Aruba JH295A

Datasheet

Product Overview

- Aruba HPE OfficeConnect 1950 Series delivers smart web-managed 10G and Gigabit switching, built to anchor advanced small business and branch networks.

- Ideal for high-performance workgroups, the 16-port 10G aggregation model serves as a compact core for offices, startups, and growing SMEs needing fast server and storage access.

- The JH295A provides 12 10GBASE-T and 4 SFP+ 10G ports, combining copper and fiber, with Layer 2 switching, Layer 3 static routing, and dual-stack IPv4/IPv6.

- True stacking lets you manage multiple switches as one, increasing resiliency and simplifying changes, while flexible 10G uplinks support future growth.

- An intuitive web interface, plus rich VLAN, ACL, 802.1X, and STP options, make deployment and ongoing management straightforward for IT teams and integrators.

- For small businesses planning long-term upgrades, OfficeConnect 1950 offers reliable 10G performance, easy expansion, and enterprise-grade features in a cost-effective form factor.

Product Highlights

- **High-Speed 10G Connectivity:** Provides 10-Gigabit performance between access switches, servers, and storage, helping small businesses remove network bottlenecks and keep critical applications responsive as traffic grows.

- **Flexible Port Mix for Copper and Fiber:** Combines 10GBASE-T and SFP+ interfaces so you can use existing Cat6A copper cabling or deploy fiber uplinks, reducing upgrade costs while supporting diverse wiring scenarios.

- **True Stacking for Simple Scaling:** Supports true stacking so multiple switches operate as a single unit, improving redundancy, simplifying configuration, and easing expansion as more users and devices come online.

- **Easy Web Management:** Intuitive web-based management allows quick setup, policy tuning, and monitoring without complex training, while a Limited Lifetime Warranty protects investment over the long term.

Detailed Features

JH295A

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Component	Specification
Switching Capacity	320 Gbps
Forwarding Rate	Up to 238 Mpps
Ports	12 x 10GBASE-T + 4 x 10G SFP+
Layer 3 Capability	Static IPv4/IPv6 routing
Management	Web GUI, CLI, SNMP, RMON

High-Density 10G Aggregation

The Aruba JH295A is designed as a compact 10G aggregation switch with 12 x 10GBASE-T and 4 x 10G SFP+ ports. This mix allows flexible topologies where copper connects servers or access switches over Cat6A cabling, while SFP+ uplinks provide long-distance fiber connectivity to core or distribution layers. Such density in a 1U form factor is ideal for small data rooms or branch offices.

Strong Switching Performance

With a 320 Gbps switching capacity and up to 238 Mpps throughput, the JH295A can handle sustained high traffic loads without blocking. This performance headroom ensures smooth handling of virtualization, IP storage, and concurrent application flows. Even during peak usage, the switch delivers wire-speed forwarding on all 10G ports, helping avoid congestion and latency in demanding environments.

Layer 3 Static Routing Support

The switch supports static IPv4 and IPv6 routing, enabling it to act as a simple Layer 3 gateway between VLANs or segments. This reduces the need for a separate router in small networks, simplifies topology, and cuts latency between key departments or server farms. Dual-stack routing also prepares networks for a gradual transition from IPv4 to IPv6 without disruptive redesign.

Advanced Layer 2 Feature Set

Comprehensive Layer 2 capabilities include VLAN segmentation, IGMP snooping for multicast control, and auto MDI/MDI-X for easy cabling. Flow control and full duplex support optimize link utilization, while Weighted Round Robin queuing helps prioritize critical traffic. These features allow integrators to fine-tune performance and stability for voice, video, and data services on converged networks.

Versatile Management and Monitoring

The JH295A offers web-based management, CLI, SNMP, and RMON, supporting different operation styles from simple GUI setup to script-driven automation. Syslog and port mirroring make it easier to troubleshoot issues and integrate with existing NMS platforms. This versatility benefits both small IT teams and managed service providers who require remote visibility.

Robust Security and Access Control

Security is reinforced through RADIUS and TACACS+ authentication, enabling centralized user and admin control. SSL encryption secures management sessions, while VLANs and access policies segment traffic. Combined, these functions help protect critical resources in small and midsize networks from unauthorized access without adding standalone security appliances.

Hardware Resources for Growth

Equipped with 1 GB RAM and 128 MB flash, the switch has sufficient system resources to maintain stable operation as configurations grow more complex. A 32K MAC address table supports larger device populations, and jumbo frame support up to 10 KB enhances efficiency for data center and storage traffic. These attributes make the platform suitable for long-term deployment.

Efficient Power and Environmental Design

An internal power supply simplifies installation and reduces clutter compared to external adapters. Maximum operational power consumption of 110 W is efficient for a 16-port 10G device, helping control energy costs. Support for 0°C to 45°C operating temperature and 15% to 95% non-condensing humidity ensures reliable operation across varied office and equipment room conditions.

Technical Specifications

Product Specifications

Feature	Value
Brand	Aruba
Product Name	HPE OfficeConnect 1950 12XGT 4SFP+ Switch
Product Model	JH295A
Product Type	Switch - 16 ports - L3 - Managed
Ports	12 x 10GBase-T + 4 x 10 Gigabit SFP+
Performance - Switching capacity	Switching capacity: 320 Gbps
Performance - Throughput	Throughput: up to 238 Mpps
MAC Address Table Size	32K entries

Feature	Value
Jumbo Frame Support	Yes, up to 10KB
Routing Protocol	Static IPv4 routing, Static IPv6 routing
Management	Web-based management, CLI, SNMP, RMON
Features	Flow control, full duplex capability, Layer 3 switching, VLAN support, auto-uplink (auto MDI/MDI-X), IGMP snooping, Syslog support, port mirroring, Weighted Round Robin (WRR) queuing, IPv6 support
RAM	1 GB
Flash Memory	128 MB
Power Device	Internal power supply
Power Consumption Operational	Max 110 W
Authentication Method	RADIUS, TACACS+
Encryption Algorithm	SSL
Compliant Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1ab (LLDP), IEEE 802.1s, IEEE 802.1w, IEEE 802.1q, IEEE 802.3ae, IEEE 802.3an
Dimensions (WxDxH)	17.32 in x 6.3 in x 1.73 in
Operating Temperature	0°C to 45°C
Operating Humidity Range	15% to 95% (non-condensing)
Status Indicators	Power, link/activity, fan, temperature

Product Comparison

Feature	JH295A	JL479A	R8R49A
Product Type	10G aggregation switch, L3 managed	Access/aggregation switch, L3 managed	Campus/branch switch, L3 managed
Fixed Ports	12 x 10GBASE-T + 4 x 10G SFP+	Model-specific mix of GE and 10G SFP+ ports	Model-specific mix of GE/10G ports
Switching Capacity	320 Gbps	Higher or comparable, depending on model	Higher, designed for larger campus networks
Routing Support	Static IPv4/IPv6 routing	Static and possibly dynamic routing on some models	Richer Layer 3 and advanced enterprise features
PoE Capability	Not PoE	Selected JL479A variants support PoE/PoE+	R8R49A family includes PoE and high PoE power models

Feature	JH295A	JL479A	R8R49A
Stacking	True stacking for simplified management	Supports stacking or VSF on supported SKUs	Advanced stacking/VSF for scalable campus designs
Management	Web, CLI, SNMP, RMON	Enterprise CLI, Web, SNMP, advanced monitoring	Enhanced management, automation, and analytics options
Ideal Scenario	10G aggregation for small business or branch core	Versatile access/ aggregation in SME and branch	Scalable campus or enterprise edge with richer services

Accessories

Category	Accessories
Included Accessories	- AC power cord - Rack mounting kit (brackets and screws) - Quick installation guide
Optional Accessories	- 10G SFP+ transceiver modules - Passive or active 10G DAC cables - External cable management accessories

Support & Warranty

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References

[1] Aruba. (n.d.). HPE OfficeConnect 1950 12XGT 4SFP+ Switch (JH295A) Specifications. Retrieved from https://www.hpe.com/psnow/doc/c04545486.pdf