

# Aruba JL075A

## Datasheet



## Product Overview

- Aruba JL075A is part of the Aruba 3810M switch series, a modular 10GbE aggregation platform built for high-performance campus and branch cores.
- Designed for medium to large enterprises, education, healthcare, and government, it suits data-intensive access, Wi-Fi aggregation, and server connectivity.
- The switch provides 16 fixed 1/10GbE SFP+ ports, dual module slots for extra 10/40GbE, and a powerful multi-core architecture with large packet buffer.
- Advanced features include MACsec on all 16 SFP+ ports for secure uplinks, stacking support for scalable growth, and flexible front-access design.
- Centralized management via out-of-band Ethernet, serial console, and USB simplifies deployment, while 1U rack mounting fits standard 19-inch racks and cabinets.
- Aruba JL075A delivers secure, high-density 10GbE fiber aggregation ideal for modern wireless-first campuses needing consistent throughput and easy expansion.

## Product Highlights

- **High-Density 10GbE Fiber Aggregation:** 16 fixed 1000/10000 SFP+ ports provide flexible 1G or 10G fiber connectivity, ideal for aggregating access switches, uplinking high-capacity AP clusters, and connecting key servers.
- **Modular Expansion Design:** Two open module slots allow you to add extra SFP+ or 40GbE ports, so you can scale uplink bandwidth or aggregation capacity without replacing the base switch.
- **Secure MACsec on All SFP+ Ports:** Ports 116 support MACsec, enabling hardware-based encryption on critical uplinks to protect data in motion across campus or building interconnect links.
- **Flexible Management and Stacking:** Dedicated RJ-45 management, serial console, USB micro-B, and stacking slot enable simple setup, out-of-band control, and non-disruptive growth in stackable deployments.

## Detailed Features



JL075A

[Quote](#) | [Help](#)

Component	Specification
Model	Aruba JL075A 3810M
Fixed Ports	16 × 1/10GbE SFP+ with MACsec
Module Slots	2 × expansion slots, 1 × stacking slot
Power	2 PSU slots, 1 PSU required (ordered separately)



Component	Specification
Dimensions	1U, 4.39 × 44.25 × 43.13 cm (H×W×D)



## High-Performance 10GbE Fabric

Aruba JL075A delivers sixteen fixed 1000/10000 SFP+ ports, allowing dense 10GbE aggregation in a compact 1U form factor. It is ideal for consolidating multiple access switches or high-capacity wireless traffic into a resilient campus core. With flexible support for both 1G and 10G optics, the switch supports gradual migration to higher bandwidth while protecting existing fiber investments.

## Modular Uplink Scalability

The switch offers two open module slots that support additional SFP+ or 40GbE interfaces, enabling a pay-as-you-grow model. Networks can start with the base 16 × SFP+ ports and later add extra 10GbE or 40GbE uplinks as traffic patterns evolve. This modularity allows you to adapt to new applications, cloud connectivity needs, and growing east-west traffic without forklift upgrades.

## Robust Multi-Core Architecture

With a P2020 dual-core processor at 1.2 GHz and dual ARM Cortex-A9 cores at 1 GHz, backed by 6 GB of total DDR3 SDRAM, the JL075A is built to sustain advanced services at wire speed. The 13.5 MB internal packet buffer helps smooth traffic bursts and protects against micro-congestion, which is critical in environments with heavy multimedia, backup, or virtualization workloads running over 10GbE links.

## Enterprise-Class Security Features

Ports 1 through 16 support MACsec, enabling line-rate encryption over fiber uplinks without sacrificing performance. This protects sensitive user and application traffic between wiring closets, data rooms, and buildings. When combined with Aruba's broader security ecosystem, the JL075A becomes a strong element in a secure campus architecture, supporting compliance-driven sectors such as finance, healthcare, and government.

## Flexible Management and OAM

The JL075A provides multiple operations and management interfaces, including an RJ-45 serial console, an RJ-45 out-of-band management port, and a dual-personality RJ-45 or USB micro-B interface. This flexibility simplifies integration into existing NOC practices, supports scripted deployment, and allows secure remote troubleshooting, reducing the need for on-site intervention.

## Resilient Power and Cooling Design

Two power supply slots allow for redundant PSU configurations, improving availability in mission-critical networks. The switch ships with an Aruba 3810 Switch Fan Tray (JL088A) already installed and includes a dedicated fan tray slot, with spare fan trays available separately. This approach ensures continuous cooling and simplifies field replacement, enhancing long-term hardware reliability.

## Optimized for Standard Racks

With a 1U height and dimensions of 4.39 × 44.25 × 43.13 cm, the JL075A is designed for easy installation in EIA-standard 19-inch telco racks or equipment cabinets. Horizontal surface mounting is also supported for wiring closets where rack space is limited. Included mounting hardware streamlines deployment and helps maintain consistent cabling and airflow in diverse physical environments.

## Ready for Modern Campus Architectures

By combining high-density 10GbE SFP+ ports, secure MACsec capabilities, stacking support, and modular expansion, the JL075A aligns with modern wireless-first and cloud-connected campus designs. It can act as a distribution or small core switch in enterprises, schools, and healthcare facilities, delivering predictable performance for Wi-Fi 6/6E, unified communications, and latency-sensitive applications.

# Technical Specifications

## Product Specifications

Feature	Value
Model	JL075A
Brand	Aruba
Type	Aruba 3810M 16SFP+ 2-slot Switch
Included Accessories	1 Aruba 3810 Switch Fan Tray (JL088A)
I/O Ports and Slots	16 SFP+ fixed 1000/10000 SFP+ ports; Duplex: 100BASE-TX: half or full; 1000BASE-T: full only; Ports 1 - 16 support MACSec, 2 open module slots, Supports up to 8 SFP+ ports or 2 40GbE ports with optional module



Feature	Value
Additional Ports and Slots	1 stacking module slot, 1 RJ-45 serial console port, 1 RJ-45 out-of-band management port, 1 dual-personality (RJ-45 or USB micro-B)
Power Supplies	2 power supply slots, 1 minimum power supply required (ordered separately)
Fan Tray	Includes: 1 x JL088A, 1 fan tray slot, 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	P2020 Dual Core @ 1.2 GHz, 4 GB DDR3 SDRAM, 1 GB SD Card, 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. telco rack or equipment cabinet (hardware included); Horizontal surface mounting only

## Product Comparison

Feature	JL075A	OS6450-24L	OS6900-T40-R
Product Type	Aruba 3810M 16SFP+ 2-slot Switch	Fixed Gigabit stackable switch	High-performance 10/40GbE data center switch
Fixed Ports	16 x 1/10GbE SFP+	24 x 10/100/1000Base-T	40 x 10GbE (copper/fiber mix, model dependent)
Modular Expansion	2 x module slots, up to 8 extra SFP+ or 2 x 40GbE	Typically no high-speed uplink modules	Supports 40GbE uplink and expansion options
Stacking Capability	Dedicated stacking module slot	Virtual chassis stacking on select models	Advanced stacking for large fabrics
Layer Role	Campus aggregation/distribution	Access switch for edge connectivity	Aggregation/leaf-spine in data centers
Security Features	MACsec on ports 1–16, secure management	Standard L2 security, 802.1X, ACLs	Enhanced DC security, advanced ACLs, DoS protection
Power and Cooling	2 PSU slots (1 required), field-replaceable fan tray	Internal fixed PSU, optional RPS on some models	Redundant hot-swappable PSUs and fans
Deployment Scenario	Enterprise/education campus core or distribution	SMB/branch access and wiring closets	Large enterprise or cloud data center fabrics

## Accessories



Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- Aruba 3810 Switch Fan Tray (JL088A)</li> <li>- Rack mounting kit</li> <li>- Console cable</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- Hot-pluggable power supply units</li> <li>- 10GbE/40GbE expansion modules</li> <li>- SFP/SFP+ fiber transceivers</li> </ul>



## Support & Warranty



24/7 Online Service



3-Year Premium Warranty



Professional Technical Support



100% Low Price Guarantee

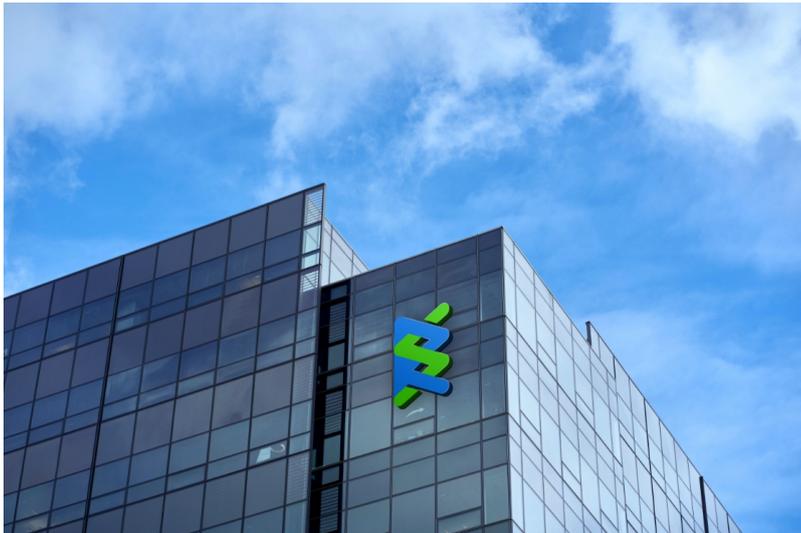


100% Quality Assurance



100% Money Back Guarantee

## About Us



Router-switch.com, headquartered in Hong Kong since 2002, has been a trusted global leader in ICT distribution for 23 years. We provide cutting-edge networking, cybersecurity, data center, and AI solutions to meet evolving business needs. Our wide range includes products from top brands like Cisco, Arista, Aruba, Fortinet, Mellanox, and Huawei, ensuring access to the latest technology and innovations.

**21,500+**  
global customers

**600,000+**  
end-users

**200+**  
countries & regions

**20+**  
years experience

**500+**  
global vendors

**100,000+**  
SKUs available

**700+**  
local sales experts

**50-98%**  
off global list prices

## Contact Us

### Email

**Sales Inquiries:** [sales@router-switch.com](mailto:sales@router-switch.com)

**Expert Technical Support:** [ccie-support@router-switch.com](mailto:ccie-support@router-switch.com)

**Cooperative Partnerships:** [partner@router-switch.com](mailto:partner@router-switch.com)

### Follow Us

**Facebook:** [@Routerswitchdotcom](https://www.facebook.com/Routerswitchdotcom)

**LinkedIn:** [Router-switch.com](https://www.linkedin.com/company/router-switch.com)

**X:** [@routerswitchcom](https://twitter.com/routerswitchcom)

**Instagram:** [@routerswitchdotcom](https://www.instagram.com/routerswitchdotcom)

### Phone

**USA:** +1-626-655-0998

**Hong Kong:** +852-25925389 / +852-25925411



## Global Footprint

Global Warehouses & Service Centers Across Continents.



## Global Branches

### Hong Kong Branch

Rm 605, 6/F, Fa Yuen Comm Bldg, 75-77 Fa Yuen St, Mongkok, Kowloon, Hong Kong, China

### USA Branch

35 E Horizon Ridge Pkwy, Ste 110 #30131, Henderson, NV 89002, USA

### Shenzhen Branch

Jingfeng Building, 1001 Shangbu South Road, Futian District, Shenzhen, China

### UK Branch

Third Floor, 207 Regent Street, London W1B 3HH, UK



## References

[1] Aruba. (n.d.). Aruba 3810M 16SFP+ 2-slot Switch (JL075A) Datasheet. Retrieved from <https://www.hpe.com/psnow/doc/a00135896enw>