

Aruba R0X26A

Datasheet

Product Overview

- Aruba CX 6400 Series is a next-generation modular switch platform for campus core, aggregation, and data center networks.
- Designed for large enterprises, education, healthcare, and branches, it supports dense wired access, aggregation, and resilient core deployment.
- It delivers high throughput with line-rate 1/10/25/40/50/100GbE, sub-microsecond latency, and a scalable fabric to support growing traffic.
- A modern, fully programmable OS and Aruba Network Analytics Engine enable deep visibility and fast root cause analysis.
- Centralized orchestration with Aruba Central and VSX for hitless upgrades simplifies lifecycle management and reduces downtime.
- For IoT, mobile, and cloud, CX 6400 provides a secure, high-performance foundation that keeps users connected and traffic segmented end to end.

Product Highlights

- **Advanced Layer 3 and MPLS Fabric:** Supports BGP, MPLS, EVPN, VXLAN, VRF, and OSPF with integrated security and QoS, enabling scalable campus and data center routing designs.
- **High-Performance Switching Core:** Delivers up to 28 Tbps switching capacity and 11.4 Bpps forwarding, ensuring non-blocking performance for demanding enterprise workloads.
- **Resilient VSX Architecture:** VSX enables live upgrades, active-active redundancy, and independent control planes, improving availability and simplifying maintenance.
- **Unified Management and Automation:** Aruba Central, NetEdit, NAE, and dynamic segmentation provide single-pane management, automated validation, and consistent wired/wireless access control.

Detailed Features



R0X26A

 Quote | Help

Component	Specification
Component	6405 Switch CORE 1
Port Speeds	1 GbE, 10 GbE, 25 GbE, 40 GbE, 50 GbE, 100 GbE

High-Density Multi-Speed Interfaces

The Aruba 6405 Switch CORE 1 delivers a flexible mix of 1 GbE, 10 GbE, 25 GbE, 40 GbE, 50 GbE, and 100 GbE interfaces at line rate. This allows enterprises to run legacy access, high-speed uplinks, and data center interconnects on one platform. With up to 12.8 Tbps switching capacity and up to 4.8 Bpps forwarding rate, the switch is built for eastwest traffic patterns, virtualization, and dense server or AP deployments without oversubscription.

Low Latency for Critical Applications

Sub-microsecond latency ensures that delay-sensitive services such as financial trading, real-time analytics, voice, and video conferencing run smoothly. The non-blocking fabric minimizes jitter and packet loss, even during peak load. This enables campus cores and data center aggregation layers to support modern application architectures, including microservices and distributed databases, while keeping user experience consistent.

Resilient Power and Cooling Design

Redundant, hot-swappable power supplies and hot-swappable fans provide carrier-grade hardware resilience. Components can be replaced without shutting down the chassis, reducing maintenance windows and unplanned outages. This design is well suited for 24x7 environments such as hospitals, manufacturing plants, and large campuses, where network downtime directly affects operations and business continuity.

Compact 1U Core-Ready Form Factor

Despite its core-level performance, the Aruba 6405 comes in a compact 1U form factor. This saves rack space in data centers and wiring closets while maintaining high port density. The smaller footprint simplifies deployment in edge or co-location facilities with limited space and power budgets, allowing integrators to standardize on a single, efficient hardware platform across tiers.

Robust Layer 2 and Layer 3 Feature Set

The switch supports extensive Layer 2 and Layer 3 capabilities, making it suitable for access, aggregation, and core roles. Enterprises can deploy rich VLAN segmentation with up to 4096 VLAN IDs and up to 128K MAC addresses, along with static and dynamic routing. Support for advanced routing protocols and features such as VRF, multicast, and policy-based forwarding allows flexible network design and smooth scaling as business needs grow.

Flexible and Secure Management Options

Multiple management interfaces, including CLI, Web GUI, and Aruba Central, address different operational models. Administrators can use familiar command-line tools for detailed control or graphical tools for quick provisioning and monitoring. Integration with Aruba Central enables cloud-based lifecycle management, template-driven configurations, and centralized visibility across wired, wireless, and WAN environments.

Comprehensive Security Controls

Security features such as IEEE 802.1X, RADIUS, and TACACS+ provide strong authentication and authorization for users and devices. Combined with VLAN segmentation and role-based access, these capabilities help contain threats and enforce least-privilege policies at the network edge. This is especially valuable in environments with many IoT endpoints, where consistent access control is needed without adding complexity for the operations team.

Carrier-Class Environmental Tolerance

The Aruba 6405 supports storage temperatures of -40°C to 70°C and operating conditions from 0°C to 45°C with 5% to 95% non-condensing humidity. These specifications make it suitable for challenging environments such as industrial campuses, warehouses, or lightly conditioned telecom rooms. The robust environmental design helps protect investment by ensuring stable operation under wide temperature and humidity ranges.

Technical Specifications

Product Specifications

Feature	Value
Brand	Aruba
Model	6405 Switch CORE 1
Port Speeds	1 GbE, 10 GbE, 25 GbE, 40 GbE, 50 GbE, 100 GbE
Switching Capacity	Up to 12.8 Tbps
Forwarding Rate	Up to 4.8 Bpps
Latency	Sub-microsecond



Feature	Value
Form Factor	1U
Power Supply	Redundant, hot-swappable
Cooling System	Hot-swappable fans
Storage Temperature	-40??C to 70??C
Operating Temperature	0??C to 45??C
Operating Humidity	5% to 95% non-condensing
Management Options	CLI, Web GUI, Aruba Central
Monitoring	Intelligent monitoring
Layer Support	Layer 2 and Layer 3
MAC Addresses	Up to 128K
VLAN IDs	Up to 4096
Security Features	IEEE 802.1X, RADIUS, TACACS+
Dimensions (WxDxH)	43.8cm x 50.8cm x 4.4cm
Warranty	Limited lifetime warranty

Product Comparison

Feature	R0X26A	C8R44A	JL700A
Product Type	Campus/core switch	Campus access/aggregation switch	Campus aggregation switch
Switching Capacity	Up to 12.8 Tbps	High, model dependent	High, model dependent
Forwarding Rate	Up to 4.8 Bpps	Line-rate forwarding	Line-rate forwarding
Port Speeds	1/10/25/40/50/100GbE mix	Primarily 1/10GbE	1/10/25GbE (model dependent)
Redundancy	Redundant hot-swap PSUs and fans	Redundant power options	Redundant power and fan options
Management	CLI, Web GUI, Aruba Central	CLI, Web GUI, Aruba Central	CLI, Web GUI, Aruba Central
Layer Support	Advanced L2/L3 with large tables	L2/L3 for access and aggregation	L2/L3 with richer feature set
Ideal Role	Compact core or high-performance aggregation	Wired access or small aggregation	Aggregation in larger campus



Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none">- Rack mounting kit- Power cords for redundant PSUs- Quick installation guide
Optional Accessories	<ul style="list-style-type: none">- SFP/SFP+/QSFP transceiver modules- Additional hot-swappable power supply units- Direct Attach Copper (DAC) cables

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References

[1] Aruba. (n.d.). R0X26A Specifications. Retrieved from <https://www.hpe.com/psnow/doc/a00085158enw>