Aruba JL072A

Datasheet

Product Overview

- The Aruba 3810M JL072A is a high-performance enterprise access switch, built for modern campus and branch networks that demand agility.

- Ideal for midsize to large enterprises, education, and healthcare, it delivers reliable wired connectivity for users, phones, cameras, and APs.

- It features 48 autosensing 10/100/1000 RJ-45 ports, up to 320 Gb/s switching capacity, and 190.5 Mp/s throughput for latency-sensitive services.

- With 1 open module slot supporting 4 SFP+ or 2 × 40GbE uplinks and full MACsec on all 48 ports, it secures high-speed aggregation.

- Centralized management via Aruba AirWave, IMC, CLI, and web GUI, plus out-of-band Ethernet and serial, simplifies multi-site operations.

- For organizations upgrading to scalable, IPv6-ready access, JL072A offers flexible stacking, low latency, and strong security in a compact 1U form.

Product Highlights

- **High-Density Gigabit Access:** 48 autosensing 10/100/1000 RJ-45 ports provide high-density copper access for PCs, IP phones, and wireless APs in campus and branch networks.

- **Flexible Uplink Expansion:** One open module slot supports either 4 SFP+ 10GbE ports or 2 40GbE uplinks, enabling scalable aggregation and core connectivity.

- **Built-In Security with MACsec:** Ports 148 support MACsec, helping protect data on the wire and securing sensitive traffic in enterprise and public sector deployments.

- **Enterprise-Grade Management:** Supports Aruba AirWave, IMC, CLI, web GUI, and out-of-band management, allowing distributors and integrators to standardize operations.

Detailed Features

JL072A

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Component	Specification
Port Density	48 × 10/100/1000Base-T RJ-45 ports with MACsec support
Uplink Expansion	1 module slot for up to 4 SFP+ or 2 × 40GbE ports
Switching Capacity	320 Gb/s switching, 338 Gb/s fabric, 190.5 Mp/s throughput
CPU and Memory	Dual-core CPUs, up to 4 GB DDR3 SDRAM, 13.5 MB packet buffer

Component	Specification
Form Factor	1U, 19-inch rack-mountable chassis with removable fan tray

High-Density Gigabit Access Platform

JL072A delivers 48 autosensing 10/100/1000Base-T ports based on IEEE 802.3 standards, offering linerate access for user and device connectivity. Each port supports half/full duplex at 10/100 Mb and full duplex at 1 Gb, ensuring stable performance for legacy endpoints and modern clients. This density makes it ideal for floor wiring closets where many copper drops converge, reducing the need for additional access switches and simplifying cabling.

Scalable 10GbE and 40GbE Uplink Options

The integrated module slot lets you scale uplink bandwidth as traffic grows. You can install an optional module that provides either 4 SFP+ 10GbE ports or 2 40GbE uplinks, giving flexibility to connect to distribution or core layers. This modular design allows smooth migration from 10G to 40G without replacing the base switch, protecting investment for integrators and end users planning phased upgrades.

Robust Performance and Low Latency

With switching capacity of 320 Gb/s and a fabric speed of 338 Gb/s, JL072A is designed for hightraffic environments. It delivers up to 190.5 Mp/s throughput on 64byte packets with latency under 2.8 µs at 1G, under 1.8 µs at 10G, and 1.5 µs at 40G. These figures ensure predictable performance for voice, video, and realtime applications, while large MAC and routing tables support growing networks without degradation.

Advanced IPv4/IPv6 Routing Resources

The switch supports dualstack environments with routing table sizes of 10,000 IPv4 entries and 5,000 IPv6 entries. This capacity is suitable for campus or large branch networks that segment traffic using multiple VLANs and subnets. Native IPv6 readiness helps organizations align with modern addressing schemes and regulatory requirements, while maintaining efficient IPv4 routing during transition periods.

Comprehensive Security with MACsec

Ports 148 support MACsec, enabling encryption at the link layer to protect data in motion across the access layer. This is critical in open office, education, and healthcare deployments where physical port security cannot always be guaranteed. MACsec helps mitigate threats such as eavesdropping and maninthemiddle attacks on copper links, delivering hardwarebased encryption without compromising performance.

Flexible Management and Operations

JL072A integrates with Aruba AirWave and HPE IMC, simplifying centralized monitoring and configuration across multivendor networks. It offers multiple management interfaces including full CLI, web browser GUI, configuration menus, and outofband access via dedicated RJ45 Ethernet and serial or microUSB ports. This flexibility supports varied operational models for distributors, MSPs, and inhouse IT teams.

Resilient Hardware Design and Environment Tolerance

The switch includes one JL088A fan tray and supports hotswappable fan replacement via a dedicated slot, helping maintain uptime. Two power supply slots allow for redundant power designs when combined with external PSUs. Operating temperature from 0°C to 45°C, humidity up to 95% noncondensing, and altitude up to 3 km make it suitable for wiring closets and edge rooms in diverse regional climates.

Carrier-Class Compliance and EMC Immunity

JL072A meets a wide range of international safety and EMC standards, including EN 60950, UL 60950, EN62368-1, FCC Class A, VCCI Class A, EN 55022/CISPR 22 Class A, and EN55024 immunity requirements. It withstands ESD, surge, conducted and radiated disturbances, and power quality events such as voltage dips. This compliance profile supports deployment in enterprise, government, and regulated environments across global markets.

Technical Specifications

Product Specifications

Feature	Value
Type	Aruba 3810M 48G 1-slot Switch
Included accessories	1 Aruba 3810 Switch Fan Tray (JL088A)
I/O ports and slots – 10/100/1000 ports	48 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)
I/O ports and slots – Duplex modes	Duplex: 10BASE-T/100BASE-TX: half or full
I/O ports and slots – 1000BASE-T duplex	1000BASE-T: full only

Feature	Value
I/O ports and slots – MACSec support	Ports 1 - 48 support MACSec
I/O ports and slots – Module slot	1 open module slot
I/O ports and slots – Uplink capability	Supports a maximum of 4 SFP+ ports or 2 40GbE ports, with optional module
Additional ports and slots – Stacking	1 stacking module slot
Additional ports and slots – Console port	1 RJ-45 serial console port
Additional ports and slots – OOB Ethernet	1 RJ-45 out-of-band management port
Additional ports and slots – Dual-personality	1 dual-personality (RJ-45 or USB micro-B)
Power supplies – Slots	2 power supply slots
Power supplies – Requirement	1 minimum power supply required (ordered separately)
Fan tray – Included	Includes: 1 x JL088A
Fan tray – Slot	1 fan tray slot
Fan tray – Shipping note	Switch ships with 1 JL088A fan tray installed. Spares ordered separately.
Physical characteristics – Dimensions	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)
Memory and processor – CPU 1	P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card
Memory and processor – CPU 2	Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal
Mounting and enclosure – Rack	Mounts in an EIA-standard 19 in.
Mounting and enclosure – Cabinet	telco rack or equipment cabinet (hardware included); Horizontal surface mounting only
Performance – IPv6	IPv6 Ready Certified
Performance – 1000 Mb latency	1000 Mb Latency: < 2.8 µs (FIFO 64-byte packets)
Performance – 10 Gb/s latency	10 Gb/s Latency: < 1.8 µs (FIFO 64-byte packets)
Performance – 40 Gb/s latency	40 Gb/s Latency: 1.5 µs (FIFO 64-byte packets)
Performance – Throughput	Throughput: Up to 190.5 Mp/s (64-byte packets)
Performance – Routing/Switching capacity	Routing/Switching capacity: 320 Gb/s
Performance – Switch fabric speed	Switch fabric speed: 338 Gb/s
Performance – Routing table IPv4	Routing table size: 10000 entries (IPv4)
Performance – Routing table IPv6	Routing table size: 5000 entries (IPv6)
Performance – MAC table	MAC address table size: 64000 entries
Environment – Operating temperature	Operating temperature: 0°C to 45°C (32°F to 113°F)

Feature	Value
Environment – Operating humidity	Operating relative humidity: 15% to 95% @ 40°C (104°F), noncondensing
Environment – Storage temperature	Nonoperating/Storage temperature: -40°C to 70°C (-40°F to 158°F)
Environment – Storage humidity	Nonoperating/Storage relative humidity: 15% to 90% @ 65°C (149°F), noncondensing
Environment – Altitude	Altitude: Up to 10,000 ft (3 km)
Environment – Acoustic power	Acoustic: Power: 38 dB
Environment – Acoustic pressure	Acoustic: Pressure: 21.8 dB
Safety – EN 60950/IEC 60950	EN 60950/IEC 60950
Safety – UL 60950	UL 60950
Safety – UL 60950-1	UL 60950-1
Safety – CAN/CSA 22.2 No. 60950	CAN/CSA 22.2 No. 60950
Safety – EN 60825	EN 60825
Safety – CSA 22.2 60950-1	CSA 22.2 60950-1
Safety – EN62479:2010	EN62479:2010
Safety – EN 60950-1 consolidated	EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013
Safety – EN62368-1 Ed.2	EN62368-1, Ed. 2
Safety – IEC 60825:2007	IEC 60825:2007
Safety – IEC 60950-1 Ed.2	IEC 60950-1:2005 Ed.2; Am 1:2009+A2:2013
Safety – EN60850-1 / IEC 60825-1	EN60850-1:2007 / IEC 60825-1: 2007 Class1 Class 1 Laser Products / Laser Klasse 1
Safety – UL 62368-1 Ed.2	UL 62368-1 Ed.2
Emissions – FCC	FCC Class A
Emissions – VCCI	VCCI Class A
Emissions – EN 55022/CISPR 22	EN 55022/CISPR 22 Class A
Emissions – EN 60950-1 ref	EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013
Immunity – Generic standard	Generic: EN55022: 2010
Immunity – EN standard	EN: EN55024: 2010
Immunity – ESD	ESD: IEC 61000-4-2
Immunity – Radiated	Radiated: IEC 61000-4-3; 3 V/m
Immunity – EFT/Burst	EFT/Burst: IEC 61000-4-4; 1.0 kV (power line), 0.5 kV

Feature	Value
	(signal line)
Immunity – Surge	Surge: IEC 61000-4-5; 1 kV/2 kV AC
Immunity – Conducted	Conducted: IEC 61000-4-6; 3 V
Immunity – Power frequency field	Power frequency magnetic field: IEC 61000-4-8; 1 A/m, 50 or 60 Hz
Immunity – Voltage dips	Voltage dips and interruptions: IEC 61000-4-11; >95% reductions, 0.5 period; 30% reduction, 25 periods
Immunity – Harmonics	Harmonics: EN61000-3-2:2006 +A1:2009 +A2:2009 Class A
Immunity – Flicker	Flicker: EN61000-3-3:2008
Management – AirWave	Aruba AirWave Network Management
Management – IMC	IMC – Intelligent Management Center
Management – CLI	Command-line interface
Management – Web	Web browser
Management – Menu	Configuration menu;
Management – OOB Ethernet	Out-of-band management (RJ-45 Ethernet)
Management – In-line/OOB	In-line and out-ofband
Management – Serial OOB	Out-of-band management (serial RS-232c or micro usb)

Product Comparison

Feature	JL072A	OS6855-U24XDL	C1000-48FP-4G-L
Fixed Ports	48 × 10/100/1000 RJ-45	24 × 1G SFP + 2 × 10G SFP+	48 × 10/100/1000 PoE+ RJ-45
Uplink / Module Slots	1 slot, up to 4 × SFP+ or 2 × 40GbE	Fixed 10G SFP+ uplinks	4 × 1G SFP uplinks
Switching Capacity	320 Gb/s, 338 Gb/s fabric	Up to 128 Gbps (series typical)	104 Gbps
Forwarding Performance	Up to 190.5 Mp/s	Up to 95 Mpps (series typical)	77.4 Mpps
PoE Capability	Not native PoE on JL072A	No PoE on fiber model	Full PoE+ on all 48 ports
Stacking Support	1 stacking module slot	Virtual chassis stacking supported	Stacking not supported
MAC / Routing Table	64K MAC; 10K IPv4, 5K IPv6 routes	Dependent on OS6855 model	16K MAC; basic static and RIP
Management Features	AirWave, IMC, CLI, Web, OOB mgmt	CLI, Web, SNMP, advanced L2/L3	Web, CLI, SNMP, Cisco DNA Center ready
Typical Scenario	High-density secure campus access	Compact aggregation or metro access	Small/medium business PoE access

Accessories

Category	Accessories
Included Accessories	- 1 × Aruba 3810 Switch Fan Tray (JL088A) - Rack mounting kit (rails and screws) - Quick installation guide and console cable
Optional Accessories	- Hot-swappable power supply units (ordered separately) - 10GbE SFP+ or 40GbE uplink modules - SFP/SFP+ optical transceivers and DAC cables

Support & Warranty

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References

[1] Aruba. (n.d.). Aruba 3810M 48G 1-slot Switch (JL072A) Technical Specifications. Retrieved from https://www.hpe.com/psnow/doc/a00135896enw