



Aruba JL169A

Datasheet



Product Overview

- The Aruba HPE OfficeConnect 1850 Series is a family of smart-managed Gigabit and 10 Gigabit Layer 2 switches for small businesses.
- Designed for growing offices, retail sites, and branch locations that need reliable high-speed connectivity without complex management.
- JL169A delivers 10GBASE-T performance with flexible copper and SFP+ uplinks, low latency forwarding, and a compact 1U footprint for space-constrained racks.
- Key features include intuitive Web GUI management, VLAN support, Rapid Spanning Tree, IGMP snooping, link aggregation, and DSCP-based QoS.
- Flexible wall, under-desk, or desktop mounting plus energy-efficient Ethernet, idle-port power down, and variable-speed fans reduce noise and power.
- Ideal for small organizations that want simple deployment, 10G aggregation, and enterprise-class reliability without the cost and complexity of full L3.

Product Highlights

- 10GBASE-T Performance on All Ports:** All RJ-45 ports support 1/10GBASE-T, delivering high-speed server, NAS, and switch interconnects over familiar copper cabling for easy upgrades.
- Compact Aggregation Switch Option:** The JL169A 8-port 10GBASE-T model with 2 dual-personality SFP+ ports serves as a flexible 10G aggregation or small core switch in SMB networks.
- Intuitive Web-Based Management:** A simple browser GUI makes setup, VLANs, and QoS configuration straightforward, allowing non-specialists to manage the network confidently.
- Business-Ready Reliability:** With smart-managed features, energy-saving design, and limited lifetime warranty, the 1850 Series protects your investment over the long term.

Detailed Features



JL169A

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Component	Specification
Ports	6 × 1/10GBASE-T RJ-45, 2 × dual-personality 1/10GBASE-T or SFP+ slots
Switching Capacity	160 Gbps
Forwarding Performance	Up to 119 Mpps
Latency	< 6.8 µs (64-byte packets, 100 Mb/10 Gbps); < 2.9 µs (64-byte packets, 1000 Mb)
Dimensions & Weight	9.96 × 10.26 × 1.73 in; 3.84 lb (1U)



Simple Web Management

JL169A uses an intuitive Web-based GUI for day-to-day management, so small IT teams and even nontechnical staff can deploy and adjust the switch quickly. It supports both HTTP and HTTPS for secure access, and offers basic operations such as VLAN setup, port configuration, and monitoring without requiring CLI skills or external tools.

Rich Monitoring and Maintenance Tools

Built-in SNMPv1/v2c enables centralized monitoring from standard NMS platforms, while port mirroring lets administrators send live traffic from any port to an analyzer for troubleshooting. Dual flash images provide primary and secondary OS files, allowing safe firmware upgrades and fast rollback to a known good version if needed.

Flexible Time and IP Configuration

Network Time Protocol (NTP) keeps the switch clock aligned with other devices for accurate logs and scheduled tasks, with manual time configuration available when NTP is not present. Default DHCP client mode lets the switch obtain an IP address automatically for plug-and-play deployment, and it can fall back to a fixed address for recovery.

Efficient QoS for Voice and Video

Advanced QoS supports traffic prioritization based on DSCP and IEEE 802.1p, mapping flows into eight hardware queues for consistent performance. IEEE 802.1p/Q provides per-VLAN and per-priority handling, ensuring that delay-sensitive services like IP telephony, video conferencing, and surveillance streams remain smooth even under high load.

Comprehensive Connectivity and PoE Options

Auto-MDI/MDIX on all ports eliminates crossover cable concerns, while IEEE 802.3x flow control and loop protection help maintain stable traffic and prevent broadcast storms. Series PoE+ models support up to 30W per port for IP phones, APs, and cameras, with Auto PoE power configuration and scheduling to match power delivery to real usage patterns and working hours.

Energy-Saving Design

Energy Efficient Ethernet (EEE) reduces power draw during low traffic periods, and auto port shut-down disables inactive interfaces until link is detected again. Variable-speed fans run only as fast as required to maintain temperature, cutting both noise and energy consumption. The switch also reports cumulative power savings, helping organizations track efficiency improvements.

Integrated Security Protections

SSL encryption secures Web management sessions, protecting credentials and configuration data from interception. Automatic denial-of-service protection monitors multiple attack types and blocks malicious traffic to preserve network availability, while management passwords restrict access so only authorized users can change critical settings.

Layer 2 Services and High Availability

Support for up to 64 VLANs with 802.1Q tagging allows segmentation of users, servers, and guests on the same physical infrastructure. Jumbo frame support up to 9220 bytes improves efficiency for large data transfers. STP/RSTP provide link redundancy without loops, and LACP-based link aggregation creates high-bandwidth trunks to upstream switches, minimizing bottlenecks and enhancing resilience.

Technical Specifications

Product Specifications

Feature	Value
Product Name	HPE OfficeConnect 1850 6XGT and 2XGT/SPF+ Switch (JL169A)
I/O ports and slots	6 RJ-45 1/10GBASE-T ports
Dual-Personality Ports	2 dual-personality ports; each port can be used as either an RJ-45 1/10GBASE-T port or an SFP+ fixed 1000/10000 slot
Physical characteristics	Dimensions Weight 9.96(w) x 10.26(d) x 1.73(h) in (25.3 x 26.07 x 4.4 cm) (1U height) 3.84 lb (1.74 kg)
Memory and processor	BCM53412 embedded ARM Cortex-A9 @ 600 MHz, 128 MB DDR3 SDRAM; Packet buffer size: 2 MB



Feature	Value
Performance	100 Mb Latency 1000 Mb Latency 10 Gbps Latency Throughput Switching capacity Reliability MTBF (years) < 6.8 μ s (64-byte packets) < 2.9 μ s (64-byte packets) < 6.8 μ s (64-byte packets) up to 119 Mpps 160 Gbps MAC address table size 16000 entries 64.5
Environment	Operating temperature 32°F to 104°F (0°C to 40°C) Operating relative 15% to 95% @ 104°F (40°C), noncondensing humidity Nonoperating/Storage temperature Nonoperating/Storage relative humidity Altitude Acoustic Airflow direction -40°F to 158°F (-40°C to 70°C) 15% to 95% @ 149°F (65°C), noncondensing up to 9,842 ft (3 km) Power: 45 dB Side-to-side
Electrical characteristics	Frequency Voltage Current Maximum power rating 42.8 W Idle power 19.4 W Notes Safety 50/60 Hz 100 - 127 / 200 - 240 VAC, rated .9/.5 A Idle power is the actual power consumption of the device with no ports connected. Maximum power rating and maximum heat dissipation are the worst-case theoretical maximum numbers provided for planning the infrastructure with fully loaded PoE (if equipped), 100% traffic, all ports plugged in, and all modules populated. UL 60950-1; IEC 60950-1; EN 60950-1; CAN/CSA-C22.2 No. 60950-1; EN 60825-1 Emissions VCCI Class A; CNS 13438; ICES-003 Issue5 Class A; FCC CFR 47 Part 15, Class A ; EN 55032: 2015/CISPR-32

Product Comparison

Feature	JL169A	OS6450-10M	OS6350-24
Fixed Ports	6 × 1/10GBASE-T + 2 × dual-personality 1/10GBASE-T or SFP+	8 × 10/100/1000Base-T + 2 × 1G SFP	24 × 10/100Base-T + 2 × 1G SFP
Switching Capacity	160 Gbps	56 Gbps (typical for compact access)	Up to 88 Gbps (typical for 24-port Fast Ethernet)
Forwarding Rate	Up to 119 Mpps	41.7 Mpps (class-based estimate)	65 Mpps (class-based estimate)
PoE Support	No PoE on JL169A model	Available PoE variants in series	Available PoE variants in series
Management	Smart Web-managed Layer 2	Advanced Web/CLI, enterprise features	Advanced Web/CLI, enterprise features
Ideal Role	10G aggregation / small core for SMB	Gigabit access for small branches	Fast Ethernet access for legacy or cost-sensitive sites
Form Factor	1U, compact depth desktop/rack	1U fixed, fanless on some models	1U fixed, fan or fanless depending on model



Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none">- AC power cord- Rack-mounting kit (ears and screws)- Quick installation guide
Optional Accessories	<ul style="list-style-type: none">- SFP+ 10G optical transceivers- SFP+ direct attach cables (DAC)- Cable management brackets



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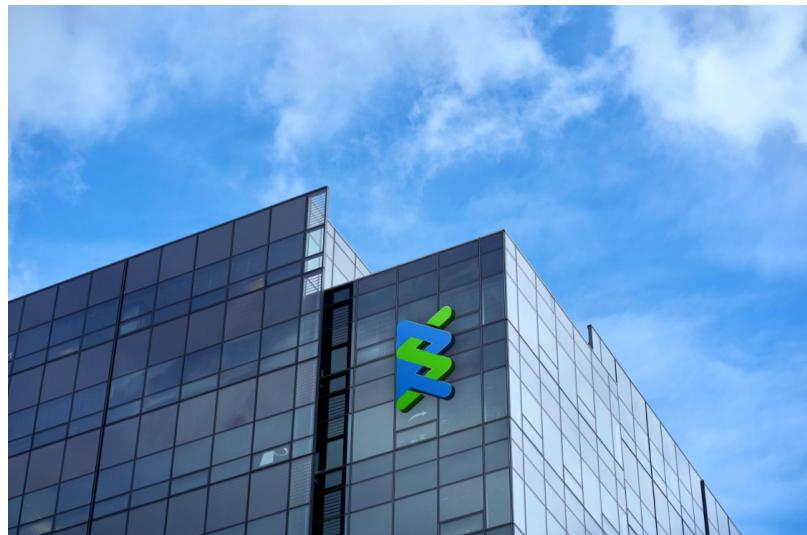


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References

[1] Hewlett Packard Enterprise. (2016). HPE OfficeConnect 1850 6XGT and 2XGT/SFP+ Switch (JL169A) Datasheet. Retrieved from <https://www.hpe.com/psnow/doc/c05279017>