

Aruba JL428A

Datasheet



Product Overview

- Aruba JL428A is part of the Aruba 3810M access switch family, delivering high performance layer 3 switching with advanced PoE+ for modern edge networks.
- Ideal for enterprise campus, branch offices, schools, and healthcare sites, it supports dense 48 port access for IP phones, Wi-Fi APs, and security cameras.
- With 304 Gbps switching capacity, 227.37 Mpps forwarding, and 48 Gigabit ports plus 4 SFP+ uplinks, the JL428A ensures wire-speed performance for growing traffic.
- A 680 W PoE+ budget powers a large number of APs and endpoints, while Virtual Switching Framework stacking scales up to 10 units for flexible expansion.
- Simple Web GUI and full CLI management, plus IPv6, VLANs, and jumbo frames, give integrators and IT teams strong control with low operational overhead.
- For distributors, SMB integrators, and end users across Asia, Europe, Africa, and North America, JL428A offers reliable, scalable, and cost-efficient campus edge connectivity.

Product Highlights

- **High-Density Gigabit Access:** 48 Gigabit Ethernet ports provide ample edge connectivity for PCs, IP phones, and wireless access points, helping campuses and branches consolidate user and device access on a single platform.
- **Strong PoE+ Power Budget:** A built-in 680 W PoE+ budget supports a high number of 802.3af/at devices, enabling simplified cabling and power delivery for WiFi, cameras, and collaboration endpoints without extra injectors.
- **10G Fiber Uplinks:** Four integrated SFP+ uplink ports deliver up to 10G connectivity to aggregation or core switches, ensuring smooth backhaul for high-density wireless and multimedia traffic.
- **Enterprise L3 and IPv6 Ready:** Layer 3 switching, VLAN support, jumbo frames, and full IPv6 capability make the JL428A suitable for modern dual-stack networks and long-term infrastructure planning.

Detailed Features



JL428A

[Quote | Help](#)

Component	Specification
Switching Capacity	304 Gbps
Forwarding Throughput	227.37 Mpps
Ports	48 × Gigabit Ethernet, 4 × SFP+ uplinks



High-Performance Switching Fabric

With a switching capacity of 304 Gbps and forwarding performance of 227.37 Mpps, the Aruba JL428A is engineered for traffic-intensive edge environments. It can handle concurrent voice, video, and data flows without becoming a bottleneck, even during peak hours. This makes it suitable for large campus floors, busy branches, and education networks where many endpoints connect simultaneously.

Rich Gigabit Access and Uplink Options

The JL428A offers 48 Gigabit Ethernet access ports, allowing dense user and device aggregation on each switch. In addition, 4 SFP+ uplink slots support 10G fiber connectivity to aggregation or core layers. This combination of high port density and fast uplinks ensures that edge traffic is efficiently forwarded upstream, avoiding congestion as network loads increase.

Robust PoE+ for Edge Devices

Featuring a 680 W PoE+ power budget, the switch can supply power to a large number of 802.3af/at devices directly from the access layer. This is ideal for WiFi access points, IP surveillance cameras, and VoIP phones deployed across offices, schools, and retail sites. Centralized PoE+ delivery simplifies electrical planning, reduces the need for separate power injectors, and helps streamline deployments.

Advanced Layer 3 and VLAN Capabilities

As a full Layer 3 switch, the JL428A supports routing between VLANs, enabling segmentation of user, server, and management networks on the same platform. VLAN and jumbo frame support help optimize traffic isolation and improve efficiency for large file transfers and backup flows. These capabilities provide greater design flexibility for integrators building multi-tenant or multi-department topologies.

Scalable Stacking Architecture

The JL428A supports stacking of up to 10 units, allowing networks to scale out while operating as a single logical device. This stacking capability simplifies configuration, software upgrades, and management, as administrators can treat the stack as one switch. It also increases port density per management point, which is valuable for growing campuses and multi-floor buildings.

Flexible Management Interfaces

Network teams can manage the JL428A using a Web GUI for intuitive configuration or a CLI for script-driven, advanced administration. This dual approach suits both smaller IT teams that prefer graphical tools and experienced engineers who rely on command line access. Support for standard management methods eases integration into existing monitoring and configuration workflows.

Future-Ready IPv6 Support

Built-in IPv6 support ensures that the switch can operate in modern dual-stack environments alongside IPv4. Organizations planning or undergoing IPv6 migration can deploy JL428A at the access layer without concern for protocol limitations. This protects investment and keeps the access network aligned with long-term addressing and regulatory requirements across different regions.

Optimized for Global Campus and Branch Use

With rack-mountable design, internal power supply, and moderate acoustic noise, the JL428A fits well in wiring closets and small equipment rooms in Asia, Europe, Africa, and North America. Its mix of PoE+, Layer 3 routing, stacking, and IPv6 support allows distributors and integrators to standardize on a single model for many customer profiles, reducing stocking complexity while meeting diverse project needs.

Technical Specifications

Product Specifications

Feature	Value
Brand	Aruba
Model	JL428A
Product Name	Aruba 3810M 48G PoE+ 4SFP+ 680W Switch
Switching Capacity	304 Gbps
Throughput	227.37 Mpps
Port Count	48
Port Type	Gigabit Ethernet



Feature	Value
PoE+ Power Budget	680 Watts
Management	Web GUI, CLI
Layer	Layer 3
Form Factor	Rack Mountable
Power Supply	Internal
IPv6 Support	Yes
Jumbo Frames	Yes
VLAN Support	Yes
Stacking Capability	Yes, 10 units
MAC Address Table Size	64,000 entries
Dimensions	44.25 x 33.47 x 4.39 cm
Operating Temperature	0??C to 45??C
Acoustic Noise	42 dB
Flash Memory	4 GB
RAM	2 GB

Product Comparison

Feature	JL428A	C9300L-48PF-4G-E	C9300L-48T-4G-A
Port Count	48 × 1G + 4 × SFP+	48 × 1G + 4 × 1G SFP	48 × 1G + 4 × 1G SFP
PoE Capability	PoE+, 680 W budget	Full PoE+ on all 48 ports	Non-PoE 1G access
Layer Support	Layer 3 switching	Advanced Layer 3 with routing protocols	Advanced Layer 3 with routing protocols
Stacking Capability	Yes, up to 10 units	Yes, via Cisco StackWise	Yes, via Cisco StackWise
IPv6 Support	Yes	Yes, advanced IPv6 features	Yes, advanced IPv6 features
Management	Web GUI, CLI	Cisco IOS XE, Web UI, CLI, SNMP	Cisco IOS XE, Web UI, CLI, SNMP
Ideal Deployment	Campus edge with mixed PoE and data	Enterprise access with high PoE density	Cost-effective data-only access
Uplink Bandwidth	4 × 10G SFP+	4 × 1G SFP uplinks	4 × 1G SFP uplinks



Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none">- Power cord- Rack mounting kit- Quick installation guide
Optional Accessories	<ul style="list-style-type: none">- SFP/SFP+ transceiver modules- Redundant power or UPS unit- Cable management accessories



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 20+ 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

Expert Technical Support: ccie-support@router-switch.com

Cooperative Partnerships: 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] Hewlett Packard Enterprise Aruba. (n.d.). Aruba 3810M 48G PoE+ 4SFP+ 680W Switch (JL428A) datasheet. Retrieved from <https://www.hpe.com/psnow/doc/a00135896enw>