

# Aruba JL074A

## Datasheet

## Product Overview

- Aruba 3810M JL074A is a high performance, stackable Layer 3 PoE+ switch for enterprise edge, campus, and branch networks.
- Designed for growing wired and wireless access, it fits mid size enterprises, schools, hospitals, and multi site retail deployments.
- It delivers 48x 10/100/1000 PoE+ access ports, MACsec on all access ports, and an expansion slot supporting 10G SFP+ or 40G uplink modules.
- The open module slot and dedicated stacking bay enable flexible uplink growth, hitless stacking, and simplified chassis like expansion.
- Centralized management, out of band ethernet, and USB/console options streamline installation, monitoring, and lifecycle operations.
- With compact 1U design, redundant power and hot swap fans, JL074A protects critical access, powers IoT and APs, and keeps campus services always on.

## Product Highlights

- **Dense PoE+ Edge Access:** 48 autosensing 10/100/1000 PoE+ ports provide high density power and connectivity for access points, IP phones, and cameras across campus or branch networks.
- **Secure User Connectivity:** Ports 148 support MACsec, helping protect data in motion at the access layer and meeting security needs in finance, healthcare, and education.
- **Flexible Performance Expansion:** One open module slot supports up to 4 SFP+ 10G ports or a 40GbE uplink, giving you simple bandwidth upgrades without replacing the switch.
- **Resilient, Serviceable Design:** Dual power supply slots and a removable fan tray support redundancy and quick replacement, reducing downtime and easing field maintenance.

## Detailed Features



JL074A

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Component	Specification
Form Factor	1U rack mountable layer 3 PoE+ switch
Downlink Ports	48 × RJ45 10/100/1000 PoE+ with MACsec
Expansion Slot	1 module slot for 4 × SFP+ or 1 × 40GbE
Management Interfaces	RJ45 console, USB micro-B, QSB RJ45 port
Power & Cooling	2 PSU slots (1 required), 1 × JL088A fan tray included



## High-Density PoE+ Access Layer

Aruba JL074A integrates 48 autosensing 10/100/1000BaseT ports with IEEE 802.3at PoE+ support, allowing the switch to power large numbers of access points, IP phones, and surveillance cameras directly from the edge. This design simplifies cabling, reduces the need for separate power injectors, and helps standardize access for modern, devicerich workspaces across campus and distributed branches.

## Scalable Uplink and Aggregation Options

The builtin open module slot allows deployment of either four SFP+ 10GbE uplinks or a single 40GbE uplink, enabling the switch to scale as aggregation and core bandwidth demands grow. This modular approach protects investment, since uplink capabilities can be upgraded without replacing the base system, supporting phased migration from 1G to 10G and onward to 40G in enterprise and education environments.

## Integrated MACsec for Edge Security

All 48 RJ45 access ports on JL074A support MACsec, providing linerate encryption at the switch edge. This secures traffic between endpoints and the wiring closet, reducing the risk of eavesdropping and maninthemiddle attacks on copper links. Hardwarebased encryption maintains high throughput while helping organizations align with security standards in verticals such as finance, public sector, and healthcare.

## Resilient Power Architecture

Two power supply slots allow the switch to operate with a single PSU while offering the option of adding a second unit for redundancy or increased PoE power budget. Power supplies are ordered separately, so customers can size power to their deployment profile. This flexible power design supports continuous operation during PSU failures or maintenance, enhancing overall network availability.

## Hot-Swappable Fan Tray Design

JL074A is shipped with one Aruba 3810 Switch Fan Tray (JL088A) preinstalled in a dedicated fan tray slot. The hotswappable tray allows field replacement without interrupting service, improving maintainability in wiring closets and remote sites. Keeping cooling independent from the main chassis design helps sustain performance and extend component life in demanding, alwayson environments.

## Optimized Hardware and Memory Resources

The switch platform uses multicore processing and highcapacity DDR3 memory combined with sizable internal packet buffers. This hardware foundation is built to sustain high port utilization, support advanced features, and maintain low latency during traffic bursts. As a result, JL074A can handle voice, video, and data convergence at the access layer while supporting policy enforcement and monitoring.

## Flexible Management and OOB Access

Multiple management interfaces, including an RJ45 serial console port, a dualpersonality RJ45 or USB microB console, and a dedicated outofband management Ethernet port, provide versatile access for deployment and troubleshooting. This allows network teams to manage the switch even during inband outages, supports automation scripts, and simplifies integration into existing NMS and remote operations workflows.

## Standards-Based Rack Deployment

The 1U chassis mounts directly into EIAstandard 19inch telco racks or equipment cabinets using included hardware. Horizontal surface mounting is also supported for wiring rooms with limited rack capacity. This standardsbased mechanical design ensures straightforward replacement of legacy switches, consistent cabling practices, and compatibility with common data center and campus infrastructure layouts.

# Technical Specifications

## Product Specifications

Feature	Value
Type	Aruba 3810M 48G PoE+ 1-slot Switch
Included accessories	1 Aruba 3810 Switch Fan Tray (JL088A)
I/O ports and slots	· 48 RJ-45 autosensing 10/100/1000 PoE+ ports (IEEE 802.3 Type 10BASE-T, IEEE 802.3u Type 100BASE-TX, IEEE 802.3ab Type 1000BASE-T, IEEE 802.3at PoE+);
Duplex Modes	· Duplex: 10BASE-T/100BASE-TX: half or full; 1000BASE-T: full only;
MACSec Support	· Ports 1 - 48 support MACSec



Feature	Value
Module Slot	· 1 open module slot
Uplink 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
Out-of-Band Management Port	· 1 RJ-45 out-of-band management port
Dual-Personality Console	· 1 dual-personality (RJ-45 or USB micro-B)
Power supplies	· 2 power supply slots
Power Supply Requirement	· 1 minimum power supply required (ordered separately)
Fan tray	Includes: 1 x JL088A
Fan Tray Slot	1 fan tray slot
Shipping Fan Tray Info	Switch ships with 1 JL088A fan tray installed. Spares ordered separately.
Physical characteristics	· 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 (SoC 1)	P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card
Memory and processor (SoC 2)	Dual ARM Coretex A9 @ 1 GHz, 2 GB DDR3 SDRAM; Packet buffer size: 13.5 MB Internal
Mounting and enclosure	Mounts in an EIA-standard 19 in.
Mounting Method Detail	telco rack or equipment cabinet (hardware included); Horizontal surface mounting only

## Product Comparison

Feature	JL074A	JL668A	C9300-48U-A
Product Type	Aruba 3810M 48G PoE+ 1-slot Switch	Aruba switch (JL668A series)	Cisco Catalyst 9300 48U switch
Downlink Ports	48 × 10/100/1000 RJ-45 PoE+	48 × multigig/1G (model dependent)	48 × UPOE/UPOE+ 10/100/1000
Uplink Expansion	1 slot for 4 × 10G SFP+ or 1 × 40G	Fixed or modular uplinks depending on model	Modular uplink slots for 10G/25G/40G
PoE Capability	PoE+ on all 48 ports (IEEE 802.3at)	PoE/PoE+ support on access ports	Higher PoE budget with UPOE on all ports
Stacking	Dedicated stacking module slot	Aruba backplane stacking (model dependent)	StackWise-480 StackWise Virtual support



Feature	JL074A	JL668A	C9300-48U-A
Security Features	MACsec on ports 1–48, secure management	Advanced access security, role-based features	MACsec, TrustSec, advanced 802.1X and segmentation
Management	Console, USB, OOB port, centralized Aruba management	Aruba Central / AirWave compatible	Cisco DNA Center, web UI, CLI, SNMP
Deployment Focus	Campus/branch access with modular uplinks	Enterprise access and aggregation in Aruba networks	Enterprise campus access with SD-Access and automation

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- 1 × Aruba 3810 Switch Fan Tray (JL088A)</li> <li>- Rack mounting kit (brackets and screws)</li> <li>- Console cable (RJ45 / 45r USB micro-B, model dependent)</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- Hot-swappable power supply units (various wattages)</li> <li>- 4 × SFP+ 10GbE or 1 × 40GbE uplink module</li> <li>- Additional JL088A fan tray (spare)</li> </ul>



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## References

[1] Aruba, a Hewlett Packard Enterprise company. (n.d.). Aruba 3810M 48G PoE+ 1-slot Switch (JL074A) Product information. Retrieved from <https://www.hpe.com/psnow/doc/a00135896enw>