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Resources

Intelligent edge extends beyond carpeted spaces

Smart, secure, and reliable connectivity improves productivity and increases safety



Manufacturing



Warehouses



Smart Cities



LPV(Large Public Venue)



Government



Higher-Ed



Agriculture



Transportation



Creating connectivity and IT operational challenges



Connectivity at the Edge

Productivity, automation, and monitoring driving reliance on connectivity extending beyond climate-controlled spaces



Increased Demand

29 billion connected devices forecasted by 2022, with 18 billion will be related to IoT¹



Security Risks

80% of organizations found IoT devices that they did not install or secure²



Silos of operation

75% of organizations use 4 or more network management tools³



Manual Processes

70% of network configurations is done manually⁴



Ericsson, Internet of Things forecast: https://www.ericsson.com/en/mobility-report/internet-of-things-forecast

² Gartner, "Segmentation or Isolation: Implementing Best Practices for Connecting 'All' Devices," September 2019

³ Network Management Megatrends 2018: Exploring NetSecOps Convergence, Network Automation, and Cloud Networking ⁴ Gartner, "5 Network Cost Optimization Opportunities," June 2019

CX Switches: Automation, Intelligence, and Security

Unified Operations

Automated and intelligent configs and unified mgmt with Central

Faster Troubleshooting

Distributed analytics built-in and alerts for AlOps

Always On

Resilient switch architecture for a highly available network

Secure Access

Automated and unified
Dynamic Segmentation for
IoT and users



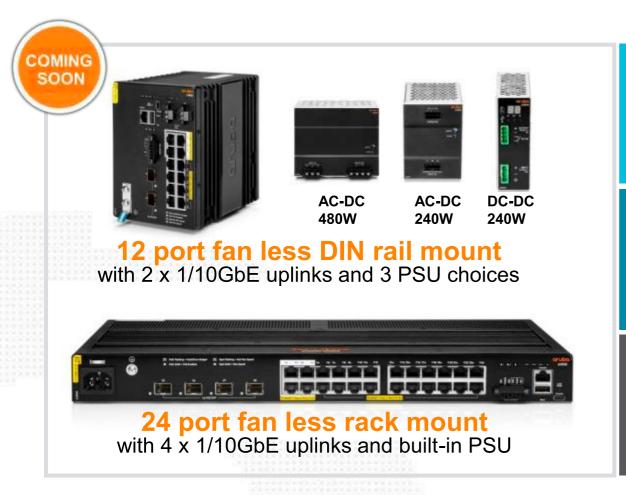
New ruggedized series extends CX innovation to harsh environments

Simplicity from edge access to data center with AOS-CX



Aruba CX 4100i Switch Series

Ruggedized, secure, and smart Ethernet switches



Ruggedized L2 Ethernet

IoT ready

Operational simplicity

DIN rail mount

Rack mount

Extended temperatures (-40C to 70C¹) and IP30

30W and 60W PoE (360W) with high-speed uplinks

Unified role-based access with Dynamic Segmentation

Manage via single pane of glass with Aruba Central²

Advanced configuration and programmability with CX



¹Temperature derated to 50C if non-industrial temperature transceivers are used.

²Central support planned for future release.



a Hewlett Packard Enterprise company

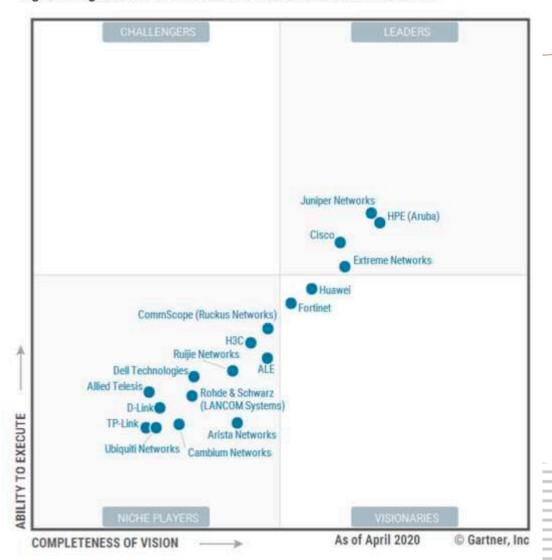
Market Leader 15 Years Running¹

¹ Aruba's 15 years of placement includes HPE (Aruba) in the Magic Quadrant for the Wired & Wireless LAN Access Infrastructure from 2015-2020 (6 years), Aruba Networks in the same Magic Quadrant from 2012-2014 (3 years) and in the Magic Quadrant for Wireless LAN Access Infrastructure from 2006-2011 (6 years).

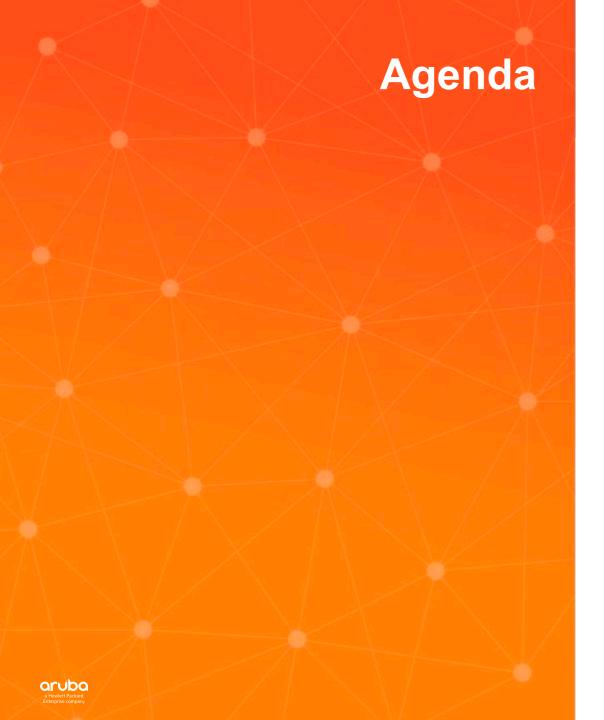
Source: Gartner Magic Quadrant for the Wired and Wireless LAN Access Infrastructure November 2020, Bill Menezes, Christian Canales, Tim Zimmerman, Mike Toussaint ID Number: G00463517

Gartner

Figure 1. Magic Quadrant for Wired and Wireless LAN Access Infrastructure



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Aruba CX 4100i Switch Series

Versatile deployment with ruggedized IP30 Layer 2 access switch series





3 power supplies (external)



- 12 ports 10/100/1000 Base-T
- 2 ports 100/1G/10G SFP+ slots
- Fan-less and IP30
- 4 ports of PoE IEEE 802.3bt (60W/port) and 8 ports of 802.3at PoE (30W/port)
- 3 external PSU choices for up to 360W PoE
- DIN mountable (rack mountable with kit)
- 2 EPS input connections
- PoE Power:
 - Normal (-40°C to +50°C): 360W
 - Derated (+50°C to +70°C):~200W



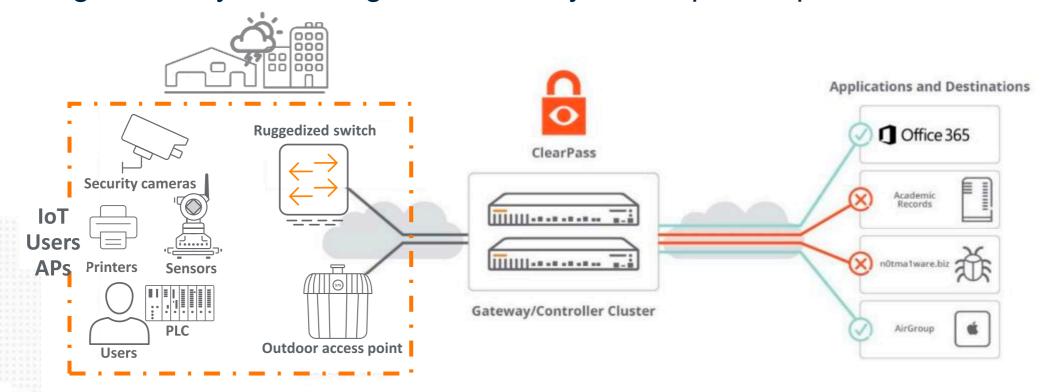
Aruba CX 4100i 24G CL4/6 POE 4SFP+ Switch

- 24 ports 10/100/1000 Base-T
- 4 ports 100/1G/10G SFP+ slots
- Fan-less and IP30
- 4 ports of PoE IEEE 802.3bt (60W/port) and 20 ports of 802.3at PoE (30W/port)
- Internal power supply supporting up to 240W PoE power
- PoE Power:
 - Normal (-40°C to +50°C): 240W
 - Derated (+50°C to +70°C): 160W



Securely add IoT, users, and access points

Extending Aruba Dynamic Segmentation beyond carpeted spaces



AUTOMATED

Save time and reduce misconfigurations

SEGMENTED

Improve traffic separation and security posture

CENTRALIZED

Enhance visibility and management

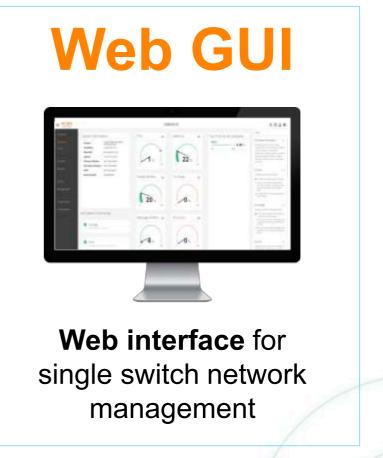


Simplify Operations with a Unified Infrastructure

Unique architecture provides management flexibility with same switch







Central support for CX 4100i planned for future release.



Aruba CX 4100i details

	Feature	Aruba CX 4100i 12G CL4/6 POE 2SFP+ DIN Switch	Aruba CX 4100i 24G CL4/6 POE 4SFP+ Switch	
Platform	Services	Layer 2, static routing		
	Network OS	AOS-CX		
	IP rating	IP30		
	Fanless	Yes		
Environmental	Operating Temperature Range ¹	-40°C to +70°C		
Specs	Humidity	5% to 95%		
	Power Supply	DIN mount external PSU	Internal PSU	
	Power Source	AC and DC	AC	
Connectivity	Access ports	12 x 1GbE	24 x 1GbE	
	10G uplinks	2 x 10GbE SFP	4 x 10GbE SFP	
Power over Ethernet	PoE Budget (max)	360W (with 480W PSU)	240W	
	IEEE 802.3at Class 4 PoE (30W)	8 ports	20 ports	
	IEEE 802.3bt Class 6 PoE (60W)	4 ports (also support 802.3at)	4 ports (also support 802.3at)	
	Always On PoE, Quick PoE	Yes		
Security	ACLS	IPv4, IPv6, VLAN, MAC		
	Dynamic Segmentation	Yes (Local User Roles)		
Management and Automation	Full Programmability	Complete REST APIs		
	Web GUI	Yes		
	CLI	Yes		
	Cloud-based	Aruba Central ²		
	Advanced configs	Central ² Multi-editor mode, Aruba NetEdit		
Licensing and	Licensing	No switch software feature licensing required		
Warranty	Warranty	5 year Warranty - <u>warranty information</u>		

¹Temperature derated to 50C if non-industrial temperature transceivers are used.



²Central support planned for future release.

Aruba CX 4100i DIN rail mount model

Fully manageable, ruggedized Layer 2 access switch



Aruba CX 4100i 12G CL4/6 POE 2SFP+ DIN Switch

- 12 ports 10/100/1000 BaseT
- 2 ports 100/1G/10G SFP+ slots
- Fan-less and IP30
- 4 ports of PoE IEEE 802.3bt (60W/port) and 8 ports of 802.3at PoE (30W/port)
- 3 external PSU choices for up to 360W PoE
- DIN mountable (rack mountable with kit)
- 2 EPS input connections





PoE power budget based on temperature and DC voltage

External PSUs for CX 4100i DIN rail mount model



PoE Power budget	AC-DC 480W PSU	AC-DC 240W PSU	DC-DC 240W PSU
Normal (-40°C to +50°C)	360W	180W	180W @48-55VDC 155W @24VDC 60W@12VDC
Derated (+50°C to +70°C)	~200W	80W	150W@48-55VDC 150W@24VDC 50W@12VDC



Aruba CX 4100i rack mount model

Fully manageable, ruggedized Layer 2 access switch



- 24 ports 10/100/1000 Base-T
- 2 ports 100/1G/10G SFP+ slots
- Fan-less and IP30
- 4 ports of PoE IEEE 802.3bt (60W/port) and 20 ports of 802.3at PoE (30W/port)
- Internal power supply supporting up to 240W PoE power
- PoE Power:
 - Normal (-40°C to +50°C): 240W
 - Derated (+50°C to +70°C): 160W



Aruba CX 4100i accessories

Industrial transceivers, power supplies, rack mount kit

Ruggedized accessories	Specification
1000M SX	Max Transmission distance ~0.5km (OM2) (MMF only)
1000M LX	Max Transmission distance 10km (SMF) Max Transmission distance ~0.5km (MMF)
10GBase-SR	Max Transmission distance ~0.4km (OM4) (MMF only)
10GBase-LR	Max Transmission distance 10km (SMF)
480W DIN AC-DC PSU	DIN Rail Power Supply – 54V 480W 1 Phase AC-DC and 100-240VAC input
240W DIN AC-DC PSU	DIN Rail Power Supply – 54V 240W AC-DC and 12-54VDC input
240W DIN DC-DC PSU	DIN Rail Power Supply – 54V 240W DC-DC and 12-48VDC input
DIN-to-Rack Kit	DIN-to-Rack Mounting Accessory
Industrial trar	nsceiver temperature range: -40C(-40F) to +85C(185F)

Transceiver Warranty: 3yrs



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Aruba CX 4100i Switch Series			
JL817A	Aruba 4100i 12-port 1GbE (8-port Class 4 POE and 4-port Class 6 POE) 2-port SFP+ DIN Mount Switch		
JL818A	Aruba 4100i 24-port 1GbE (20-port Class 4 POE and 4-port Class 6 POE) 4-port SFP+ Switch		
JL819A	Aruba 4000i POE 54VDC 240W 100-240VAC DIN Power Supply		
JL820A	Aruba 4000i POE 54VDC 480W 100-240VAC DIN Power Supply		
JL821A	Aruba 4000i POE 54VDC 240W 12-48VDC DIN Power Supply		
JL822A	Aruba DIN Rail 3RU 19inch Rack Mount Kit		
J9583B	Aruba X414 1U Universal 4-post RM Kit		
JL780A	Aruba 1G I-Tmp SFP LC SX 500m MMF XCVR		
JL781A	Aruba 1G I-Tmp SFP LC LX 10km SMF XCVR		
JL782A	Aruba 10G I-Tmp SFP+ LC SR 300m MMF XCVR		
JL783A	Aruba 10G I-Tmp SFP+ LC LR 10km SMF XCVR		

Availability: September 2021



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Aruba ecosystem

Flexible Consumption



HPE GreenLake for Aruba



HPE Financial Services

Services and Support



Aruba Global Services
Foundation Care for Aruba
and 24x7 TAC



Aruba Professional Services – CX Migration



Community Engagement



ARUBA SOLUTION ANGE

Automation Ecosystem

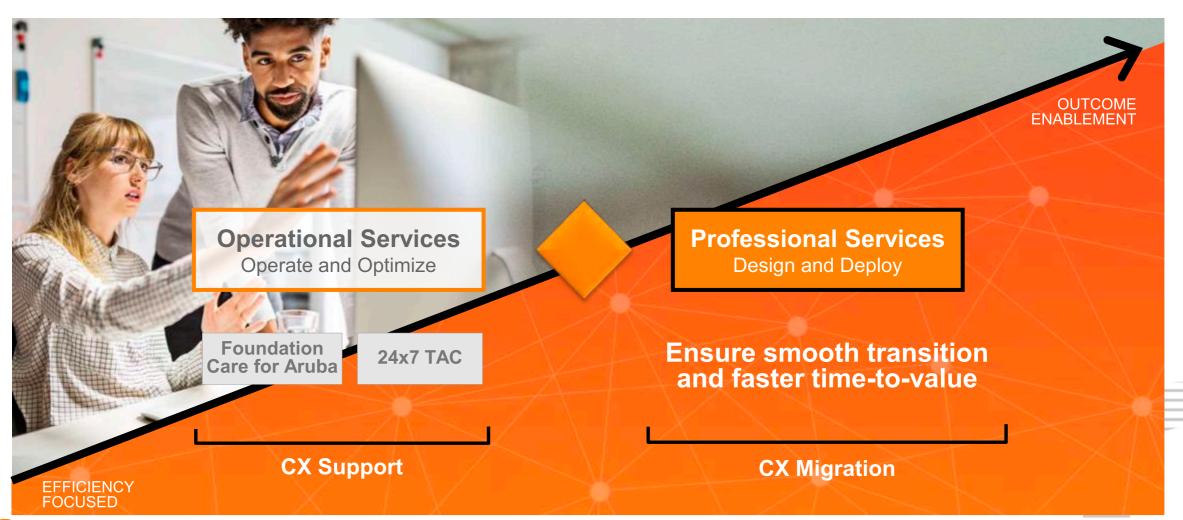




GitHub



Optimize your CX switch experience





Resources

Learn more here

Aruba CX 4100i At A Glance

Aruba Switches

Aruba Software and Hardware Warranties

24x7 Technical Support and Aruba Foundation Care

Software Releases and Documentation





Thank you

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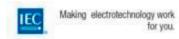
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IEC ingress protection (IP) ratings explained



Ingress protection (IP) ratings guide

IP ratings are represented by combining the first and second digits of the below columns



IP Rating

The IEC has developed the ingress protection (IP) ratings, which grades the resistance of an enclosure against the intrusion of dust or liquids.

The IP code is composed of two numerals:

- The first numeral refers to the protection against solid objects and is rated on a scale from 0 (no protection) to 6 (no ingress of dust).
- The second numeral rates the enclosure's protection against liquids and uses a scale from 0 (no protection) to 9 (high-pressure hot water from different angles).

IEC IP rating information

Aruba CX 4100i - IP30 rating

Protected from tools and wires greater than 2.5 millimeters. Not protected from liquids.