

Aruba JL384A

Datasheet

Product Overview

- Aruba HPE OfficeConnect 1920S switches are smart-managed Gigabit models built to give small businesses reliable, easy-to-control connectivity.
- Ideal for small offices, branch sites, and growing SMEs that need simple LAN expansion without the cost or complexity of enterprise chassis gear.
- This JL384A model delivers 24x 10/100/1000 ports, 2x SFP fiber uplinks, non-blocking performance, and PoE+ on 12 ports to power edge devices.
- Advanced features such as Layer 3 static routing, IPv4/IPv6 host mode, ACLs, and Spanning Tree help segment traffic and keep access networks stable.
- Fanless options in the series, flexible wall, under-desk, or desktop installation, plus intuitive Web GUI make deployment quiet and straightforward.
- In daily use, JL384A helps consolidate switching and PoE, cut cabling costs, and support future growth for IP phones, APs, and surveillance networks.

Product Highlights

- **Intuitive Web Management:** Simple browser-based GUI with HTTP/HTTPS access lets non-specialist staff deploy, monitor, and adjust switch settings quickly.
- **Layer 3 Static Routing:** Supports up to 32 static routes to segment networks, offload basic routing from the router, and simplify small multi-VLAN designs.
- **Granular Access Control:** ACLs enable per-port and per-host policy, improving security by limiting traffic types and isolating sensitive resources.
- **Robust Spanning Tree Support:** STP, RSTP, and MSTP protect against loops, while fanless nonPoE models keep office deployments quiet and unobtrusive.

Detailed Features



JL384A

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Component	Specification
Model	Aruba HPE OfficeConnect 1920S JL384A
Ports	(24) 10/100/1000 RJ-45 + (2) 100/1000 SFP
PoE Budget	185W PoE+ on 12 ports
Switching Capacity	52 Gbps, up to 38.6 Mpps
Management	Web GUI, SNMP, 802.3 Ethernet MIB



Easy Web-Based Management

The JL384A offers an intuitive Web GUI for daily operations, allowing administrators or nontechnical staff to configure VLANs, QoS, and security policies without complex CLI. Support for both HTTP and HTTPS ensures secure access, while clear menus shorten learning time and reduce setup and troubleshooting costs in small office environments.

Comprehensive SNMP and RMON Support

SNMPv1, v2c, and v3 allow the switch to integrate smoothly with standard NMS platforms for discovery, monitoring, and alerting. RMON support extends visibility with detailed statistics, history, alarms, and events pulled over SNMP, enabling IT teams or MSPs to track performance trends, detect anomalies early, and maintain SLA-quality service.

Enhanced Troubleshooting and Visibility

Complete session logging records management activity and key events, helping pinpoint configuration errors and security incidents. Port mirroring lets administrators copy traffic from a port or VLAN to an analyzer for deep inspection, making it easier to diagnose application issues, VoIP quality problems, or suspected attacks without disrupting production traffic.

Resilient Software and Time Management

Dual flash images store primary and secondary OS files, allowing safe upgrades and rapid rollback if needed, which reduces downtime risk. Network Time Protocol and manual time configuration keep logs and events synchronized across devices, ensuring accurate correlation of incidents and supporting compliance or audit requirements.

Flexible IP Addressing and Zero-Touch Start

Default DHCP client mode lets the JL384A obtain an address automatically for quick plug-and-play deployment; if no DHCP server exists, it uses a known static IP (192.168.1.1) for direct access. This behavior simplifies first-time installation for small sites and remote branches, cutting the need for on-site expert intervention.

Advanced QoS and Traffic Control

The switch supports traffic prioritization using DSCP and 802.1p, mapping flows into six hardware queues for better handling of latency-sensitive services like voice and video. Advanced classifier-based QoS uses Layer 24 fields, combined with CoS tagging, rate limiting, and congestion management via SP or WRR scheduling, to ensure fair bandwidth usage and predictable application performance.

Energy-Efficient PoE with Intelligent Policies

IEEE 802.3at PoE+ delivers up to 30 W per port, supporting modern APs, IP phones, and cameras while avoiding extra power outlets. Auto-PoE with LLDP simplifies power assignment, while PoE scheduling, allocation by class or LLDP-MED, and user-defined budgets help reduce energy consumption, align power delivery with business hours, and extend UPS runtime in power events.

Reliable Connectivity and Loop Protection

IEEE 802.3X flow control helps prevent packet loss at congestion points by signaling backpressure through the network. SFP uplink ports enable longer-reach fiber connections without sacrificing copper access density. Loop protection automatically disables offending ports if a loop is detected, avoiding broadcast storms, and Auto MDI/MDI-X removes the need to distinguish between straight-through and crossover cables on Gigabit interfaces.

Technical Specifications

Product Specifications

Feature	Value
PoE Capability	185W PoE+
Product Dimensions (metric)	44.25 x 24.61 x 4.39 cm
Power Consumption Description	207.9W (maximum), 19W (idle)
Product Differentiator (long)	Advanced smart managed 24-port Gigabit PoE+ switch from our most popular switch series for small businesses. This model has 24x 10/100/1000 ports as well as 2 SFP ports. 12 of the ports support PoE+/PoE with a Power over Ethernet budget of 185 Watts.



Feature	Value
External I/O Ports	(12) RJ-45 auto-negotiating 10/100/1000 PoE+ ports (12) RJ-45 auto-negotiating 10/100/1000 ports (2) SFP 100/1000 Mbps ports
Routing/switching Capacity	52 Gbps
Management Features	Web browser SNMP IEEE 802.3 Ethernet mib
Throughput	up to 38.6 Mpps
Input Voltage	207.9W (maximum), 19W (idle)
Product Dimensions (imperial)	17.42 x 9.69 x 1.73 in

Product Comparison

Feature	JL384A	C1000-24P-4G-L	OS6450-P24L
Switching Capacity	52 Gbps	56 Gbps	88 Gbps
Forwarding Performance	up to 38.6 Mpps	41.7 Mpps	65.5 Mpps (typical series value)
Fixed Ports	(24) 10/100/1000 RJ-45 + (2) 100/1000 SFP	(24) 10/100/1000 RJ-45 + (4) 1G SFP	(24) 10/100/1000 RJ-45 + (2) 1G SFP
PoE Budget	185W PoE+ on 12 ports	195W PoE+ on 24 ports	Up to 180W PoE on 24 ports (model dependent)
Management	Web GUI, SNMP, 802.3 Ethernet MIB	Web GUI, CLI, SNMP, Cisco DNA Center ready	Web GUI, CLI, SNMP, OmniVista support
Layer 3 Features	Static routing (32 routes), IPv4/IPv6 host	Static routing, limited dynamic features	Static routing, RIP, more advanced L3 on higher models
Deployment Focus	Small business smart- managed access	SMB/branch fully managed enterprise-class access	Campus/SMB access with advanced Alcatel-Lucent features
Stacking Capability	Not stackable	No hardware stacking (virtual/management only)	Virtual chassis stacking supported on series peers

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Power cord - Rack-mount kit (brackets and screws) - Quick installation guide



Category	Accessories
Optional Accessories	<ul style="list-style-type: none">- 1000BASE-SX or 1000BASE-LX SFP transceivers- External RPS/UPS for power backup- Pre-terminated Cat6/Cat6a patch cables



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References

[1] Hewlett Packard Enterprise. (2017). HPE OfficeConnect 1920S Switch Series JL384A Specification. Retrieved from <https://www.hpe.com/psnow/doc/a00001630enw>