

HPE Aruba Networking CX 4100i Switch Series

HPE Aruba Networking 4100i 12p 1GbE 8p Class4 PoE and 4p Class6 PoE 2p SFP+ DIN Mount Switch (JL817A)



What's new

- Ruggedized Layer 2 switch series provides high performance, fully manageable, and reliable, Ethernet connectivity to IoT, access points, and user devices in harsh environments.
- Versatile form factors with fast 1/10GbE uplinks deliver both 30W and 60W PoE to improve IoT power.
- Layer 2 feature set with static routing and no switch software licensing required.

Overview

The Aruba CX 4100i Switch Series is a modern family of ruggedized Ethernet switches ideal for connecting IoT, access points, and user devices in harsh environments. Created for high performance, reliable, and access with enhanced security, the Aruba CX 4100i switches provide versatile deployment options for enterprise networks extending beyond carpeted areas to challenging outdoor and industrial spaces.

Based on the programmable AOS-CX operating system used across the Aruba CX portfolio, this IP30 ruggedized series helps deliver a more consistent, more efficient operator experience. This Layer 2 series has convenient built-in high speed uplinks, supports both 30W and 60W PoE,

- Aruba Dynamic Segmentation [1] enables enhanced security and simplified access for users and IoT.
- Management flexibility with support for Aruba Central, easy-to-use Web GUI, CLI, and Aruba NetEdit.

and is ready for deployment with fan less 12 port DIN mount and 24 port 1U rack mount models. With robust QoS, support for static routing, and IPv6, the Aruba CX 4100i also simplifies ownership with no switch software licensing requirements.

Features

Ruggedized Aruba CX Switches

The Aruba CX 4100i Switch Series provides IP30 Ethernet connectivity with high speed uplinks, 30W and 60W PoE, to securely extend the enterprise network and support IoT in harsh environments.

Using Aruba AOS-CX operating system across Aruba CX switching platforms and deployment domains provides a simpler, more consistent operator experience.

Achieve versatile deployment with fan less 12 port DIN rail mount and 24 port 1U rack mount models with built-in 1/10GbE uplinks and up to 360W Class 4 and Class 6 PoE.

Fully-managed enterprise class switches deliver Layer 2 capabilities with support for static routing, ACLs, robust QoS, traffic prioritization, and IPv6 support.

Simplifies ownership with no switch software licensing or subscriptions required.

Performance and Power

The Aruba CX 4100i Switch Series is designed with Aruba ASICs that deliver very low latency, increased packet buffering, and adaptive power consumption.

Deploy IoT devices and wireless access points in harsh environments with models that support up to 360W IEEE 802.3at Class 4 and IEEE 802.3bt Class 6 Power over Ethernet.

Built-in wire speed 1/10GbE uplinks remove bottlenecks at the access layer where devices connect.

Operational in extended temperatures from -40oC to 70oC using Aruba's industrial transceivers.

Simplified Configuration and Management

The Aruba CX 4100i Switch Series provides flexibility to manage and simplify configurations with Aruba NetEdit, easy to use built-in web GUI, or industry standard CLI.

Aruba NetEdit introduces automation that allows for rapid network-wide changes and verifies policy conformance post network updates.

Software-defined ready with REST APIs for fine-grained programmability of network tasks.

Smarter Segmentation

The Aruba CX 4100i Switch Series supports Aruba Dynamic Segmentation that automatically applies and enforces user, device, and application-aware policies on Aruba wired and wireless infrastructures.

Automated device profiling, role-based access control, and Layer 7 firewall features deliver enhanced visibility and performance for a better overall experience for both IT and end-users alike.

Reduces time-consuming and error-prone task of adds, moves and changes.



Technical specifications**HPE Aruba Networking 4100i 12p 1GbE 8p Class4 PoE and 4p Class6 PoE 2p SFP+ DIN Mount Switch**

Product Number	JL817A
Ports	4x ports 100M/1G BaseT Class 6 PoE ports supporting up to 60W per port 8x ports 100M/1G BaseT Class 4 PoE ports supporting up to 30W per port 2x 1G/10G SFP ports 1x USB-C Console Port 1x RJ45 Console 1x USB Type A Host port 1x Alarm socket
Memory and processor	4 GB DDR3 32 GB eMMC Dual Core ARM Cortex A9 @ 1016 Mhz
Latency	1 Gbps: 2.390 µSec , 10 Gbps: 2.038 µSec Average Latency (LIFO-64-bytes packets)
Routing/switching capacity	Switching: up to 64 Gbps Routing throughput: up to 46 Mpps 64 byte frames
Stacking capabilities	No Stacking capability
Management features	Management flexibility with support for Aruba Central, easy-to-use Web GUI, CLI, and Aruba NetEdit. Note: Central support in a future-release of Aruba Central.
Input voltage	See Power Supplies JL819A, JL820A and JL821A
Power consumption	With JL819A PSU: Idle: 22W 100% Traffic Rate: 26W 100% Traffic Rate (w/ heater): 55W With JL820A PSU: Idle: 24W 100% Traffic Rate: 28W 100% Traffic Rate (w/ heater): 57W With JL821A PSU: Idle: 22W 100% Traffic Rate: 27W 100% Traffic Rate (w/ heater): 56W Note: Heater will only turn on at extreme low temperature condition.
Heat dissipation	With JL819A PSU: 89 BTU/hr at 230V - Room temperature (25°C) With JL820A PSU: 95 BTU/hr at 230V - Room temperature (25°C) With JL821A PSU: 94 BTU/hr at 48V - Room temperature (25°C)
Product dimensions (metric)	H:160 mm x W:113 mm x D:162.9 mm (D:173.5 mm w/DIN Rail Bracket)

Weight	3.71 kg
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[1] User Based Tunneling (UBT) and Local User Roles (LUR) supported.

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

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: arubanetworks.com/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: Annual subscription services include:

- Planning, audit, and assessment
- Architecture review and design
- Deployment, migration, and knowledge transfer
- 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, HPE Aruba Networking Managed Connectivity services, part of the HPE GreenLake services family, simplifies network operations, accelerates equipment handling, and increases the value of your HPE Aruba Networking network. If you need expert guidance and automation-based operations for your team, please explore the NaaS [here](#).

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