Data sheet

HPE Aruba Networking CX 4100i Switch Series

HPE Aruba Networking CX 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 1/10 GbE 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 HPE Aruba Networking 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 secure access with enhanced security, the CX 4100i switches provide versatile deployment options for enterprise networks extending beyond carpeted areas to challenging outdoor and industrial spaces.

Based on the programmable HPE Aruba Networking CX Switch Operating System (AOS-CX) used across the CX portfolio, this IP30 ruggedized series helps deliver a more consistent and efficient operator experience. This Layer 2 series has convenient built-in high speed uplinks, supports both 30W and 60W PoE, and is ready for deployment with fan less 12 port DIN mount and

- HPE Aruba Networking Dynamic Segmentation enables enhanced security and simplified access for users and IoT.
- Management flexibility with support for HPE Aruba Networking Central, easy-to-use Web GUI, CLI, and HPE Aruba Networking Switch Multi-Edit Software.
- HPE Aruba Networking Virtual Switching Framework (VSF) now available to scale up local network resources and resiliency requirements.

24 port 1U rack mount models. With robust QoS, support for static routing, and IPv6, the CX 4100i series also simplifies ownership with no switch software licensing requirements.

Features

Ruggedized Access Switch Series

The HPE Aruba Networking 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.

Uses the HPE Aruba Networking CX Switch Operating System (AOS-CX) for a simpler, more consistent operator experience with capabilities fit for ruggedized access.

Achieve versatile deployment with fanless 12 port DIN rail mount and 24 port 1U rack mount models with built-in 1/10 GbE 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.

AI-ready performance and power

The HPE Aruba Networking CX 4100i Switch Series is designed with ASICs that deliver very low latency, increased packet buffering, and adaptive power consumption needed to support AI, Wi-Fi 7, and IoT requirements.

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

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

Operational in extended temperatures from -40°C to 70°C using HPE Aruba Networking's industrial transceivers.

Simplified Configuration and Management

The CX 4100i series provides flexibility to manage and simplify configurations with HPE Aruba Networking Switch Multi-Edit Software, easy to use built-in web GUI, or industry standard CLI.

HPE Aruba Networking Switch Multi-Edit Software introduces automation that allows for rapid network-wide changes and verifies policy conformance post network updates.

Ready for software-defined networking with REST APIs for fine-grained programmability of network tasks.

Virtual Switching Framework (VSF) allows you to quickly grow your network using high performance stacking.

Smarter Segmentation

The CX 4100i series supports dynamic segmentation that automatically applies and enforces user, device, and application-aware policies on 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.

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

Technical specifications	HPE Aruba Networking CX 4100i 12p 1GbE 8p Class4 PoE and 4p Class6 PoE 2p SFP+ DIN Mount Switch
Product Number	JL817A
Differentiator	8 x 100M/1G Base-T Class 4 PoE ports, supporting up to 30W per port 2 x 1/10G SFP ports 2 x DC power socket
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)
Input voltage	AC voltage: 100V-240V (JL819A and JL820A) DC voltage: 12V-48V nominal, UL Certified to: 11V-55V (JL821A)
Ports	4 x 100M/1G Base-T Class 6 PoE ports, supporting up to 60W per port 8 x 100M/1G Base-T Class 4 PoE ports, supporting up to 30W per port 2 x 1G/10G SFP ports 1 x USB-C console port 1 x RJ45 console 1 x USB Type-A host port 1 x Alarm socket
Latency	1 Gbps: 2.390 µSec , 10 Gbps: 2.038 µSec Average Latency (LIFO-64-bytes packets)
Switching capacity	Up to 128 Gbps depending on the model
Stacking capabilities	No stacking capability
Throughput	Up to 95 Mpps depending on the model

Technical specifications	HPE Aruba Networking CX 4100i 12p 1GbE 8p Class4 PoE and 4p Class6 PoE 2p SFP+ DIN Mount Switch
Memory and processor	4 GB DDR3 32 GB eMMC Dual Core ARM Cortex A9 @ 1016 Mhz
Power supply	Field replaceable Industrial DIN Rail Power Supplies Supported PSUs: JL819A, JL820A and JL821A Supported 2 PSU with redundancy, non-sharing See external PSU specification table for available PoE power
PoE capability	Refer to Installation and Getting Started Guide for the PoE budget setup.
Operating temperature	-40°C to 60°C, 0m/s (-40°F to 140°F, 0 LFM) -40°C to 70°C, 0.2m/s (-40°F to 158°F, 40 LFM) -34°C to 75°C, 1m/s (-29.2°F to 167°F, 200 LFM)
Management features	Management flexibility with support for HPE Aruba Networking Central, easy-to-use Web GUI, CLI, and HPE Aruba Networking Switch Multi-Edit Software.
Warranty	5-year warranty See the warranty duration.

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.

GreenLake for Networking

Deliver innovative business outcomes by leveraging new ways to consume, deploy and manage networks.

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

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