

Aruba JL685A

Datasheet

Product Overview

- Aruba Instant On 1930 Series switches deliver smart-managed Layer 2+ Gigabit connectivity for growing small and midsize businesses.
- Ideal for cafés, studios, co-working spaces, and branch offices that need reliable wired backbones for cloud, voice, and video services.
- This 48-port Gigabit model with 4 SFP+ uplinks offers high switching capacity and non-blocking performance for bandwidth-heavy applications.
- Cloud-managed, app-managed, or local web-managed operation lets partners and IT staff choose the control model that best fits each site.
- Built-in security with VLANs, access control, and segmentation helps keep business, guest, and IoT traffic isolated without complex setup.
- JL685A gives SMBs an affordable, quiet, and scalable access switch that supports modern collaboration, IP surveillance, and everyday office workloads.

Product Highlights

- **Smart Layer 2+ Gigabit Access:** Instant On 1930 switches deliver smart-managed Layer 2+ features across 8-, 24-, and 48-port models, with non-PoE and Class 4 PoE options to match different SMB deployment needs and budgets.
- **Flexible Fiber Uplinks:** 8-port models provide two dedicated 1G SFP uplink slots, while 24- and 48-port models add four dedicated 1G/10G SFP+ uplink ports to remove aggregation bottlenecks and protect core bandwidth.
- **Simple App, Cloud, and Web Control:** Deploy, monitor, and troubleshoot switches from a mobile app, cloud portal, or local web GUI, giving distributors and integrators flexible remote management options without extra controllers.
- **Security and Licensing Included:** Access Control Lists, 802.1X, and VLAN segmentation are built in, and all features ship license-free with an industry-leading limited lifetime warranty and ongoing technical support.

Detailed Features



JL685A

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Component	Specification
Ports	48 × RJ-45 autosensing 10/100/1000 + 4 × SFP+ 1/10GbE
Switching Capacity	176 Gbps
Forwarding Performance	130.95 Mpps
Processor & Memory	ARM Cortex-A9 @ 800 MHz, 512 MB SDRAM, 256 MB flash



Instant On Cloud Management

The Aruba Instant On cloud platform provides unified control for switches and access points through a secure mobile app and web portal. Administrators can onboard new JL685A switches using guided workflows, apply configuration templates, and push firmware updates from anywhere. This removes the need for on-site controllers or VPN jump hosts and shortens deployment time across distributed branches.

Mobile App for Fast Provisioning

With the Instant On mobile app, installers can power up a new 1930 switch, scan its QR code, and complete initial setup in minutes. The app walks users through port configuration, VLANs, uplinks, and guest access without requiring CLI skills. It also exposes monitoring dashboards, event lists, and traffic views so non-specialist IT staff can keep daily operations stable.

High-Performance Non-PoE Design

JL685A offers 48 Gigabit RJ-45 ports and 4 SFP+ 10G uplinks, giving ample edge density while preserving uplink bandwidth to servers or aggregation switches. The non-PoE design suits environments where endpoints draw their own power, lowering thermal output and idle power usage. Hardware resources such as packet buffer and ARM CPU ensure consistent forwarding under heavy multicast and voice/video loads.

Advanced Layer 2 and Basic Layer 3

Beyond basic switching, the 1930 Series supports VLANs, link aggregation, and IPv4 static routing, enabling simple inter-VLAN routing without a separate router. Spanning Tree variations enhance loop protection in ring or mesh topologies. IPv6 host mode and ACLs allow the switch to participate in dual-stack networks while enforcing access policies close to the edge.

Unified Wired and Wireless Experience

When combined with Instant On access points, the switch automatically prioritizes PoE for APs in PoE models and applies consistent QoS handling for voice and collaboration traffic. Even though JL685A itself is non-PoE, the series-level intelligence gives partners flexibility to mix PoE and non-PoE models while keeping a single management plane and policy framework.

Visual Topology and Troubleshooting

The cloud portal offers an inventory view and automatic topology map of all Instant On devices at a site. Administrators can see how JL685A links to upstream and downstream devices, quickly locate failures, and run tools like Ping and Traceroute. LED locator control further simplifies finding the right switch in a rack during on-site visits, reducing mean time to repair.

Granular Security and Client Insight

Built-in Access Control allows policy definition based on IP destinations, while 802.1X and VLAN tagging isolate guest, corporate, and IoT segments. Automated wired client classification identifies device type, family, and OS, helping administrators apply differentiated security or bandwidth policies. Two-Factor Authentication protects cloud management accounts against credential theft.

Scalable Operations Without Recurring Fees

Multi-site management lets MSPs and IT teams manage many locations from one console, with per-site separation of configurations, statistics, and admin roles. Port Profiles speed bulk port configuration for phones, cameras, printers, or APs. All these capabilities are included in the hardware price, with no subscription needed, giving predictable cost of ownership over the switch's lifetime.

Technical Specifications

Product Specifications

Feature	Value
I/O ports and slots	48 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T);
Duplex support	Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
SFP+ ports	4 SFP+ 1/10GbE ports
Dimension	17.42(w) x 11.12(d) x 1.73(h) in (44.25 x 28.24 x 4.39 cm) (1U height)
Processor	ARM Cortex-A9 @ 800 MHz
SDRAM	512 MB SDRAM



Feature	Value
Flash memory	256 MB flash
Packet buffer	packet buffer: 1.5 MB
Throughput (Mpps)	130.95 Mpps
Switching capacity	176 Gbps
Operating temperature	32°F to 104°F (0°C to 40°C)
Operating relative humidity	15% to 95% @ 104°F (40°C)
Nonoperating/Storage temperature	-40°F to 158°F (-40°C to 70°C)
Nonoperating/Storage relative humidity	15% to 95% @ 140°F (60°C)
Altitude	up to 10,000 ft (3 km)
Idle power	16.8 W
PoE support	Not Support
Power Supply	Internal power supply

Product Comparison

Feature	JL685A	JL668A	JL709A
Product Series	Aruba Instant On 1930 48G 4SFP+ Switch	Aruba Instant On 1930 24G Class4 PoE 4SFP/SFP+ 195W Switch	Aruba Instant On 1930 24G 4SFP/SFP+ Switch
Fixed Ports	48 × RJ-45 autosensing 10/100/1000 + 4 × SFP+ 1/10GbE	24 × RJ-45 10/100/1000 (Class 4 PoE) + 4 × SFP/SFP+	24 × RJ-45 10/100/1000 + 4 × SFP/SFP+
PoE Capability	Not Support	Up to 195 W Class 4 PoE budget	Not Support
Switching Capacity	176 Gbps	Approx. 128 Gbps (series typical)	Approx. 128 Gbps (series typical)
Forwarding Performance	130.95 Mpps	Line-rate Layer 2+ forwarding (24-port)	Line-rate Layer 2+ forwarding (24-port)
Management	Instant On cloud, mobile app, local Web GUI	Instant On cloud, mobile app, local Web GUI	Instant On cloud, mobile app, local Web GUI
Deployment Role	High-density non-PoE access or aggregation with 10G uplinks	Access switch for APs, IP cameras, and PoE phones	Compact non-PoE access for small sites with fiber uplinks
Ideal Scenario	Offices needing many data ports and separate powered devices	SMBs powering WLAN and surveillance directly from the switch	Retail and branch offices with moderate port density and low power needs



Accessories

Category	Accessories
Included Accessories	- Rack-mount kit (brackets and screws) - AC power cord - Quick Installation Guide
Optional Accessories	- SFP/SFP+ fiber transceivers - Compatible 10G DAC/AOC cables - Cable management accessories



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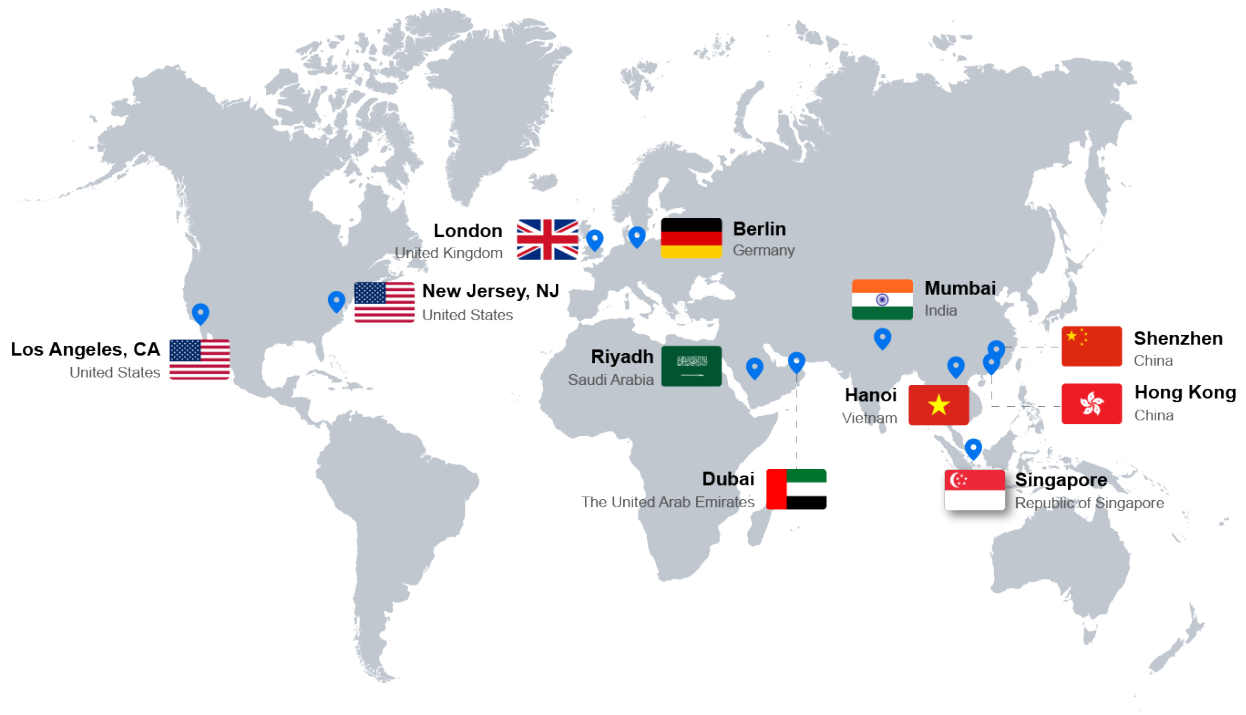
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References

[1] Hewlett Packard Enterprise. (2023). JL685A Specification. Retrieved from <https://www.hpe.com/psnow/doc/a00098249enw>