Aruba J9822A

Datasheet

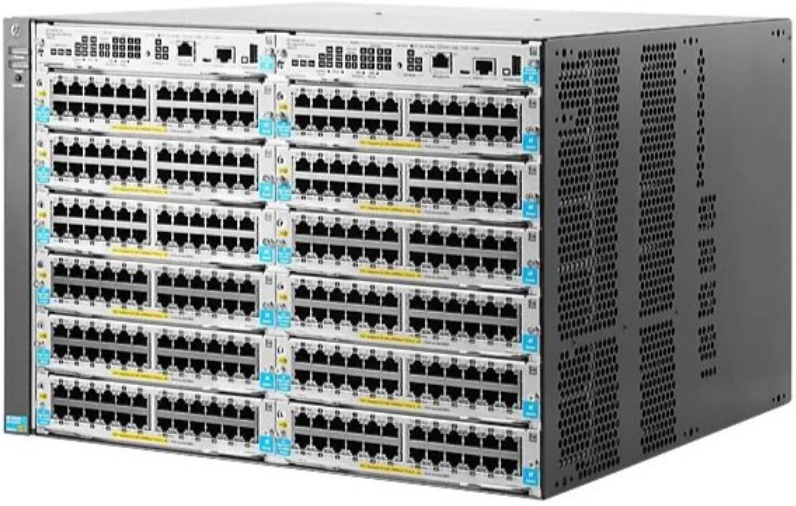
Product Overview

- The HPE Aruba Networking 5400R zl2 Switch Series is a modular, enterprise-class platform built for high-resiliency campus and branch networks.
- Ideal for mobile-first enterprises, education, healthcare, and large campus cores, it aggregates access switches and APs into a unified wired and wireless fabric.
- It delivers up to 2 Tbps switching fabric with very low latency, supports line-rate 40GbE uplinks, and scales to 288 PoE+ ports in a single chassis.
- Key differentiators include VSF stacking for hitless failover, Dynamic Segmentation, and advanced Layer 3 with OSPF, IPv6, and IPv4 BGP built in.
- Centralized management through HPE Aruba Networking Central or legacy management software simplifies deployment, monitoring, and lifecycle operations.
- This makes 5400R zl2 an excellent choice for smart digital workplaces that need secure, scalable aggregation for users, IoT, and high-density wireless.

Product Highlights

- **High-Performance Modular Core:** Layer 3 modular switch series with VSF stacking, low latency fabric, and resilient design for demanding campus and aggregation roles.
- **Scalable Multi-Gigabit and 40GbE:** Supports HPE Smart Rate IEEE 802.3bz multi-gigabit ports and line-rate 40GbE uplinks to handle high-density wireless and backbone traffic.
- **Robust Power and PoE+ Capacity:** Redundant management, hot-swappable power supplies, and up to 288 PoE+ ports to power APs, IP cameras, and IoT endpoints at the edge.
- **SDN and Centralized Security Ready:** REST APIs and OpenFlow enable SDN, while Aruba NAC, Management Software, and Central provide unified security and network control.

Detailed Features



J9822A

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Component	Specification
Chassis Type	HPE 5412R zl2, 12 open module slots, 7U height
Switching Capacity	1920 Gbps switching / 2030 Gbps fabric, up to 1142.8 Mpps

Programmable SDN-Ready Design

The 5400R zl2 supports multiple programmatic interfaces, including REST APIs and OpenFlow 1.0/1.3, enabling deep integration with SDN controllers and automation platforms. Network teams can automate provisioning, monitoring, and troubleshooting workflows, reduce manual configuration errors, and roll out consistent policies across large campus deployments with minimal downtime.

Unified Wired and Wireless Policy Control

With Aruba NAC, the switch enforces shared wired and wireless policies from a single framework. Auto-configuration detects Aruba access points and applies VLAN, CoS, PoE maximum power, and PoE priority profiles automatically. This reduces deployment time and ensures that edge ports are always configured correctly for APs and user devices.

Role-Based Access and Dynamic Segmentation

User roles define granular switch-based policies for security, authentication, and QoS that can be stored locally or downloaded from Aruba NAC. Dynamic Segmentation then applies user, device, and application-aware policies across wired and wireless, using secure tunnels per port or per user role back to an Aruba controller, simplifying network design while improving protection.

Enhanced Visibility for All Client Types

The platform supports automated device profiling and role-based access control, combined with Layer 7 firewall awareness. This gives IT clear visibility into user and application traffic, even for devices with static IPs through static IP visibility in NAC. The result is better performance tuning, more accurate accounting, and tighter security for both managed and unmanaged endpoints.

Advanced QoS and Traffic Engineering

The switch offers classifier-based QoS using Layer 24 fields, allowing precise identification of critical flows. Traffic can be mapped into eight priority levels and queues, with per-port or per-VLAN policies. Bandwidth shaping features include port-based rate limiting, ACL-based rate limiting, and per-queue egress controls, ensuring voice, video, and key applications get predictable performance.

Operationally Simple Management

Aruba Central cloud management delivers secure, subscription-based control, while on-premises legacy management software is also supported. Zero Touch Provisioning with Aruba Activate or DHCP options automates initial deployment, and a built-in REST API allows scripted configuration changes. Common CLI across ProVision switches shortens learning curves and standardizes operations.

Comprehensive Monitoring and Troubleshooting

The 5400R zl2 supports IP SLA for voice quality tests, remote intelligent mirroring across the Aruba switch family, and monitoring via RMON, XRMON, and sFlow. LLDP and UDLD improve link visibility and protection, while command authorization via RADIUS creates an auditable trail of admin activity. Dual flash images and multiple configuration files simplify upgrades and rollback.

Flexible and Efficient Connectivity

Energy Efficient Ethernet (IEEE 802.3az) reduces power draw during low link utilization on supported modules, lowering operating costs. IEEE 802.3at PoE+ delivers up to 30 W per port for IP phones, WLAN APs, and security cameras, removing the need for separate power circuits. Friendly port names and extensive L2 features help engineers maintain clear, well-documented access and aggregation designs.

Technical Specifications

Product Specifications

Feature	Value
Product Name	J9822A Specification
Type	HPE 5412R zl2 Switch
Included accessories	1 HPE 5400R zl2 Management Module (J9827A)
Included accessories	1 HPE 5412R zl2 Switch Fan Tray (J9832A)
I/O ports and slots	12 open module slots
I/O ports and slots	Supports a maximum of 288 autosensing 10/100/1000 ports or 288 SFP ports or
I/O ports and slots	96 SFP+ ports or 96 HPE Smart Rate

Feature	Value
I/O ports and slots	Multi-Gigabit or 24 40GbE ports, or a combination
Power supplies	4 power supply slots
Power supplies	2 minimum power supplies required (ordered separately)
Fan Tray	Includes: 1 x J9832A
Fan Tray	1 fan tray slot
Dimensions (W x D x H)	17.5(w) x 17.75(d) x 12.1(h) in. (44.45 x 45.09 x 30.73 cm) (7U height)
Weight	38.1 lb (17.28 kg)
Memory and processor	v3 Gigabit Module
Memory and processor	Dual ARM® Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB internal
Memory and processor	v2 Gigabit Module
Memory and processor	ARM 11 @ 450 MHz; Packet buffer size: 18 MB internal
Memory and processor	v3 10G Module
Memory and processor	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB internal
Memory and processor	v2 10G Module
Memory and processor	ARM 11 @ 550 MHz; Packet buffer size: 18 MB internal
Memory and processor	v3 40G Module
Memory and processor	Dual ARM Coretex A9 @ 1 GHz; Packet buffer size: 13.5 MB internal
Memory and processor	Management Module
Memory and processor	Freescale P2020 dual core @ 1.2 GHz, 16 MB flash, 1 GB SD Card, 4 GB DDR3 SODIMM
Mounting and enclosure	Mounts in an EIA standard 19-inch telco rack or equipment cabinet (hardware included); Horizontal
Mounting and enclosure	surface mounting only
Performance (IPv6 Ready Certified)	1000 Mb Latency
Performance (IPv6 Ready Certified)	< 2.8 µs (FIFO 64-byte packets)
Performance (IPv6 Ready Certified)	10 Gbps Latency
Performance (IPv6 Ready Certified)	< 1.8 µs (FIFO 64-byte packets)
Performance (IPv6 Ready Certified)	40 Gbps Latency
Performance (IPv6 Ready Certified)	< 1.5 µs (FIFO 64-byte packets)

Feature	Value
Performance (IPv6 Ready Certified)	Throughput
Performance (IPv6 Ready Certified)	Up to 1142.8 Mpps
Performance (IPv6 Ready Certified)	Routing/Switching capacity
Performance (IPv6 Ready Certified)	1920 Gbps
Performance (IPv6 Ready Certified)	Switch fabric speed
Performance (IPv6 Ready Certified)	2030 Gbps
Performance (IPv6 Ready Certified)	Routing table size
Performance (IPv6 Ready Certified)	10000 entries (IPv4), 5000 entries (IPv6)
Performance (IPv6 Ready Certified)	MAC address table size
Performance (IPv6 Ready Certified)	64000 entries
Environment	Operating temperature
Environment	32°F to 113°F (0°C to 45°C); 0°C to 40°C with J8177C transceiver installed, 0°C to 35°C with FIPS Opacity
Environment	Shield installed
Environment	Operating relative humidity
Environment	15% to 95% @ 113°F (45°C), noncondensing
Environment	Nonoperating/Storage temperature
Environment	-40°F to 158°F (-40°C to 70°C)
Environment	Nonoperating/Storage relative humidity
Environment	15% to 95% @ 149°F (65°C), noncondensing
Environment	Altitude
Environment	Up to 10,000 ft (3 km)
Environment	Acoustic
Environment	Power: 49 dB, Pressure: 35.7 dB ISO 7779,, ISO 9296
Electrical characteristics	Frequency
Electrical characteristics	50/60 Hz
Electrical characteristics	80plus.org Certification
Electrical characteristics	Gold
Electrical characteristics	Description
Electrical characteristics	Does not come with power supply. Two power supply slots are available; three different power supplies are available.

Feature	Value
Electrical characteristics	Description
Electrical characteristics	See power supply products for additional specifications.
Electrical characteristics	Maximum heat dissipation
Electrical characteristics	4900 BTU/hr (5169 kJ/hr), (max. non-PoE);
Electrical characteristics	Maximum heat dissipation
Electrical characteristics	7400 BTU/hr (7,807 kJ/hr), (max. using PoE)
Electrical characteristics	Voltage
Electrical characteristics	100–127/200–240 VAC, rated
Electrical characteristics	Idle power
Electrical characteristics	(depending on power supply chosen)
Notes	Heat dissipation does not include heat dissipated by the PoE-powered devices themselves. When more than four
Notes	power cords are installed in a 5412R zl2 switch chassis, additional installation requirements are needed.
Safety	CSA 22.2 No. 60950; UL 60950; IEC 60950; EN 60950
Emissions	FCC part 15 Class A; EN 55022/CISPR 22 Class A
Immunity	EN
Immunity	ESD
Immunity	Radiated
Immunity	EFT/Burst
Immunity	Surge
Immunity	Conducted
Immunity	Power frequency magnetic field
Immunity	Harmonics
Immunity	Flicker
Immunity	EN 55024, CISPR 24
Immunity	IEC 61000-4-2; 4 kV CD, 8 kV AD;
Immunity	HPE ENV. 765.002
Immunity	IEC 61000-4-3; 3 V/m
Immunity	IEC 61000-4-4; 1.0 kV (power line), 0.5 kV (signal line) IEC 61000-4-5; 1 kV/2 kV AC, 1 kV signal, 0.5 kV DC

Feature	Value
Immunity	IEC 61000-4-6; 3 Vrms
Immunity	IEC 61000-4-8; 1 A/m, 50 or 60 Hz
Immunity	IEC 61000-4-11; >95% reduction, 0.5 period; 30% reduction, 25 periods
Immunity	EN 61000-3-2, IEC 61000-3-2
Immunity	EN 61000-3-3, IEC 61000-3-3
Management	IMC—Intelligent Management Center; Command-line interface; Web browser; Configuration menu; Out-of-band
Management	management (RJ-45 Ethernet); SNMP Manager; Out-of-band management (serial RS-232C or micro USB)
Management	AirWave Network Management
Notes	Supported 1G SFP transceivers are revision “B” or later (product number ends with the letter “B” or later; For example, J9142B, J8177C.

Product Comparison

Feature	J9822A	JL701A	JL665A
Product Type	HPE 5412R zl2 modular chassis switch	Aruba JL701A fixed configuration switch	Aruba JL665A fixed configuration switch
Form Factor	7U chassis, 12 open module slots	1U fixed, 24/48-port model family	1U fixed, multi-gig/PoE access switch
Max Port Density	Up to 288 × 10/100/1000 or 288 SFP or 96 SFP+ or 24 × 40GbE	Typically up to 48 × 1G + 10G uplinks (model dependent)	Typically 24/48 × 1G/Smart Rate + 10G/25G uplinks (model dependent)
PoE Capability	Up to 288 PoE+ ports with appropriate modules and PSUs	Selected JL701A models support PoE+ on access ports	Designed for high PoE/PoE+ density for APs and phones
Switching Capacity	Routing/switching capacity 1920 Gbps; fabric speed 2030 Gbps	Lower than 5400R, suited for access/aggregation	Optimized for high-performance access and distribution
Latency	< 2.8 µs (1G), < 1.8 µs (10G), < 1.5 µs (40G)	Low latency for typical access deployments	Low latency with focus on campus edge performance
Management and SDN	IMC, AirWave, Aruba Central, REST APIs, OpenFlow	Managed via Aruba Central and local Web/CLI	Managed via Aruba Central, supports automation features
Ideal Role	Campus core/aggregation for large enterprises and institutions	Access or light aggregation in branch or SMB	High-performance access layer in wired/wireless campuses

Accessories

Category	Accessories
Included Accessories	- 1 × HPE 5400R zl2 Management Module (J9827A) - 1 × HPE 5412R zl2 Switch Fan Tray (J9832A) - Rack mounting hardware kit
Optional Accessories	- HPE 5400R zl2 power supply modules (various wattages) - 10/100/1000, SFP, SFP+, Smart Rate, and 40GbE interface modules - Supported 1G/10G/40G SFP/SFP+/QSFP transceiver modules

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Shenzhen Branch

Jingfeng Building, 1001 Shangbu South Road, Futian District, Shenzhen, China

USA Branch

35 E Horizon Ridge Pkwy, Ste 110 #30131, Henderson, NV 89002, USA

UK Branch

Third Floor, 207 Regent Street, London W1B 3HH, UK

References

[1] HPE Aruba Networking. (n.d.). J9822A HPE 5412R zl2 Switch Specifications. Retrieved from https://www.hpe.com/psnow/doc/c04293383