Aruba JL382A

Datasheet

Product Overview

- The Aruba HPE OfficeConnect 1920S Series delivers smart managed Gigabit switching for small businesses needing reliable, simple network control.

- Ideal for small offices, branch sites, and growing SMEs that require high speed access for users, IP phones, and wireless access points.

- This 48-port model offers non-blocking Gigabit performance, four SFP uplinks, and fanless design on non PoE units for quiet, efficient operation.

- Advanced features include Layer 2 VLANs, link aggregation, Layer 3 static routing, IPv4/IPv6 host support, ACLs, and enterprise Spanning Tree.

- An intuitive web interface and flexible mounting options—desktop, wall, or under-table—simplify deployment and ongoing administration.

- For small businesses, JL382A combines value, performance, and room to grow, supporting modern applications while keeping daily management straightforward.

Product Highlights

- **Intuitive Web Management:** Easy-to-use browser-based GUI lets small business admins deploy, configure, and monitor the switch quickly without deep CLI skills.

- **Layer 3 Static Routing:** Built-in static routing with support for 32 routes enables simple network segmentation, traffic isolation, and expansion without extra routers.

- **Granular Security Control:** Access control lists (ACLs) provide fine-grained traffic filtering to protect critical resources and enforce user, subnet, and application policies.

- **Stable and Quiet Operation:** Support for STP, RSTP, and MSTP ensures loop-free topologies, while fanless nonPoE models deliver silent operation in office spaces.

Detailed Features

JL382A

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Component	Specification
Form Factor	48 × 10/100/1000 RJ-45 + 4 × 100/1000 SFP fixed ports
Switching Capacity	104 Gbps non-blocking
Forwarding Rate	Up to 77.3 Mpps
Management	Web GUI, SNMP, IEEE 802.3 Ethernet MIB
Power Consumption	32.2W max, 23.3W idle

Intuitive Web-Based Management

The JL382A provides a simple, browser-based management interface that allows non-specialist staff to deploy and maintain the switch. Through HTTP and HTTPS access, administrators can configure VLANs, QoS, and security policies without complex command-line operations. This reduces training requirements and speeds up day-to-day changes in small office and branch environments.

Comprehensive SNMP and Monitoring

Support for SNMPv1, v2c, and v3 enables seamless integration with standard network management platforms. The switch can be discovered, monitored, and configured centrally, while complete session logging and RMON offer detailed statistics, history, alarms, and events. These capabilities help IT teams quickly locate faults, analyze performance trends, and maintain service levels.

Efficient Troubleshooting Tools

Port mirroring allows traffic on a specific port or VLAN to be copied to a monitoring port, making it easy to use analyzers for deep packet inspection. Combined with detailed session logs and clear web-based status views, engineers can isolate issues such as application slowdown, misconfiguration, or security incidents with minimal disruption to user traffic.

Resilient Software and Time Control

Dual flash images provide separate primary and secondary operating system files, so upgrades can be tested and rolled back if needed, reducing downtime risk. Network Time Protocol and manual time configuration keep logs and scheduled tasks synchronized across devices, which is critical for accurate event correlation, compliance reporting, and coordinated security responses.

Zero-Touch IP Addressing

Default DHCP client mode allows the JL382A to obtain an IP address automatically when connected to an existing network, enabling near plug-and-play deployment. If no DHCP server is present, it safely falls back to a static address of 192.168.1.1, ensuring that administrators can always reach the management interface for initial configuration.

Flexible Configuration Management

Support for FTP and TFTP provides multiple options for backing up and restoring configurations or updating firmware. FTP enables reliable bidirectional transfer over TCP, while TFTP offers a lightweight alternative over UDP. This flexibility fits into diverse operational workflows, from scripted upgrades to simple manual backups in smaller IT environments.

Advanced QoS and Traffic Control

The switch offers rich QoS features including DSCP and 802.1p classification, advanced multi-field classifiers across Layers 24, and up to six hardware queues per port. Rate limiting, Class of Service tagging, and configurable congestion management using strict priority or WRR ensure that voice, video, and key business applications receive guaranteed bandwidth even during peak loads.

Robust Connectivity and Loop Protection

As an IPv6 host, JL382A can be deployed at the edge of modern dual-stack networks while supporting IEEE 802.3X flow control to prevent packet loss under congestion. SFP uplink ports extend reach over fiber for inter-floor or inter-building links. Loop protection and auto MDI/MDI-X guard against mis-wired connections and broadcast storms, enhancing overall network stability and uptime.

Technical Specifications

Product Specifications

Feature	Value
Product Dimensions (metric)	44.25 x 24.61 x 4.39 cm
Power Consumption Description	32.2W (maximum), 23.3W (idle)
Product Differentiator (long)	Advanced smart managed 48-port Gigabit switch from our most popular switch series for small businesses. This model has 48x 10/100/1000 ports as well as 4 SFP ports.
External I/O Ports	(48) RJ-45 auto-negotiating 10/100/1000 ports; (4) SFP 100/1000 Mbps ports
Routing/switching Capacity	104 Gbps
Management Features	Web browser SNMP IEEE 802.3 Ethernet mib
Throughput	up to 77.3 Mpps

Feature	Value
Input Voltage	32.2W (maximum), 23.3W (idle)
Product Dimensions (imperial)	17.42 x 9.69 x 1.73 in

Product Comparison

Feature	JL382A	OS6450-P48X	C9300-48UN-E
Fixed Ports	48 × 10/100/1000 RJ-45 + 4 × 100/1000 SFP	48 × 10/100/1000 RJ-45 + SFP uplinks (model dependent)	48 × mGig (100M/1/2.5/5/10G) + uplink module slots
Switching Capacity	104 Gbps	Up to 176 Gbps (series dependent)	Up to 480 Gbps switching capacity
Forwarding Rate	Up to 77.3 Mpps	Up to 130 Mpps (model dependent)	Up to 154.76 Mpps
PoE Capability	Non-PoE model (no PoE power)	PoE/PoE+ support on P models	Full mGig PoE+/UPOE on access ports
Management Features	Web GUI, SNMP, basic smart managed	Full L2+ management, CLI, Web, SNMP	Enterprise IOS-XE, CLI, Web UI, SNMP, NetFlow
Layer 3 Support	Static routing (32 routes)	Static routing and optional dynamic routing (model)	Advanced Layer 3 with dynamic routing protocols
Target Scenario	Small business smart-managed edge	Campus/branch access with PoE options	Enterprise access/ aggregation with high-density mGig

Accessories

Category	Accessories
Included Accessories	- Power cord - Rack mounting kit - Quick installation guide
Optional Accessories	- SFP 100/1000 Mbps transceivers - External console cable - Cable management brackets

Support & Warranty

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References

[1] Hewlett Packard Enterprise. (2017). HPE OfficeConnect 1920S Switch Series JL382A Specification. Retrieved from https://www.hpe.com/psnow/doc/a00001630enw