Aruba JL665A

Datasheet

Product Overview

- Aruba's CX 6300 Switch Series is a smart, flexible line of AOS-CX stackable switches designed for top-tier performance and reliability.

- Ideal for access, aggregation, and top-of-rack use in data centers, small enterprise networks, and distributed branch locations.

- Delivers advanced hardware with built-in 1/10/25/50GbE uplinks, a programmable OS, and Aruba's powerful Gen7 ASIC.

- Features the Aruba Network Analytics Engine for real-time network health monitoring and troubleshooting.

- Supports Aruba NetEdit and the Mobile App, ensuring error-free configuration and rapid, simplified deployment.

- Delivers exceptional scalability, security, and future-ready power—making it the optimal choice for growing business workloads and evolving traffic demands.

Product Highlights

- **Advanced Layer 3 Stacking:** Supports robust Layer 3 protocols like BGP, OSPF, EVPN, and VXLAN, with up to 10 devices in a single stack for flexible expansion.

- **Massive Switching Performance:** Provides up to 880 Gbps system switching capacity, 660 MPPS throughput, and 200 Gbps stacking bandwidth, fit for demanding environments.

- **Full Enterprise Access Flexibility:** Includes HPE Smart Rate multi-gigabit PoE and high-speed SFP+ models, adaptable for both data center and edge deployments.

- **Automated Deployment and Security:** Aruba NetEdit, Mobile App, and Dynamic Segmentation enable secure, automated, and policy-driven network management.

Detailed Features

JL665A

Component	Specification
Switching Ports	48 × 10/100/1000 BASE-T PoE+ (up to 30W per port)
Uplink Ports	4 × 1/10/25/50G SFP
Stacking Support	Up to 10 switches per stack
PoE Standards	IEEE 802.3bt, up to 60W per port (model dependent)
Airflow Design	Optimized for top-of-rack and OOBM deployments

Real-Time Network Analytics

Aruba's built-in Network Analytics Engine offers end-to-end visibility and real-time issue detection. It analyzes events that may impact network health, providing actionable insights and helping IT teams resolve issues faster for optimized network stability and security.

Automation and Programmability

Advanced automation uses Python agents and REST APIs to streamline device configuration, management, and network-wide policy changes. Aruba NetEdit enables quick updates and ensures policy compliance, considerably reducing manual effort and human error.

High-Performance ASIC Architecture

With Aruba Gen7 ASICs, the CX 6300 delivers low latency, increased packet buffering, and adaptive power use. Its fully distributed design supports wire-speed switching for demanding application and high-bandwidth workloads in modern enterprise environments.

Scale with Virtual Switching

Aruba Virtual Switching Framework (VSF) lets you stack up to 10 switches together, expanding port capacity and simplifying unified management. Stacking offers up to 200 Gbps throughput per switch so your network grows without bottlenecks.

Robust Multi-Gigabit Power

Model options provide HPE Smart Rate multi-gigabit Ethernet with up to 60W PoE per port and a total PoE budget up to 2880W. This supports high-speed access points, IP surveillance, and emerging IoT devices across large campuses.

Dynamic Segmentation

The switch enforces user- and application-aware policies with Dynamic Segmentation, combining device profiling, role-based access control, and deep Layer 7 firewall features for a secure, dynamic network environment tailored to each user or device.

Enhanced Multi-Tenant Support

VXLAN-to-VRF mapping with switch-to-switch tunnels enables advanced multi-tenancy in enterprise or service provider networks. Policy-based user roles support fine-grained access control for secure, scalable deployments.

Comprehensive Management Suite

Manage devices via Aruba AirWave, Aruba Central, Aruba NetEdit, or standard CLI/SNMP tools. Features like RMON, time-series data storage, and one-touch setup with the Aruba CX Mobile App make for efficient operation and fast troubleshooting.

Technical Specifications

Product Specifications

Feature	Value
Product Number (SKU)	JL665A
Product Series	Aruba CX 6300 Switch Series
Model Description	48 10/100/1000BASE-T and 4 SFP56 ports, supports Class 4 PoE
10/100/1000 BASE-T PoE+ Ports	48 ports, up to 30W per port
SFP Ports	4 × 1/10/25/50G
Memory	Quad Core ARM Cortex™ A72 @ 1.8GHz
System Memory	8 GBytes DDR4
Storage	32 GBytes eMMC
Shared Packet Buffer Memory	8 MB
Port Latency (1Gbps/10Gbps/25Gbps/50Gbps)	2.28µSec / 1.46µSec / 1.90µSec / 3.49µSec
Throughput	369 Mpps
Switching Capacity	496 Gbps

Feature	Value
PoE Capability	Up to 740W
Stacking Capability	Up to 10 switches per stack
Management Features	Aruba AirWave, Aruba Central, Aruba NetEdit, CLI, SNMP v2c/v3, RMON
Input Voltage	100-120/200-240 VAC
Power Consumption	86 W (maximum)
Product Dimensions (metric)	4.4 x 44.2 x 32.7 cm
Weight	5.10 kg

Product Comparison

Feature	JL665A	C9200L-24P-4X-E	C1000-48T-4X-L
Fixed Ports	48 × 10/100/1000BASE-T + 4 × 1/10/25/50G SFP	24 × 10/100/1000BASE-T + 4 × 1G/10G SFP+	48 × 10/100/1000BASE-T + 4 × 1G/10G SFP+
PoE Capability	Up to 740W (30W/port)	Up to 370W PoE+ (30W/port)	Not supported
Switching Capacity	496 Gbps	128 Gbps	176 Gbps
Stacking	Up to 10 switches (VSF, 200 Gbps/stack)	Supported, up to 8 units	Not supported
Layer 3 Support	Full: OSPF, BGP, VXLAN, VRF, EVPN	Static Routing, RIP, OSPF, EIGRP	Static Routing only
Management Features	Aruba Central, CLI, SNMP, NetEdit	Cisco DNA Center, CLI, SNMP	Web UI, CLI, SNMP
Advanced Security	Dynamic Segmentation, Policy-based Roles	802.1X, TrustSec	Basic ACLs
Suitable Scenario	Enterprise access/aggregation, Data Center ToR	Small-Medium Enterprise Edge	Cost-effective Layer 2/Basic Layer 3 access

Accessories

Category	Accessories
Included Accessories	- Power Adapter - Mounting Brackets - Quick Start Guide

Category	Accessories
Optional Accessories	- SFP Transceiver - PoE Power Supply Module - Stacking Cable

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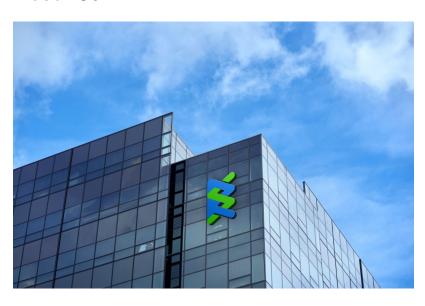
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References

[1] Aruba Networks. (2023). Aruba 6300F 48-port 1GbE Class 4 PoE and 4-port SFP56 Switch Data Sheet (JL665A). Retrieved from https://www.edsystem.sk/fileshare/products/datasheet/hpn/aruba%206300f%2048-port%201gbe%20class%204%20poe%20and%204-port%20sfp56%20switch%20data%20sheet(jl665a)(436860).pdf