HPE Aruba Networking 5400R zl2 Switch Series

HPE Aruba Networking 5406R zl2 Switch (J9821A)

What's new

– Powerful Layer 3 modular switch series with VSF stacking, low latency, resiliency and Dynamic Segmentation for a better mobile-first campus experience.

– HPE Aruba Networking ClearPass Policy Manager, HPE Aruba Networking AirWave and HPE Aruba Networking Central support.

– HPE Smart Rate for high speed multi gigabit bandwidth and PoE+ power.

– Scalable line rate 40 GbE for wireless

Overview

The HPE Aruba Networking 5400R zl2 Switch Series brings enterprise-class resiliency and innovative flexibility to mobile-first networks. This advanced Layer 3 modular switch provides scalable aggregation with HPE Smart Rate multi-gigabit ports for high-speed 802.11ac devices, Dynamic Segmentation, Virtual Switching Framework (VSF) stacking technology, hitless failover, line rate 40 GbE, robust QoS and security and requires no software licensing. The 5400R zl2 Series is easy to deploy and manage with advanced security and network management tools like HPE Aruba Networking ClearPass Policy Manager, HPE Aruba Networking AirWave and cloud-based HPE Aruba Networking Central.

traffic aggregation.

– Fast software upgrade for 5400R zl2 series VSF stack minimizes downtime.

– Ready for the software defined network with REST APIs and OpenFlow support.

Features

Power and Innovation For Your Digital Workplace

The 5400R zl2 Series is an industry-leading mobile campus access solution with HPE Smart Rate multi-gigabit ports for high-speed connectivity for the latest 802.11ac devices. It brings enterprise-class resiliency and true flexibility, security and scalability to mobile campus networks.

Based on the 6th generation ProVision ASIC, the 5400R zl2 Series has a high-speed, high-capacity architecture with 2 Tbps crossbar switching fabric with low 2.1μ latency and built-in programmable and easy to use REST API interface; provides configuration automation for Mobile-first campus networks.

Flexible connectivity options with 6- or 12- slot compact chassis, support for line rate 40 GbE uplinks, up to 96 line rate 10 GbE ports (SFP+ and 10 GBASE-T), 1 GbE and up to 288 ports of PoE+ with internal power supplies.

Optimized for the digital workplace with unified management and security tools such as ClearPass Policy Manager, Airwave and Central. Provides optimal configuration automatically when connected to access points for PoE priority, VLAN configuration, and rogue AP containment.

License free software with advanced Layer 2 and 3 feature set including IPv6, IPv4 BGP, policy based routing, VRRP, OSPF, Tunnel Node and robust QoS.

Resiliency and High Availability at the Edge

The 5400R zl2 Series using the sixth generation ProVision ASIC delivers wire-speed classification and policy enforcement. This hardware-based control of access and traffic allows protection, detection and response to network threats with no network performance degradation.

Uninterrupted switching and routing for improved support of applications such as unified communications and enhanced L3 high availability.

Supports virtual router redundancy protocol (VRRP) allowing groups of two routers to dynamically back each other up to create highly available router environments in both IPv4 and IPv6 networks.

Redundant management and power systems enhance system availability and continuity of operations. Hot-swappable modules and optional redundant power supply provides uninterrupted power and allows swapping of modules with no impact on the network availability.

Virtual Switching Framework (VSF) virtualizes up to two physical switches into one logical device for simpler, flatter, more agile networks. Fast Software Upgrade minimizes downtime during upgrade on 5400R zl2 Series VSF stack.

Robust Security and Dynamic Quality of Service (QoS)

The HPE Aruba Networking 5400R zl2 Switch Series includes a robust set of security and quality of services features to build a network that meets ever-changing corporate policies and compliances.

Flexible authentication options include 802.1X, MAC and Web delivering greater policy-driven application security. Industry standard MACsec provides link-level encryption security between two points using copper or fiber links (available on select modules only).

Advanced distributed denial of service (DDOS) protection, such as DHCP Snooping, IP Source Guard, and ARP Protection, and flexible traffic controls, such as policy-based routing, QoS, and ACLs, manage end-to-end application priorities.

Powerful multilevel-access security controls, such as varying security management login, RADIUS/TACACS+, and SSH for safe control change management access. Defend the edge of your IPv6 network with DHCPv6 Protection and Dynamic IPv6 Lockdown.

Tunnel Node to transport network traffic to networking controller with authentication and network policies applied and enforced at the controller.

Simplify with Integrated Wired/Wireless Management

The 5400R zl2 Series supports HPE Aruba Networking ClearPass Policy Manager for unified and consistent policy between wired and wireless users and simplifies implementation and management of guest login, user onboarding, network access, security, QoS, and other network policies.

Supports HPE Aruba Networking AirWave to provide common platform for Zero-Touch Provisioning management, and monitoring for wired and wireless network devices.

RMON, XRMON and sFlow provide advanced monitoring and reporting capabilities for statistics, history, alarms, and events.

HPE Aruba Networking Central cloud-based management platform offers simple, secure, and cost effective way to manage switches.

Supports both cloud-based Central and On-Premise AirWave with the same hardware ensuring change of management platform without ripping and replacing switching infrastructure.

Technical specifications	HPE Aruba Networking 5406R zl2 Switch
Product Number	J9821A
Differentiator	5406R zl2 Switch 4U height Included accessories: 1 HPE Aruba Networking 5400R zl2 Management Module (J9827A) 1 HPE Aruba Networking 5406R zl2 Switch Fan Tray (J9831A) Does not come with power supply
Ports	6 open module slots Supports a maximum of 144 autosensing 10/100/1000 ports or 144 SFP ports or 48 SFP+ ports or 48 HPE Smart Rate Multi-Gigabit or 12 40 GbE ports, or a combination.
Memory and processor	Depend on the model: Dual Arm Cortex A9 at 1 GHz; Packet buffer size: 13.5 MB internal Arm 11 at 450 MHz; Packet buffer size: 18 MB internal. Dual Arm Cortex A9 at 1; Packet buffer size: 13.5 MB internal Arm 11 at 550 MHz; Packet buffer size: 18 MB internal. Dual Arm Cortex A9 at 1 GHz; Packet buffer size: 13.5 MB internal Freescale P2020 dual core at 1.2 GHz, 16 MB flash, 1 GB SD Card, 4 GB DDR3 SODIMM.
Latency	1000 Mb Latency: < 2.8 μs 10 Gbps Latency: < 1.8 μs 40 Gbps Latency: < 1.5 μs
Throughput	571.4 Mpps
Routing/switching capacity	960 Gbps
Switch fabric speed	1015 Gbps
PoE capability	No
Management features	HPE Aruba Networking Management Software HPE Aruba Networking Central HPE Intelligent Management Center Basic Software Platform (IMC) Command-line interface Web browser Configuration menu Out-of-band management (RJ-45 Ethernet) Out-of-band management (serial RS-232C or micro USB) SNMP manager
Power supply name	2 power supply slots 1 minimum power supply required (ordered separately)
Input voltage	100–127/200–240 VAC, rated (depending on power supply chosen)
Heat dissipation	2450 BTU/hr (2584 kJ/hr), (max. non-PoE) 3700 BTU/hr (3903 kJ/hr) (max. using PoE)
Product dimensions	44.45 x 45.09 x 17.53 cm
Weight	11.11 kg

HPE Aruba Networking Services

HPE Aruba Networking services simplify and accelerate the network technology lifecycle, enabling your network to scale with better predictability and cost-effectiveness. Whether you operate your own network and need to improve your IT efficiencies, or you want to offload some of the burden, we have the services you need to reach your goals.

Learn more about what HPE Services - Aruba Networking has to offer at: hpe.com/edge/services

Support Services

Our support portfolio provides the essential support elements as well as proactive and preventive features to help you improve your team's productivity and get the most from your network. Our support customers benefit from faster issue resolution, simplified operations and efficiencies, and reduced network issues.

Professional Services

With deep intellectual capital and purpose-built tools, our team delivers a range of standard and custom professional services designed to accelerate your value from HPE Aruba Networking technology.

Project based services include:
— Planning, audit, and assessment
— Architecture review and design
— Deployment, migration, and knowledge transfer

Annual subscription services include:
— Network optimization
— Intelligent Operations
— Customer Experience Management

Our Education Services allow your team to come up to speed quickly.

HPE GreenLake for Networking

Our NaaS solution, is part of the HPE GreenLake services family, and simplifies network operations, accelerates equipment handling, and increases the value of your HPE Aruba Networking solution. If you need expert guidance and automation-based operations for your team, please explore our NaaS approach through HPE GreenLake for Networking.

For additional technical information, available models and options, please reference the QuickSpecs

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

Image may differ from the actual product.

PSN6635525WWEN, September 02, 2025.

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