

Aruba JL430A

Datasheet



Product Overview

- The Aruba JL430A is a 24-port Gigabit managed switch built for high-performance campus and branch access in modern enterprises.
- Ideal for mid-sized offices, schools, and distributed sites across Asia, Europe, Africa, and North America needing reliable wired access.
- It delivers 24 x 10/100/1000BASE-T ports, 160 Gbps switching capacity, 95.2 Mpps throughput, and low latency for demanding applications.
- Advanced Layer 3 routing with OSPF and BGP, rich QoS, and MSTP plus LACP provide flexible topologies and traffic engineering.
- Centralized management via SNMP, RMON, SSH, and console/management ports simplifies rollouts for distributors and integrators.
- For businesses upgrading from unmanaged or Layer 2 switches, the JL430A offers a solid step to scalable, secure, and resilient networks.

Product Highlights

- **High-Performance Gigabit Access:** 24 x 10/100/1000 ports backed by 160 Gbps switching capacity and 95.2 Mpps forwarding ensure stable performance for office, campus, and branch networks.
- **Advanced Layer 3 Routing:** Supports OSPF, OSPFv2/v3, RIP, and BGP-4, enabling efficient inter-VLAN routing and scalable enterprise edge deployments.
- **Rich Operations and Visibility:** SNMP, RMON (1/2/3/9), Syslog, and sFlow provide granular monitoring, helping integrators and IT teams troubleshoot and optimize traffic.
- **Resilient Power and Design:** 1U rack-mount form factor with internal hot-plug PSU, optional 1+1 power redundancy, and wide temperature range for reliable 24/7 operation.

Detailed Features



JL430A

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Component	Specification
Device Type	24-port managed Gigabit Ethernet switch
Switching Capacity	160 Gbps switching, 169 Gbps fabric
Ports	24 x 10/100/1000Base-T RJ-45
Layer 3 Routing	Supports OSPF, RIP, BGP for enterprise routing
Power	Internal 250 W hot-plug PSU, 1+1 redundancy optional



Enterprise-Grade Gigabit Switching

The Aruba JL430A provides 24 10/100/1000Base-T ports with non-blocking architecture, allowing concurrent line-rate forwarding across all interfaces. With 160 Gbps routing and switching capacity and 169 Gbps switching fabric bandwidth, it supports bandwidth-intensive traffic patterns typical of campus and branch environments. This ensures that access, voice, and video services run smoothly without contention on the backplane, even during traffic peaks.

Deep Layer 3 Routing Capability

This switch integrates advanced Layer 3 features usually found in higher-end platforms, including support for OSPF, OSPFv2, OSPFv3, RIP-1, RIP-2, and BGP/BGP-4. With routing table capacity up to 10,000 entries, the JL430A can participate in dynamic routing domains across multi-site enterprise or service-provider networks. This enables efficient route exchange, loop-free paths, and flexible traffic engineering across IPv4 and IPv6 deployments.

Optimized Forwarding and Low Latency

The JL430A is designed for latency-sensitive applications, delivering 2.8 μs at 1 Gbps and 1.8 μs at 10 Gbps, with throughput up to 95.2 Mpps for 64-byte packets. Such performance levels are critical for real-time collaboration, IP telephony, and transactional workloads. Combined with support for jumbo frames and hardware-based QoS, the platform maintains predictable performance even when handling mixed traffic profiles and large bursts.

Scalable MAC and Table Resources

With a 64K-entry MAC address table and 10,000 routing table entries, the switch is suitable for dense access layers and moderate aggregation roles. These resources allow the platform to support large numbers of endpoints, VLANs, and routed interfaces without exhausting system tables. For integrators and MSPs, this means simplified capacity planning and the ability to standardize on a single model across multiple customer sites without frequent upgrades.

Comprehensive Management and Monitoring

The JL430A supports a wide range of management protocols including SNMP v1/v2c/v3, RMON (1/2/3/9), XRMON, SSH-2, and Syslog. Dedicated console and management RJ-45 ports plus micro-USB provide flexible out-of-band access. These capabilities enable detailed performance analytics, proactive fault detection, and secure administration, making it easier for distributed IT teams and service providers to maintain large switch fleets.

Advanced L2 Features and Resiliency

Full support for IEEE 802.1D, 802.1w, and 802.1s spanning tree variants enables resilient Layer 2 topologies with fast convergence. LACP-based link aggregation allows bandwidth scaling and redundancy on uplinks. MSTP support further refines load sharing across VLAN instances. Together with flow control and full-duplex operation, these mechanisms enhance network reliability and minimize service disruption during link or node failures.

Robust QoS and Traffic Control

Quality of Service is implemented in hardware, with DiffServ support, priority queuing, and traffic classification. Administrators can prioritize latency-sensitive flows such as voice and video while rate-limiting best-effort traffic. sFlow-based traffic sampling and Syslog export offer visibility into utilization, helping optimize bandwidth usage and enforce business policies. This combination is ideal for converged networks in education, hospitality, and enterprise sectors.

Reliable Power and Environmental Design

An internal hot-plug power supply rated at 250 Watt, with support for 1+1 redundancy when an optional PSU is installed, ensures high availability for critical services. Operating temperatures from 32 °F to 113 °F and humidity from 15% to 95% non-condensing provide flexibility in typical wiring closets and small data rooms. Compliance with international safety and EMC standards, including FCC, CISPR, EN, IEC, UL, and VCCI, simplifies global deployment and certification requirements.

Technical Specifications

Product Specifications

Feature	Value
Model	JL430A
Brand	Aruba
Device Type	Switch - 24 ports - managed
Enclosure Type	Rack-mountable 1U
Subtype	Gigabit Ethernet



Feature	Value
Ports	24 x 10/100/1000
Performance - Routing/switching capacity	Routing/switching capacity: 160 Gbps
Performance - Switching fabric bandwidth	Switching fabric bandwidth: 169 Gbps
Performance - Latency (1 Gbps)	Latency (1 Gbps): 2.8 μ s
Performance - Latency (10 Gbps)	Latency (10 Gbps): 1.8 μ s
Performance - Throughput (64-byte packet size)	Throughput (64-byte packet size): 95.2 Mpps
Capacity - Routing tables	Routing tables: 10000
MAC Address Table Size	64K entries
Routing Protocol - Supported protocols	OSPF, BGP-4, RIP-1, RIP-2, BGP, OSPFv2, OSPFv3
Remote Management Protocol - Supported protocols	SNMP 1, RMON 1, RMON 2, RMON 3, RMON 9, SNMP 3, SNMP 2c, SSH-2, XRMON
Encryption Algorithm	SSL
Authentication Method	RADIUS, TACACS+
Features	Flow control, full duplex capability, DHCP support, BOOTP support, VLAN support, Syslog support, DiffServ support, sFlow, Multiple Spanning Tree Protocol (MSTP) support, Quality of Service (QoS), Jumbo Frames support, LLDP support, Link Aggregation Control Protocol (LACP)
Compliant Standards - Layer 2/3	IEEE 802.1D, IEEE 802.1Q, IEEE 802.1p, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1s, IEEE 802.1ad, IEEE 802.1v, IEEE 802.1AX
Interfaces - Copper ports	24 x 1000Base-T RJ-45
Interfaces - Stacking	1 x network stack device
Interfaces - Console	1 x console RJ-45
Interfaces - Management	1 x management (LAN) RJ-45
Interfaces - USB	1 x micro-USB
Expansion Slots	1 (total) / 1 (free) x expansion slot
Power Device	Internal power supply - hot-plug
Installed Qty	1 (installed) / 2 (max)
Power Redundancy	Yes
Power Redundancy Scheme	1+1 (with optional power supply)
Power Provided	250 Watt
Voltage Required	DC 12 V



Feature	Value
Compliant Standards - Safety/EMC	FCC Class A certified, CISPR 22 Class A, EN 60950, EN55022, IEC 61000-4-11, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-8, IEC 60950, UL 60950, UL 60950-1, EN 60825, CAN/CSA C22.2 No. 60950-1, EN 61000-3-3:2008, CAN/CSA C22.2 No. 60950, EN 61000-3-2:2006+A1:2009+A2:2009, VCCI Class A, EN55022:2010, EN 55024:2010, EN 60950-1:2006+A11:2009+A1:2010+A12:2011+AC:2013
Width	17.4 in
Depth	17 in
Height	1.7 in
Min Operating Temperature	32 °F
Max Operating Temperature	113 °F
Humidity Range Operating	15 - 95% (non-condensing)
Min Storage Temperature	-40 °F
Max Storage Temperature	158 °F
Humidity Range Storage	15 - 90% (non-condensing)
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Product Comparison

Feature	JL430A	JL666A	JL479A
Device Type	24-port managed Gigabit switch	Aruba switch model JL666A, managed (details per datasheet)	Aruba switch model JL479A, managed (details per datasheet)
Fixed Ports	24 x 10/100/1000Base-T RJ-45	Typically higher-density or mixed copper/fiber (model dependent)	Typically 24/48 ports, model-specific mix of copper/fiber
Switching Capacity	160 Gbps switching, 169 Gbps fabric	Higher or comparable switching capacity for larger deployments	Capacity optimized for its target access/aggregation role



Feature	JL430A	JL666A	JL479A
Layer 3 Routing	OSPF, RIP, OSPFv2/v3, BGP/BGP-4	Advanced L3 feature set, see Aruba JL666A datasheet	L3/L2+ features depending on JL479A series specification
Management	SNMP, RMON, SSH, console, dedicated mgmt port	Centralized management, Aruba ecosystem integration	Centralized management, Aruba ecosystem integration
Power and Redundancy	Internal 250 W hot-plug PSU, 1+1 optional redundancy	Model supports robust power options for larger sites	Power design aligned with series, PoE or non-PoE variants
Ideal Scenario	Campus/branch access, moderate routing scale	Larger campus or aggregation where higher scale is required	Access or distribution where specific JL479A feature mix fits

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Rack-mount kit (brackets and screws) - AC power cord for internal PSU - Quick installation guide / documentation
Optional Accessories	<ul style="list-style-type: none"> - Additional hot-plug power supply for 1+1 redundancy - SFP/SFP+ transceivers for uplink modules (where applicable) - USB console cable for out-of-band management



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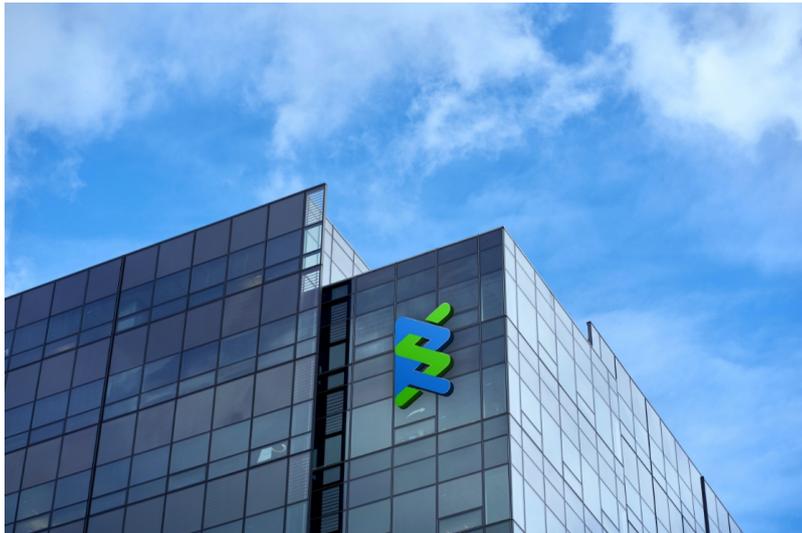


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References

[1] Hewlett Packard Enterprise. (n.d.). Aruba JL430A Switch Technical specifications and features. Retrieved from <https://www.hpe.com/psnow/doc/a00135896enw>