

Aruba JL071A

Datasheet



Product Overview

- The Aruba 3810M JL071A is a modular Layer 3 Gigabit switch designed for high-performance campus and branch aggregation in enterprise networks.
- Ideal for midsize enterprises, education, healthcare, and distributed offices that need resilient wired access with simple scaling and investment protection.
- With 24 autosensing 10/100/1000 RJ-45 ports, up to 4 SFP+ or 1 40GbE uplink, and 160 Gb/s switching capacity, it delivers low-latency wire-speed performance.
- MACsec-ready access ports, optional 40GbE uplink modules, and hot-swappable fan and power slots provide secure, flexible, and resilient deployment options.
- Centralized management via Aruba AirWave and HPE IMC, plus rich CLI and web GUI, simplify provisioning, monitoring, and troubleshooting across multi-site deployments.
- The JL071A suits organizations modernizing their core or aggregation layers, combining scalable throughput, advanced IPv4/IPv6 routing, and energy-efficient operation.

Product Highlights

- **High-Performance Gigabit Access:** 24 autosensing 10/100/1000 RJ-45 ports with wire-speed switching and low latency support high-density user and device access in campus and branch networks.
- **Flexible 10G/40G Uplinks:** An open module slot supports up to 4 SFP+ or 1 40GbE port, allowing scalable uplink bandwidth for server aggregation or core connectivity.
- **Resilient Power and Cooling Design:** Two power supply slots and a modular JL088A fan tray enable redundant, hot-swappable components for improved uptime and service continuity.
- **Advanced Management Options:** Supports Aruba AirWave, HPE IMC, CLI, web GUI, and out-of-band management (Ethernet and serial) for flexible control and easy operations.

Detailed Features



JL071A

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Component	Specification
Type	Aruba 3810M 24G 1-slot Switch
Fixed Ports	24 × 10/100/1000 RJ-45 autosensing ports, MACsec capable
Uplink Expansion	1 module slot for up to 4 × SFP+ or 1 × 40GbE
Switching Capacity	160 Gb/s switching, 169 Gb/s fabric



Component	Specification
Dimensions	1U, 4.39 × 44.25 × 43.13 cm



Enterprise-Grade Switching Fabric

The Aruba 3810M JL071A delivers a routing and switching capacity of 160 Gb/s with a 169 Gb/s switch fabric, ensuring non-blocking performance for demanding enterprise traffic. With throughput up to 95.2 Mp/s on 64-byte packets and ultra-low latency across 1G, 10G, and 40G interfaces, it is well-suited for campus aggregation, high-density access, and latency-sensitive applications such as voice, video, and VDI.

Flexible Multi-Gigabit Connectivity

This switch offers 24 autosensing 10/100/1000 RJ-45 ports supporting IEEE 802.3 10BASE-T, 100BASE-TX, and 1000BASE-T standards. Ports 124 support MACSec, enabling encrypted access at the edge. An open module slot accommodates either up to four SFP+ interfaces or one 40GbE port, allowing administrators to tailor uplink capacity to evolving network designs without replacing the entire chassis.

Redundant Power and Cooling Architecture

The JL071A includes two power supply slots with at least one power supply required, ordered separately, allowing for redundant power configurations to enhance availability. The switch ships with one JL088A fan tray installed and provides a dedicated fan tray slot, enabling simple replacement or spares for high-availability environments. This modular approach reduces downtime during maintenance and supports resilient campus deployments.

Robust Hardware Platform and Memory Resources

The platform combines powerful CPUs and ample memory to handle advanced services. One configuration uses a P2020 dual-core processor at 1.2 GHz with 4 GB DDR3 SDRAM and 1 GB SD card, while another uses dual ARM Cortex-A9 at 1 GHz with 2 GB DDR3 SDRAM and a 13.5 MB internal packet buffer. These resources support complex routing, large tables, and rich management features without compromising forwarding performance.

Scalable IPv4/IPv6 Routing Capabilities

The Aruba 3810M JL071A is IPv6 Ready Certified and supports routing table sizes of up to 10,000 IPv4 entries and 5,000 IPv6 entries. This capacity allows the switch to operate as an aggregation or core device in dual-stack environments. Combined with a MAC address table of 64,000 entries, it can handle large enterprise topologies with many VLANs, subnets, and attached devices while maintaining efficient path selection and convergence.

Carrier-Class Environmental and EMC Compliance

Designed for diverse deployment conditions, the switch operates from 0°C to 45°C with 15%–95% noncondensing humidity and supports altitudes up to 10,000 ft. It meets extensive safety standards, including EN/IEC/UL 60950, EN62368-1, and laser safety IEC 60825-1 Class 1. EMC compliance covers FCC Class A, VCCI Class A, EN 55022/CISPR 22 Class A, plus a full IEC 61000-4 immunity suite, ensuring reliable behavior in electrically noisy or mission-critical sites.

Versatile Management and O&M Tools

Network teams can manage the JL071A using Aruba AirWave Network Management or HPE Intelligent Management Center (IMC) for centralized monitoring, configuration, and reporting. Local control is available via command-line interface, web browser GUI, and configuration menu. Dedicated out-of-band management is provided through an RJ-45 Ethernet port and serial console (RJ-45 or USB micro-B), supporting in-line and out-of-band workflows to simplify troubleshooting and remote access.

Data Center-Grade Mechanical Design

The switch mounts in standard 19-inch EIA telco racks or equipment cabinets, with hardware included for horizontal surface mounting. Its compact 1U form factor (4.39 × 44.25 × 43.13 cm) optimizes rack space, while acoustic levels of 39 dB power and 22.8 dB pressure help maintain acceptable noise in wiring closets and equipment rooms. This combination of mechanical robustness and quiet operation suits office campuses, branches, and controlled industrial environments.

Technical Specifications

Product Specifications

Feature	Value
Type	Aruba 3810M 24G 1-slot Switch
Included accessories	1 Aruba 3810 Switch Fan Tray (JL088A)
I/O ports and slots	· 24 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 modes	Duplex: 10BASE-T/100BASE-TX: half or full;



Feature	Value
	1000BASE-T: full only
MACSec support	· Ports 1 - 24 support MACSec Supports a maximum of 4 SFP+ ports or 1 40GbE ports, with optional module
Module slot	· 1 open module slot
Module options	Supports a maximum of 4 SFP+ ports or 1 40GbE ports, with optional module
Additional ports and slots	· 1 stacking module slot
Console port	· 1 RJ-45 serial console port
OOB management port	· 1 RJ-45 out-of-band management port
Dual-personality port	· 1 dual-personality (RJ-45 or USB micro-B)
Power supplies	· 2 power supply slots
Minimum power requirement	· 1 minimum power supply required (ordered separately)
Fan tray	· Includes: 1 x JL088A
Fan tray slot	· 1 fan tray slot
Fan tray note	Switch ships with 1 JL088A fan tray installed. Spares ordered separately.
Dimensions (H x W x D)	· Dimensions (H x W x D): 4.39 x 44.25 x 43.13 cm (1.73 x 17.42 x 16.98 in) (1U height)
Processor option 1	Memory and processor
Processor details 1	P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card
Processor option 2	Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal
Mounting standard	Mounting and enclosure
Rack mounting	Mounts in an EIA-standard 19 in.
Rack note	telco rack or equipment cabinet (hardware included); Horizontal surface mounting only
IPv6 certification	Performance
IPv6 ready	· IPv6 Ready Certified
1000 Mb latency	· 1000 Mb Latency: < 2.8 μs (FIFO 64-byte packets)
10 Gb/s latency	· 10 Gb/s Latency: < 1.8 μs (FIFO 64-byte packets)
40 Gb/s latency	· 40 Gb/s Latency: 1.5 μs (FIFO 64-byte packets)
Throughput	· Throughput: Up to 95.2 Mp/s (64-byte packets)
Routing/Switching capacity	· Routing/Switching capacity: 160 Gb/s



Feature	Value
Switch fabric speed	· Switch fabric speed: 169 Gb/s
Routing table size IPv4	· Routing table size: 10000 entries (IPv4), 5000 entries (IPv6)
Routing table size IPv6	· Routing table size: 10000 entries (IPv4), 5000 entries (IPv6)
MAC address table size	· MAC address table size: 64000 entries
Operating temperature	Environment
Operating temp range	· Operating temperature: 0°C to 45°C (32°F to 113°F)
Operating humidity	· Operating relative humidity: 15% to 95% @ 40°C (104°F), noncondensing
Storage temperature	· Nonoperating/Storage temperature: -40°C to 70°C (-40°F to 158°F)
Storage humidity	· Nonoperating/Storage relative humidity: 15% to 90% @ 65°C (149°F), noncondensing
Altitude	· Altitude: Up to 10,000 ft (3 km)
Acoustic power	· Acoustic: Power: 39 dB, Pressure: 22.8 dB
Safety standards 1	Safety
Safety EN 60950	· EN 60950/IEC 60950
Safety UL 60950	· UL 60950
Safety UL 60950-1	· UL 60950-1
Safety CAN/CSA	· CAN/CSA 22.2 No. 60950
Safety EN 60825	· EN 60825
Safety CSA 22.2	· CSA 22.2 60950-1
Safety EN62479	· EN62479:2010
Safety EN 60950-1 detail	· EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013
Safety EN62368-1	· EN62368-1, Ed. 2
Safety IEC 60825	· IEC 60825:2007
Safety IEC 60950-1 detail	· IEC 60950-1:2005 Ed.2; Am 1:2009+A2:2013
Safety EN60850-1	· EN60850-1:2007 / IEC 60825-1: 2007 Class1 Class 1 Laser Products / Laser Klasse 1
Safety UL 62368-1	· UL 62368-1 Ed.2
Emissions section	Emissions
FCC class	· FCC Class A



Feature	Value
VCCI class	· VCCI Class A
EN 55022	· EN 55022/CISPR 22 Class A
EN 60950-1 repeat	· EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013
Immunity section	Immunity
Generic standard	· Generic: EN55022: 2010
EN immunity	· EN: EN55024: 2010
ESD immunity	· ESD: IEC 61000-4-2
Radiated immunity	· Radiated: IEC 61000-4-3; 3 V/m
EFT/Burst	· EFT/Burst: IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line)
Surge immunity	· Surge: IEC 61000-4-5; 1 kV/2 kV AC
Conducted immunity	· Conducted: IEC 61000-4-6; 3 V
Power frequency field	· Power frequency magnetic field: IEC 61000-4-8; 1 A/m, 50 or 60 Hz
Voltage dips	· Voltage dips and interruptions: IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
Harmonics	· Harmonics: EN61000-3-2:2006 +A1:2009 +A2:2009 Class A
Flicker	· Flicker: EN61000-3-3:2008
Management section	Management
Aruba AirWave	· Aruba AirWave Network Management
IMC	· IMC – Intelligent Management Center
CLI management	· Command-line interface
Web management	· Web browser
Configuration menu	· Configuration menu;
OOB Ethernet	· Out-of-band management (RJ-45 Ethernet)
In-line and OOB	· In-line and out-ofband
Serial management	· Out-of-band management (serial RS-232c or micro usb)



Product Comparison

Feature	JL071A	OS6860E-24D	OS6900-X20D-F
Type	Aruba 3810M 24G 1-slot Switch	OS6860E-24D stackable Gigabit switch	OS6900-X20D-F 10GbE aggregation switch
Fixed Ports	24 × 10/100/1000 RJ-45	24 × 10/100/1000 RJ-45	20 × 10GbE (SFP+/10GBase-T, model dependent)
Uplink / Expansion	1 slot for 4 × SFP+ or 1 × 40GbE	Modular uplinks, up to 4 × 10GbE	High-density 10/40GbE uplinks
Switching Capacity	160 Gb/s	Up to 432 Gb/s (series typical)	Up to multi-terabit class (series typical)
Stacking Capability	1 stacking module slot, Aruba backplane stacking	Virtual chassis stacking for redundancy	Advanced IRF-like or virtual chassis stacking
PoE Support	Non-PoE model (external PoE via injectors)	Models with PoE/PoE+ options	Typically non-PoE data center focused
Management	Aruba AirWave, IMC, CLI, Web, OOB mgmt	OmniVista NMS, CLI, Web	Data center-class management, CLI, automation APIs
Deployment Role	Campus aggregation / high-density access	Enterprise access / small aggregation	Data center or core / high-performance aggregation

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - 1 × Aruba 3810 Switch Fan Tray (JL088A) - Rack mounting hardware kit - Console cable (RJ-45 or USB micro-B, model dependent)
Optional Accessories	<ul style="list-style-type: none"> - AC power supply modules (ordered separately) - 4 × SFP+ or 1 × 40GbE uplink module - Stacking module and cables



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References

[1] Aruba. (n.d.). Aruba 3810M 24G 1-slot Switch (JL071A) Technical Specifications. Retrieved from <https://www.hpe.com/psnow/doc/a00135896enw>