

# Aruba JL661A

## Datasheet



## Product Overview

- Aruba HPE Networking CX 6300 Series switches deliver modern, intelligent, stackable campus and data center access for JL661A deployments.
- Designed for access, aggregation, and top-of-rack in midsize to large enterprises, it serves branch, campus, and private cloud networks.
- Gen7 ASIC architecture provides non-blocking performance, deep buffers, and low latency, while high-speed uplinks ensure fast data and AI traffic.
- Cloud-native OS and full programmability enable advanced automation, analytics, and integration with Aruba Central for unified operations.
- IT teams gain flexible deployment, real-time monitoring, and faster troubleshooting with built-in network analytics and multi-edit configuration tools.
- For organizations planning Wi-Fi 7, AI, and IoT growth, JL661A offers scalable stacking, high-power PoE, and secure, future-ready wired access.

## Product Highlights

- **Advanced Layer 3 and Security:** CX 6300 provides full Layer 3 features including BGP, OSPF, EVPN, VXLAN, VRF, plus QoS, MACsec 256, PTP, AVB, and LRM for secure, service-rich networks.
- **High-Performance Architecture:** 7th Gen ASIC delivers 8801760 Gbps switching capacity, 6601310 Mpps throughput, and up to 200400 Gbps stacking bandwidth for demanding enterprise traffic.
- **Flexible Stack and Resiliency Options:** Choose VSF stacking for 210 members or VSX dual-system clustering for active-active redundancy, improved availability, and simpler scaling.
- **Multi-Gig and High-Power PoE:** 2448 HPE Smart Rate multi-gig ports and 1GbE fiber options support up to 90W 802.3bt PoE with integrated telemetry and CX Network Analytics Engine automation.

## Detailed Features



JL661A

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Component	Specification
Downlink Ports	48 × 10/100/1000Base-T PoE+ ports, up to 30 W per port
Uplink Ports	4 × 1G/10G/25G/50G SFP ports
PoE Standards	IEEE 802.3af, IEEE 802.3at
Management Ports	1 × USB Console, 1 × USB Type-C Host, 1 × OOBM port
Switching Capacity	496 Gbps



## AI-Optimized Switching Fabric

The CX 6300 platform uses a fully distributed architecture with Gen7 ASICs to deliver wire-speed performance across all ports. Low latency and increased packet buffering help maintain stable application performance under AI, Wi-Fi 7, and dense IoT loads. Intelligent power management optimizes energy use without sacrificing throughput, supporting data-intensive services at scale.

## Scalable High-Bandwidth Stacking

HPE Aruba Networking Virtual Switching Framework (VSF) enables high-performance front-plane stacking so multiple CX 6300 switches operate as one logical system. Four integrated uplinks support 10, 25, 50, or 100GbE, delivering 200400 Gbps stacking bandwidth per unit. This design simplifies expansion, increases aggregate capacity, and supports flexible campus and top-of-rack architectures.

## Resilient Active-Active Design

With HPE Aruba Networking Virtual Switching Extension (VSX), two CX 6300 switches form an active-active pair using an inter-switch link. Each chassis maintains an independent control plane while synchronizing key state information. This architecture minimizes downtime, supports hitless failover for critical services, and enables maintenance with reduced impact in mission-critical environments.

## Flexible Multi-Gig and High-Power PoE

HPE Smart Rate multi-gigabit Ethernet provides adaptive speeds for diverse endpoints such as Wi-Fi access points, IoT gateways, and high-performance clients. Each PoE-enabled port can supply Class 4 (30 W), Class 6 (60 W), or Class 8 (90 W) power with scalable PoE budgets of 720 W, 1440 W, or 2880 W. This removes the need for separate power infrastructure and simplifies device rollout.

## Energy Efficiency and Scheduled Hibernation

CX 6300 and CX 6300L models support a hibernation mode that allows administrators to schedule port or device downtime during off-peak hours. By powering down unused resources, the switch reduces operational energy costs without affecting daytime performance. This is particularly valuable in offices, schools, and branches with predictable usage patterns and green IT goals.

## Built-In Analytics and Time Series Insight

An integrated time series database (TSDB) continuously stores configuration and operational state for CX 6300 switches. Combined with embedded analytics, this allows real-time monitoring, trend analysis, and rapid issue correlation. Operators can quickly identify abnormal behavior, accelerate root-cause analysis, and restore service faster using historical telemetry directly from the switch.

## Automation with Aruba Central and Multi-Edit

HPE Aruba Networking Central provides AI-native, full-stack management across wired, wireless, and WAN, centralizing policy and visibility. The CX Switch Multi-Edit Software adds powerful automation for bulk configuration, validation, and conformance checks. Administrators can search, edit, deploy, and audit changes across many switches, reducing manual effort and configuration drift.

## Secure Segmentation and Data Center Integration

Dynamic segmentation applies user, device, and application-aware policies across Aruba wired and wireless networks, with role-based access control and Layer 7 firewall functions. VXLAN to VRF mapping and switch-to-switch tunnels support scalable multi-tenancy and segmentation in campus or data center environments. CX 6300 also integrates into HPE validated solutions with HPE Compute and Storage, simplifying deployment of complex virtualized and HCI stacks.

# Technical Specifications

## Product Specifications

Feature	Value
Ports Detail	Ports 48 x 10/100/1000 BaseT PoE+ ports supporting up to 30W per port 4 x 1G/10G/25G/50G [4] SFP ports Supports PoE standards IEEE 802.3af, 802.3at 1 x USB-C console port 1 x USB Type-A host port 1 x OOBM port Switching capacity 496 Gbps
Downlink Ports	48 x 10/100/1000 BaseT PoE+ ports supporting up to 30W per port
Uplink Ports	4 x 1G/10G/25G/50G [4] SFP ports



Feature	Value
PoE Standards	Supports PoE standards IEEE 802.3af, 802.3at
Console Port Type	1 x USB-C console port
USB Host Port	1 x USB Type-A host port
Out-of-Band Management Port	1 x OOBM port
Switching Capacity	Switching capacity 496 Gbps

## Product Comparison

Feature	JL661A	JL668A	JL666A
Product Series	Aruba HPE Networking CX 6300 Series	Aruba HPE Networking CX 6300 Series	Aruba HPE Networking CX 6300 Series
Downlink Ports	48 × 10/100/1000Base-T PoE+	Multi-gigabit/1G mix (model-specific)	48 × 10/100/1000Base-T (non-PoE or PoE, model-specific)
Uplink Ports	4 × 1G/10G/25G/50G SFP	4 × 1G/10G/25G SFP (model-specific)	4 × 1G/10G SFP+ (model-specific)
PoE Capability	PoE+, up to 30 W per port	High-power PoE, up to 60/90 W on selected ports	Optional PoE models, lower total PoE budget
Switching Capacity	496 Gbps	Higher or equal, up to 1.76 Tbps on selected models	Similar CX 6300 class, model-dependent
Stacking/Resiliency	VSF stacking, VSX support, 200–400 Gbps stack	VSF stacking, VSX support, high stack bandwidth	VSF stacking, VSX support, standard stack bandwidth
Target Deployment	High-density PoE access with mixed-speed uplinks	Multi-gigabit AP and advanced access with higher PoE	General campus access or aggregation with flexible models
Best-Fit Scenario	AI/Wi-Fi 7-ready PoE edge with future-proof uplinks	Wi-Fi 6/6E/7 AP dense deployments needing 60–90 W PoE	Cost-balanced campus access where PoE or non-PoE variants are chosen per area

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- AC power cord</li> <li>- Rack mounting kit</li> <li>- Quick installation guide</li> </ul>



Category	Accessories
Optional Accessories	<ul style="list-style-type: none"> <li>- SFP/SFP+ transceivers</li> <li>- Direct Attach Copper (DAC) cables</li> <li>- External redundant power solution (where supported)</li> </ul>



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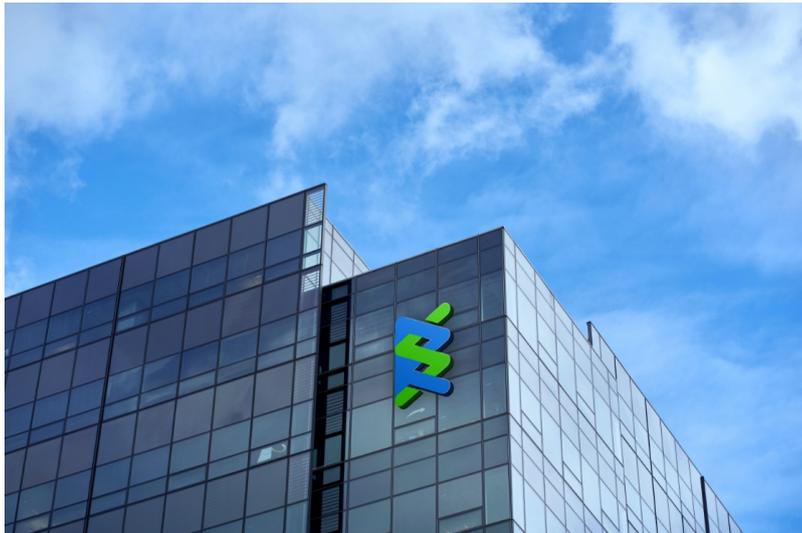


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## References

[1] HPE Aruba Networking. (2023). HPE Aruba Networking CX 6300 Switch Series Datasheet (PSN1012183879BEEN). Retrieved from <https://www.hpe.com/psnow/doc/PSN1012183879BEEN>