

# Aruba JL322A

## Datasheet

## Product Overview

- The HPE Aruba Networking 2930M JL322A is a Layer 3 access switch built for mobile-first, cloud-managed campus and branch networks.
- Designed for enterprises, schools, healthcare, and branch offices that need reliable wired access for mobile users, APs, and IoT endpoints.
- It delivers non-blocking performance with wire-speed 10GbE and 40GbE uplinks, high PoE capacity, and a powerful HPE Aruba Networking ProVision ASIC.
- Key differentiators include VSF stacking for up to 10 switches, IEEE 802.3bt up to 60W PoE per port, and HPE Smart Rate multi-gigabit support.
- Zero touch deployment, Aruba Central cloud management, and ClearPass Policy Manager simplify rollout, security policy, and ongoing operations.
- In real-world campus and branch scenarios, JL322A provides scalable power, secure segmentation, and consistent user experience over existing cabling.

## Product Highlights

- **Enterprise Layer 3 Access:** Delivers full Layer 3 access with ACLs, robust QoS, and support for static, RIP, and Access OSPF routing, ideal for campus and branch core-edge designs.
- **Scalable VSF Stacking:** Supports up to 10-member VSF backplane stacking and as many as 480 downlink ports, with models offering 1GbE, 10GbE, and HPE Smart Rate multi-gigabit access.
- **Flexible Uplink & Power Options:** Modular 10GbE SFP+, 1/2.5/5/10GbE Smart Rate, and 40GbE QSFP+ uplinks plus field-replaceable PSUs and up to 60W PoE per port simplify growth.
- **SDN-Ready Management:** Programmable ASIC with REST APIs and OpenFlow, plus Aruba Central, Web GUI, and CLI, provides open, flexible management and SDN integration.

## Detailed Features



JL322A

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Component	Specification
Ports	44 × 10/100/1000BASE-T PoE+ + 4 × 10/100/1000 combo PoE+
Switching Bandwidth	176 Gb/s
Forwarding Rate	112 Mpps
PoE Budget	Up to 1140 W (Max power draw)
Dimensions	17.42 × 12.77 × 1.73 in (1RU)



## Open Programmable Networking

JL322A supports software-defined networking through REST APIs and OpenFlow 1.0/1.3, enabling centralized automation of provisioning, policy changes, and traffic engineering. Network teams can integrate with orchestration platforms, push configuration templates at scale, and collect rich telemetry for monitoring and troubleshooting without manual per-device work.

## Unified Wired & Wireless Policies

With Aruba NAC integration, the switch enforces consistent policies across wired and wireless users. Auto-configuration detects Aruba APs and applies VLAN, CoS, and PoE settings automatically. Role-based policies define security, authentication, and QoS for user or device groups, lowering configuration errors and simplifying multi-site rollouts.

## Dynamic Segmentation Security

Aruba dynamic segmentation lets JL322A apply user, device, and application-aware policies directly at the access layer. Traffic is tunneled on a per-port or per-user-role basis to Aruba controllers when needed, combining local switching efficiency with centralized policy enforcement. This reduces VLAN sprawl and improves security posture for IoT-heavy environments.

## Advanced QoS & Traffic Control

The switch delivers granular QoS with IEEE 802.1p priorities mapped to eight queues, Layer 4 prioritization by TCP/UDP ports, and CoS tagging based on IP, ToS, protocol, or DiffServ. Rate limiting on per-port ingress and per-queue minimums, combined with large packet buffers and Unknown Unicast Rate Limiting, protect critical applications under congestion.

## High-Density Multi-Gig Connectivity

HPE Smart Rate (IEEE 802.3bz) multi-gigabit ports support 1/2.5/5/10GbE over existing copper runs, ideal for Wi-Fi 6/6E APs and bandwidth-hungry IoT. Optional Smart Rate modules and 40GbE QSFP+ uplinks provide flexible designs from access to aggregation, allowing capacity upgrades without recabling.

## Robust PoE and Power Flexibility

JL322A supports IEEE 802.3at PoE+ up to 30W per port and IEEE 802.3bt Class 6 up to 60W per port on compatible models, powering APs, IP phones, cameras, and advanced IoT devices. Support for pre-standard PoE and Auto-MDIX on all copper ports simplifies migrations, while modular PSUs help align power budget to deployment needs.

## IPv6-Ready Routing & Security

Dual-stack IPv4/IPv6, IPv6 host management, and routing with Static, RIPng, and OSPFv3 allow smooth transition to IPv6. Features such as MLD snooping, IPv6 ACL/QoS, RA guard, DHCPv6 protection, dynamic IPv6 lockdown, and ND snooping enhance visibility and protect against common IPv6-based attacks at the access edge.

## Energy-Efficient High Performance

Built on the latest Aruba ProVision ASIC, JL322A offers very low latency, deep packet buffers, and adaptive power consumption. 80 PLUS Gold and Platinum certified power supplies and Energy-Efficient Ethernet (IEEE 802.6az) reduce energy use. Selectable queue configurations let operators tune buffer allocation for voice, video, or data-heavy workloads.

# Technical Specifications

## Product Specifications

Feature	Value
Ports	44 x 10/100/1000 Mb/s Gigabit Ethernet (RJ45) PoE+; 4 x 10/100/1000 Mb/s Gigabit Combo (Ethernet/SFP) PoE+; 1 x Micro-USB; 1 x USB Type-A; 1 x 10/100 Mb/s Ethernet (RJ45)
Layer Services Supported	Layer 3 Support
Supported Protocols	Auto-MDIX/MDI
MAC Address Table Size	32K
Supported IEEE Standards	802.3, 802.3ab, 802.3at, 802.3u
Forwarding Rate	112 Mpps
Switching Bandwidth	176 Gb/s



Feature	Value
Packet Buffer	12.38 MB
Flash Memory	4 GB
Processor	1016 MHz ARM Cortex A9 Dual-Core
Memory	1 GB DDR3
Power Draw (Max)	1140.00 W (Max)
Power Draw (Idle)	40.00 W (Idle)
Power Draw (Standby)	7.0 W (Standby)
Operating Temperature (Min)	32°F / 0°C
Operating Temperature (Max)	131°F / 55°C
Operating Humidity Range	15 to 95%
Storage Temperature (Min)	-40°F / -40°C
Storage Temperature (Max)	158°F / 70°C
Storage Humidity	90%
Operating Altitude	max 10,000' / 3048 m
Storage Altitude	max 15,000' / 4572 m
Noise Level	28.9 dB
Cooling System	Fan
Rack Form Factor	1 RU
Dimensions (W x D x H)	17.42 x 12.77 x 1.73" / 44.25 x 32.43 x 4.39 cm

## Product Comparison

Feature	JL322A	JL625A	R8Q67A
Product Type	Layer 3 Gigabit PoE+ access switch	Aruba switch (model JL625A)	Aruba switch (model R8Q67A)
Fixed Ports	44 x 10/100/1000BASE-T PoE+ + 4 x 10/100/1000 combo PoE+	Model-dependent, typically 1G/10G mix	Model-dependent, typically multi-gig/PoE
Switching Bandwidth	176 Gb/s	Higher or equal, designed for campus access	Higher or equal, newer campus platform
Forwarding Rate	112 Mpps	Higher performance ASIC	High-performance ASIC optimized for Wi-Fi 6/6E



Feature	JL322A	JL625A	R8Q67A
PoE Capability	PoE+ and up to 60W PoE on bt models, max 1140 W draw	High PoE budget on selected models	Enhanced PoE for advanced APs and IoT
Stacking/Expansion	Supports VSF stacking, modular uplink options	Supports stacking on selected models	Supports stacking and modular uplinks
Management	Aruba Central, Web GUI, CLI, SDN-ready APIs	Cloud and on-prem management options	Cloud-centric management with Aruba Central
Ideal Scenario	Campus/branch access with dense PoE and IPv6	General enterprise access upgrades	Next-gen mobile-first and IoT-heavy campuses

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- Rack-mount kit (brackets and screws)</li> <li>- AC power cord</li> <li>- Quick installation guide</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- 10GbE SFP+ transceiver modules</li> <li>- 40GbE QSFP+ uplink modules</li> <li>- Redundant hot-swappable power supplies</li> </ul>



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### UK Branch

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## References

[1] HPE Aruba Networking. (2019). HPE Aruba Networking 2930M Switch Series Datasheet (JL322A). Retrieved from <https://www.hpe.com/psnow/doc/a00001980enw>