Aruba JL680A

Datasheet

Product Overview

- Aruba Instant On 1930 Series switches deliver smart-managed Gigabit connectivity, giving small and growing businesses reliable, secure network access.

- Ideal for cafés, design studios, co-working spaces, and SMB offices that need always-on connectivity for staff, guests, and IoT devices.

- The JL680A offers Gigabit downlink ports, dedicated SFP uplinks, and enough switching capacity to keep voice, video, and data traffic running smoothly.

- Built-in security features such as traffic segmentation and access control help protect sensitive business data and guest access on the same network.

- Cloud portal, mobile app, and local web GUI provide flexible deployment and management from anywhere, without extra hardware or complex IT skills.

- Designed to remove network worry for small businesses, JL680A keeps users connected and secure so owners can focus on services, customers, and growth.

Product Highlights

- **Smart-managed Gigabit Access:** Instant On 1930 Series delivers smart-managed Layer 2+ switching with 8-, 24-, and 48-port non-PoE and PoE options to fit different SMB network sizes.

- **High-Power PoE Budget:** Up to 370W of Class 4 PoE across selected models powers access points, IP cameras, and door locks, simplifying cabling and reducing separate power supplies.

- **Flexible Fiber Uplinks:** Two 1G SFP uplinks on 8-port models and four 1G/10G SFP+ uplinks on 24/48-port models remove bottlenecks between access and core layers.

- **Easy, Secure Operation:** Mobile app, cloud portal, and web GUI simplify setup and troubleshooting, while ACLs, 802.1X, VLANs, and no-license lifetime support reduce ongoing cost.

Detailed Features

JL680A

Component	Specification
Ports	8 × 10/100/1000BASE-T RJ-45 + 2 × 1G SFP
Switching Capacity	20 Gbps
Forwarding Performance	14.88 Mpps
Processor & Memory	ARM Cortex-A9 800 MHz, 512 MB SDRAM, 256 MB flash
Dimensions (W × D × H)	10 × 6.28 × 1.73 in (25.4 × 15.95 × 4.39 cm)

Cloud-Based Setup and Management

The HPE Networking Instant On cloud platform allows administrators to deploy and manage JL680A switches and access points from a single mobile app or web portal. Guided workflows simplify initial configuration, firmware updates, and policy changes, so even small teams without deep networking expertise can bring new sites online quickly, monitor health, and adjust settings securely from any location with internet access.

Integrated Wired and Wireless Experience

When paired with Instant On access points, the switch automatically recognizes APs and applies appropriate PoE priority and QoS for voice and video. Traffic from wired and wireless clients is treated consistently, ensuring latency-sensitive applications such as IP telephony, video meetings, and collaboration tools receive priority handling, resulting in clearer calls and smoother conferencing without needing complex manual QoS tuning.

Silent, Aesthetic Hardware Design

JL680A and other fanless models in the series are designed for quiet offices, boutiques, and reception areas where noise and visible IT equipment should not distract customers or staff. The compact form factor and clean industrial design let the switch sit on a desk, shelf, or small rack while blending with modern interiors, giving integrators more flexibility in tight or customer-facing spaces without compromising performance.

High Performance with Flexible Uplinks

The Instant On 1930 family includes multiple non-PoE and PoE variants, and JL680A provides 8 copper Gigabit ports plus 2 dedicated 1G SFP uplinks. This design fits small edge deployments while offering fiber connectivity back to aggregation or core switches. Combined with Layer 2 features, IPv4 static routing, ACLs, and spanning tree, it supports segmented, resilient topologies in small campuses or branch networks.

Optimized User and Device Visibility

Through the cloud portal, administrators can see a full site inventory and topology of all Instant On devices, helping them quickly locate faults and understand traffic paths. Built-in tools such as Ping and Traceroute assist in diagnosing connectivity issues. Automated wired client classification identifies device type, family, and OS, enabling more precise policies and faster troubleshooting for issues tied to specific endpoints.

Strong Multi-Layer Security

The solution incorporates Two-Factor Authentication for management accounts, reducing the risk of compromised credentials. Access Control features allow per-client restrictions based on IP destinations, while VLANs and ACLs enforce segmentation between staff, guests, and IoT. These security controls extend across multiple sites, keeping the management plane and user data safer without needing separate security appliances.

Multi-Site, Multi-Tenant Operation

Instant On supports remote management of many locations from one cloud account, making it suitable for distributed retailers, branch offices, or managed service providers. Each site maintains unique configuration, statistics, and guest portals, and up to three admin accounts per site can be defined with role-based access. This structure enables clear separation between tenants or business units while simplifying centralized oversight.

Powerful QoS and Scheduling Features

The switches offer granular QoS with DSCP and 802.1p classification, auto-voice VLAN for IP phones, and configurable queuing modes such as strict priority and weighted round robin. Global scheduling can control ACL behavior, interface shutdown, and PoE power delivery, allowing businesses to power-cycle devices like cameras or access points by time of day. Together, these capabilities enhance application performance, reduce energy consumption, and align network behavior with business hours.

Technical Specifications

Product Specifications

Feature	Value
I/O ports and slots	8 RJ-45 autosensing 10/100/1000 ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASETX, IEEE 802.3ab Type 1000BASE-T); Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only 2 SFP 1GbE ports
Dimension	10(w) x 6.28(d) x 1.73(h) in (25.4 x 15.95 x 4.39 cm) (1U height)
Processor	ARM Cortex-A9 @ 800 MHz

Feature	Value
Memory	512 MB SDRAM, 256 MB flash; packet buffer: 1.5 MB
Throughput (Mpps)	14.88 Mpps
Switching capacity	20 Gbps
Operating temperature (Min)	32°F (0°C)
Operating temperature (Max)	104°F (40°C)
Operating relative humidity (Min)	15% @ 104°F (40°C)
Operating relative humidity (Max)	95% @ 104°F (40°C)
Nonoperating/Storage temperature (Min)	-40°F (-40°C)
Nonoperating/Storage temperature (Max)	158°F (70°C)
Nonoperating/Storage relative humidity (Min)	15% @ 140°F (60°C)
Nonoperating/Storage relative humidity (Max)	95% @ 140°F (60°C)
Altitude	up to 10,000 ft (3 km)
Idle power	6.2 W
PoE	Not support
Power Supply	External power adapter (included)

Product Comparison

Feature	JL680A	OS6450-U24	OS6350-P48
Port Count	8 × 10/100/1000 RJ-45 + 2 × 1G SFP	24 × 10/100/1000 RJ-45 + 4 × 1G SFP	48 × 10/100/1000 RJ-45 + 4 × 1G SFP
PoE Support	Not support	Selected models with PoE/PoE+	PoE/PoE+ on all access ports (model dependent)
Switching Capacity	20 Gbps	Up to 128 Gbps (model dependent)	Up to 176 Gbps (model dependent)
Forwarding Performance	14.88 Mpps	Higher Mpps for 24-port access	Higher Mpps for 48-port access
Management	Instant On cloud, mobile app, Web GUI	Web, CLI, SNMP, enterprise management	Web, CLI, SNMP, enterprise management
Layer Features	Layer 2+ with static IPv4 routing	Advanced L2/L3 features in enterprise OS	Advanced L2 features with static routing options
Fan Design	Fanless desktop 1U	Fanless or fan-based by model	Typically fan-based for 48 ports
Ideal Scenario	Small offices, cafés, boutiques, micro-branches	SMB/enterprise access with higher port density	Medium to large access floors needing full PoE

Accessories

Category	Accessories
Included Accessories	- External Power Adapter - Rack/Wall Mounting Kit - Quick Installation Guide
Optional Accessories	- 1G SFP Transceiver Modules - Pre-terminated Fiber Patch Cables - Cable Management Brackets

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References

[1] Hewlett Packard Enterprise. (2019). HPE Networking Instant On 1930 Switch Series JL680A Specification. Retrieved from https://www.hpe.com/psnow/doc/a00098249enw