

Aruba JL686A

Datasheet



Product Overview

- Aruba Instant On 1930 Series switches deliver smart-managed Gigabit connectivity with Layer 2+ features for modern small businesses.
- Ideal for cafes, boutiques, agencies, and startups that need always-on wired access for staff, guests, surveillance, and POS systems.
- The JL686A offers 48 Gigabit PoE ports and 10G SFP+ uplinks, handling high-bandwidth apps like HD voice, video meetings, and cloud services.
- Built-in security with VLANs and ACLs segments traffic for users, cameras, and IoT, helping prevent unauthorized access to key resources.
- Cloud portal, mobile app, and local web GUI provide flexible zero-touch deployment, remote monitoring, and simple troubleshooting.
- With no recurring license fees, JL686A gives SMBs enterprise-grade performance and security while keeping network ownership costs predictable.

Product Highlights

- **Flexible Smart-Managed Portfolio:** Instant On 1930 Series offers 8-, 24-, and 48-port models in PoE and non-PoE options, with smart-managed Layer 2+ features tailored for small and medium businesses.
- **High PoE Power Budget:** Up to 370W of Class 4 PoE powers access points, IP phones, cameras, and smart locks directly from the switch, reducing the need for separate power adapters and cabling.
- **High-Speed Fiber Uplinks:** Dedicated 1G SFP ports on 8-port models and 1G/10G SFP+ uplinks on 24/48-port models help remove network bottlenecks and ensure smooth data, voice, and video traffic.
- **Simple, License-Free Management:** Mobile app, cloud portal, and web GUI simplify setup and daily management, while built-in security and lifetime warranty come with no extra license or subscription fees.

Detailed Features



JL686A

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Component	Specification
Ports	48 x 10/100/1000Base-T Class 4 PoE, 4 x 1/10G SFP+ uplinks
Switching Capacity	176 Gbps
Forwarding Rate	130.95 Mpps
Processor & Memory	ARM Cortex-A9 800 MHz, 512 MB SDRAM, 256 MB flash
PoE Budget	370 W Class 4 PoE, internal power supply



Instant On Cloud Management

The Instant On cloud platform and mobile app allow end-to-end management of switches and access points from a single interface. Administrators can onboard devices with guided workflows, monitor real-time status, and push configuration changes without on-site visits, reducing deployment effort and ongoing OPEX in distributed SMB environments.

App-Based Zero-Touch Setup

With the Instant On mobile app, network setup becomes a guided process suitable even for non-specialists. The app discovers switches and APs, applies recommended templates, and brings the site online in minutes. Cloud-based access means admins can fine-tune VLANs, PoE, and guest access from anywhere, eliminating the need for VPNs or dedicated controllers.

Optimized Wired-Wireless Experience

Instant On switches automatically recognize Instant On access points and assign them critical PoE priority to guarantee power during peak loads. End-to-end QoS identifies and prioritizes voice traffic across wired and wireless segments, helping ensure clear calls and stable collaboration sessions even when other applications generate heavy background traffic.

High Performance and Flexible Options

The 1930 Series combines PoE and non-PoE models from 8 to 48 ports, giving partners and SMBs design flexibility. Dedicated 1G and 10G SFP+ uplinks remove aggregation bottlenecks, while advanced features such as VLANs, link aggregation, Layer 3 IPv4 static routing, ACLs, STP variants, and IPv6 host support enable more complex topologies without enterprise-level complexity.

Unified Inventory and Topology View

The cloud portal provides a site-wide inventory of all Instant On switches and APs, plus an auto-generated topology map. This visual layout helps quickly identify offline devices, miswired links, or loop conditions. Integrated tools such as Ping and Traceroute support first-line diagnostics, shortening mean time to repair and improving service uptime.

Secure Access with 2FA and Policies

Two-Factor Authentication strengthens access to the management plane, mitigating risks from stolen passwords. Built-in Access Control features enable policy-based restrictions for wired and wireless clients by IP destination. This combination helps partners and IT admins enforce least-privilege rules, safeguard sensitive segments, and meet basic compliance requirements.

Multi-Site and Intent-Based Control

For MSPs and IT teams managing many branches, the cloud portal separates each site logically, with independent configuration, statistics, guest portal, and role-based admin access. A policy engine supports intent-based management, allowing consistent network-wide policies while still permitting device-level tuning via the local switch web UI.

Automation, Classification, and Port Profiles

Automated wired client classification identifies device type and OS, enabling more accurate policies for computers, VoIP phones, and smart devices. Port Profiles let admins define reusable templates with security, authentication, PoE behavior, and power schedules, then apply them to many ports at once. This accelerates deployment, ensures configuration consistency, and simplifies scaling.

Technical Specifications

Product Specifications

Feature	Value
I/O ports and slots	48 RJ-45 autosensing 10/100/1000 Class 4 PoE ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASETX, IEEE 802.3ab Type 1000BASE-T);
I/O ports and slots (Duplex)	Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only
I/O ports and slots (Uplinks)	4 SFP+ 1/10GbE ports
Dimension	17.42(w) x 12.7(d) x 1.73(h) in (44.25 x 32.26 x 4.39 cm) (1U height)
Processor	ARM Cortex-A9 @ 800 MHz
Memory	512 MB SDRAM, 256 MB flash; packet buffer: 1.5 MB
Throughput (Mpps)	130.95 Mpps



Feature	Value
Switching capacity	176 Gbps
Operating temperature (Min)	32°F (0°C)
Operating temperature (Max)	104°F (40°C)
Operating relative humidity (Range)	15% to 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 (Range)	15% to 95% @ 140°F (60°C)
Altitude	up to 10,000 ft (3 km)
Idle power	34.5 W
PoE	370 W Class 4 PoE
Power Supply	Internal power supply

Product Comparison

Feature	JL686A	JL668A	JL707A
Product Type	Instant On 1930 48G Class 4 PoE 4SFP/SFP+ 370W Switch	Aruba Instant On 1930 Series Switch (model JL668A)	Aruba Instant On 1960 Series Switch (model JL707A)
Fixed Ports	48 × 10/100/1000Base-T PoE, 4 × 1/10G SFP+	Typically 24 × 10/100/1000Base-T + SFP/SFP+ (model specific)	Typically 24/48 × 10/100/1000Base-T + 10G SFP+ (model specific)
PoE Budget	370 W Class 4 PoE	PoE or non-PoE options, lower total budget than JL686A	Higher PoE budget options for dense AP and camera deployments
Switching Capacity	176 Gbps	Lower or similar, depending on port count	Higher switching capacity for stackable models
Layer Features	Layer 2+ with static IPv4 routing	Layer 2+ with static routing on selected models	Layer 2/Layer 3 features with richer routing options
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, plus advanced features
Stacking	Not hardware stackable	Not stackable (1930 access-class)	Virtual or physical stacking supported on 1960 series models
Ideal Scenario	SMB access with many PoE endpoints and 10G uplinks	Smaller SMB access or edge aggregation with moderate PoE	Growing SMBs needing higher capacity, stacking, and more advanced features



Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none">- Internal AC power supply (pre-installed)- Rack-mount kit with brackets and screws- Quick Installation Guide
Optional Accessories	<ul style="list-style-type: none">- SFP and SFP+ fiber transceivers- Compatible Instant On access points- Cable management accessories



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Phone

USA: +1-626-655-0998

Hong Kong: +852-25925389 / +852-25925411



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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] Hewlett Packard Enterprise. (2023). Aruba Instant On 1930 JL686A Switch Specification and Datasheet. Retrieved from <https://www.hpe.com/psnow/doc/a00098249enw>