                              |
| Switching Capacity | 128 Gbps                                     | Up to 176 Gbps (platform dependent)              | Up to 256 Gbps (series typical)                   |
| Management         | Instant On cloud, Web GUI, CLI               | Enterprise IOS XE, DNA Center, CLI, Web UI       | OmniSwitch Web, CLI, SNMP, OmniVista              |
| Layer 3 Features   | Layer 2+ with IPv4 static routing            | Full Layer 3 with advanced routing               | Enhanced Layer 3 with dynamic routing             |
| Target Deployment  | SMB access/edge with simple cloud management | Enterprise access with advanced automation       | Campus and enterprise access with richer L3       |
| Licensing Model    | No recurring subscription required           | Feature licensing and optional DNA subscriptions | Feature-based licensing for advanced capabilities |

## Accessories

| Category             | Accessories                                                                                                                                                                              |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Included Accessories | <ul style="list-style-type: none"> <li>- Rack-mount kit</li> <li>- Power cable</li> <li>- Quick Installation Guide</li> </ul>                                                            |
| Optional Accessories | <ul style="list-style-type: none"> <li>- 1G/10G SFP/SFP+ transceivers</li> <li>- Compatible Aruba Instant On access points</li> <li>- Pre-terminated Cat6 copper patch cables</li> </ul> |



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## References

[1] Hewlett Packard Enterprise. (2023). Aruba Instant On 1930 JL684A Switch Product information and purchasing details. Retrieved from <https://www.router-switch.com/jl684a.html>

[2] Hewlett Packard Enterprise. (2023). HPE Networking Instant On Switch Series 1930 Overview (a00098249enw). Retrieved from <https://www.hpe.com/psnow/doc/a00098249enw>