



Hewlett Packard
Enterprise

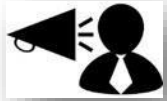
HPE aruba
networking

Aruba Switching NPI – New CX 6300M switch, CX 6400 Modules, and PLM Updates

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April 2024

Before we begin...



- Listen by computer audio or dial-in



- All lines are muted during the webinar



- Ask *questions* by selecting “Q&A” and to report any webinar difficulties



- Webinar is being recorded & will be emailed to all attendees



Agenda

New Aruba CX 6300 Switches

New Aruba CX 6400 Modules

Transceivers

Q&A



HPE Aruba Networking CX Switches – End-to-end portfolio

Always-on Reliability

- HA with ISSU, ESU, HW, SW resiliency
- Proactive analytics

Switching Solution for Any Network

Strong, scalable switching portfolio for branch, campus, mid and large enterprises, SMB, and data center networks

Secure Access

- Dynamic Segmentation
- Campus- branch fabric EVPN/VXLAN
- Aruba NetConductor

Simplified Operations

- Single OS from access to core to DC
- Smart automation for flawless configs with NetEdit
- Built-in analytics with deep visibility and clear alerts
- Management flexibility (Cloud, on-prem, Web GUI, CLI, NetEdit, AFC)
- Unified cloud-based single pane of glass management for wired, WLAN, SD-WAN

HPE Aruba Networking CX Switches



Technology Innovation

- AOS-CX: Programmable, modern, designed to scale access to DC
- NAE: built-in analytics monitor, baseline, troubleshoot
- NetEdit: error-free automated rollouts
- VSX and live upgrade: HA during upgrades
- In-house ASICs: high-performance, programmable agility
- Central: Unified, AI Ops, NetConductor

Faster Troubleshooting

- NAE built-in for monitoring, alerts, troubleshooting and root cause analysis
- Central integration with AI insights

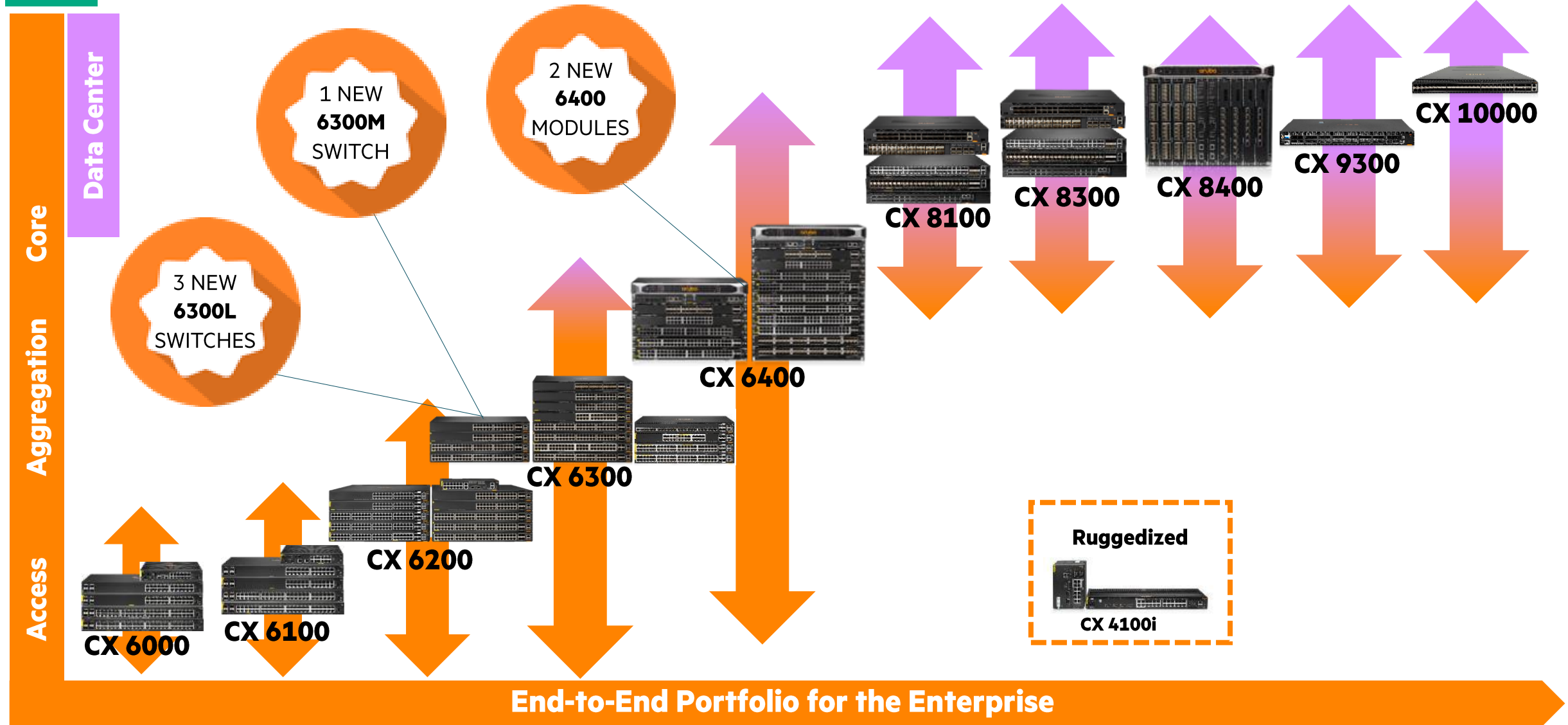
Scalable, High-Performance Enterprise Switching

High-density fixed and modular switches with non-blocking architecture, speeds from **1G to 400G**, extended table sizes, high power PoE, multi-gig, 80 Plus power supplies, fiber and copper transceivers and DACs

Customer First, Customer Last

- Industry leading warranty
- Global support and services
- Consumption choice: GL4A, NaaS
- Financing: HPEFS

HPE Aruba Networking CX Switch portfolio - access to core to data center

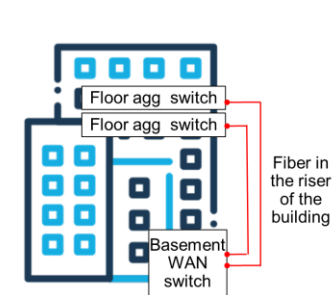


Interesting Use Cases

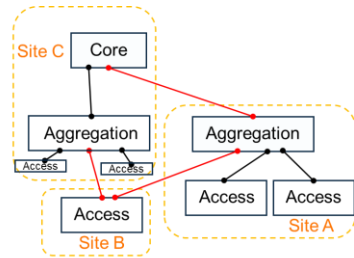
Just some suggestions – there will be more!

Time synchronization support with
precision time protocol (PTP)
boundary clock (BC)
and transparent clock (TC)

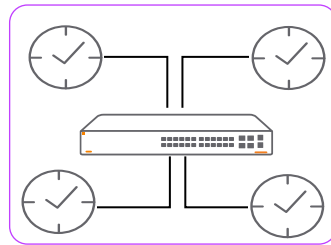
- You may see this marketed as **Wi-Fi 7 ready**, since Wi-Fi 7 could use some or all of the features this switch has like SR10, Class-8 power, MACsec-256.
- Provide **40Gb uplinks for older environments** that are not yet capable of 25, 50 or 100Gb uplinks
- Provide **100Gb uplinks for the newest environments** that are capable of 100Gb uplinks
- **10Gb to the desktop** (CAD, workstations, servers etc) – not as uncommon as you might think
- **PTP and AVB support** (*when available) make this a strong contender for broadcast and video editing environments
- Health including **hospitals** where 10Gb connections to **imaging systems** are required



Customer leasing on several floors of a building (financial vertical)



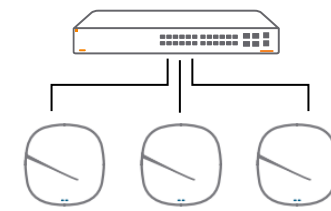
— Potential MacSec links
— Non secured link
Distributed campus (Low density)



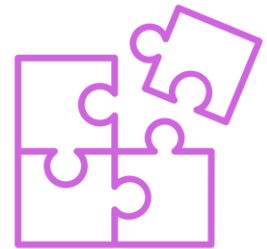
Synchronization and validation across systems



Video conferencing, live stream stadiums, and multimedia consumption



Next-gen 802.3bt enabled wireless access points



Internet of things devices and systems, like smart lighting



Stronger data link layer security with standards-based MACsec 256 encryption and authentication on uplinks and downlinks.

More performance, power, and connectivity options with 10G Smart Rate Multigig and Class 8 (90W) PoE.

New CX 6300M Switch Details

HPE Aruba Networking CX 6300M 48-port SR PoE Switches Overview

S0E91A and S0X44A (TAA) Switches

Aruba 6300M 48SR10 CL8 PoE 4p100G Switch

S0E91A



Bandwidth and Port Speeds

Downlink : 48P x SR10 (1/2.5/5/10G) Base-T Class 8 PoE

Uplink : 4P x 100G QSFP28

PoE Power

Max 2640W – up to 90W x any 29 Down link ports PoE Class 8

Max 2640W – up to 60W x any 44 Down link ports PoE Class 6

Operating temperature

- 32°F to 113°F (0°C to 45°C) up to 5000 ft
- Derate -1°C for every 1000 ft from 5000 ft to 10000 ft
- Short term excursion supported, up to 55 °C at sea level

Cooling, Fans and PSUs

- 3 Fan Trays with 6 Fan rotors for optimal acoustic level
- Front & Sides to Back airflow (non-configurable)
- Intelligent and Efficient thermal management
- Modular Fan Trays and PSUs (customer replaceable)

Weight (with 2 JL670A) and Dimensions (W x D x H)

20.86 lb (9.46 kg) / 17.43 x 18.58 x 1.73 in (44.25 x 47.19 x 4.39 cm)

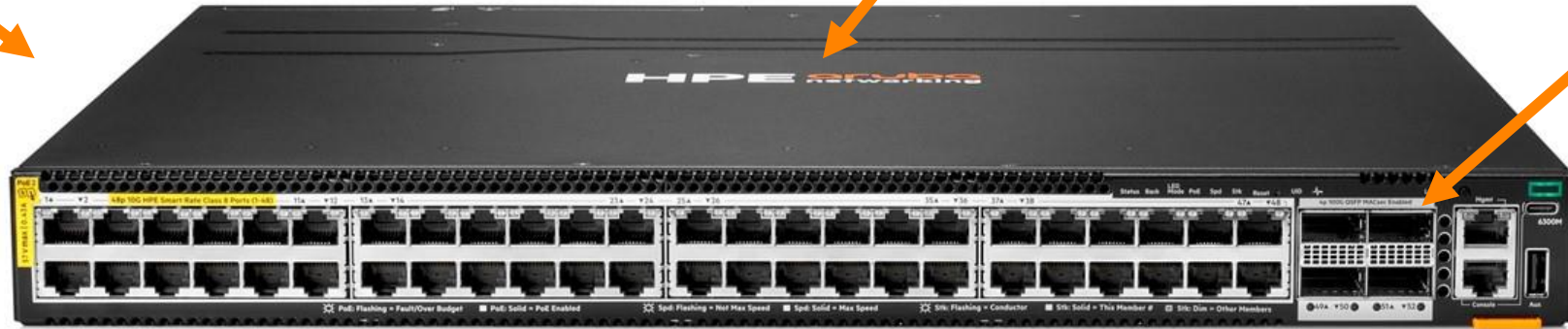
New CX 6300 Switch – S0E91A Model Callouts



High performance switching with 1760 Gbps switching capacity, 1310 Mpps of throughput and up to 400 Gbps stacking bandwidth

Wi-Fi 6 and 7 Ready with 48 1G/2.5G/5G/10G Smart Rate Multi-gigabit ports, MACsec256, and always-on Class 8 PoE (up to 90W, 2640W budget)

CX 6300M
w/ Modular Power & Fans



HPE Aruba Networking CX 6300M 48p SR10 PTP/AVB Class8 PoE 4p 100G MACsec Switch (S0E91A)

Four built-in SFP slots supporting MACsec256 and uplink speeds of up to 10G, 25G, 40G, and 100G

High availability with VSF, field-replaceable, hot-swappable power supplies and fans

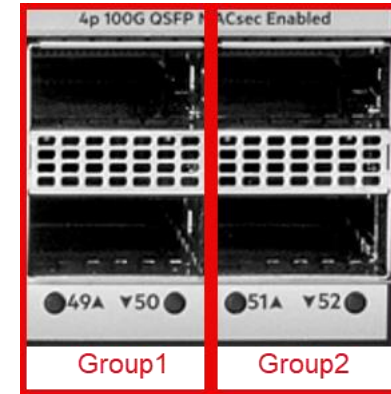
10-Unit VSF Stacking with flexibility to mix modular 6300M and fixed 6300F models in a single stack using QSFP56-SFP56 DAC cable

Management Ports include RJ-45 and USB-C Console Ports, OOBM port and USB Type-A Host port; a Bluetooth adapter is orderable for use with the Aruba CX Mobile App

New model in the CX 6300 Switch Series



1. A new L3 modular power 48p Class 8 PoE switch with SR10 downlinks, 4x 100G uplinks, and MACsec 256 and PTP applied to all network ports
2. Discrete TAA model variant of the same switch
3. New QSFP DAC cables (0.65m and 3m) for VSF stacking



```
Bldg1-Acc-6300(config)# system interface-group
1 Interfaces 1/1/49-1/1/50 (S0E91A, S0X44A)
2 Interfaces 1/1/51-1/1/52 (S0E91A, S0X44A)
Bldg1-Acc-6300-VSF(config)# system interface-group 1 speed
40g Allow 10Gbps, 40Gbps, and 50Gbps transceivers only
100g Allow 25Gbps, 50Gbps, and 100Gbps transceivers only (default)
```



New CX 6300 Switch - S0E91A Model Callouts

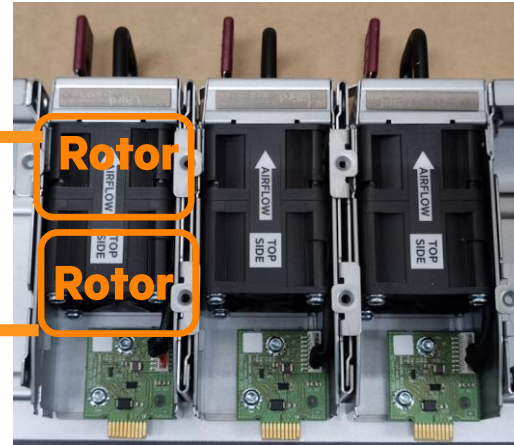
Rear Panel Features



- a. System Status LED
- b. Locator LED
- c. Fan Tray status LEDs
- d. PSU fans
- e. C16 PSU AC inlet sockets
- f. PSU Status indicators LEDs
- g. Serial number label
- h. MAC address label

The Fan tray can have single Fan rotor or both rotors faulted.

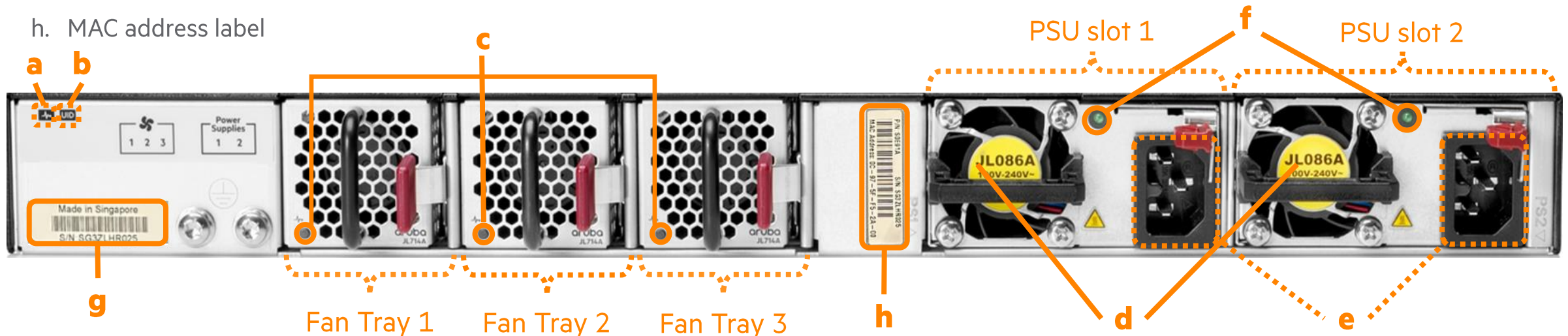
FT3 FT2 FT1



NEW



Prior 6300M Models



CX 6300 Switch Series Power and Connectivity

Power APs and IoT, reduce access layer bottlenecks, and accelerate aggregation links to the core.

CX 6300 Switch Models	Access Ports	Uplink Ports	PoE (Power budget)
Aruba 6300F 24-port 1GbE and 4-port SFP56 Switch	24 x 1GbE	4 x 1/10/25GbE	-
Aruba 6300F 24-port 1GbE Class 4 PoE and 4-port SFP56 Switch	24 x 1GbE	4 x 1/10/25GbE	30W per port (370W)
Aruba 6300F 48-port 1GbE and 4-port SFP56 Switch	48 x 1GbE	4 x 1/10/25GbE	-
Aruba 6300F 48-port 1GbE Class 4 PoE and 4-port SFP56 Switch	48 x 1GbE	4 x 1/10/25GbE	30W per port (720W)
Aruba 6300M 24-port 1GbE and 4-port SFP56 Switch	24 x 1GbE	4 x 1/10/25GbE	-
Aruba 6300M 24-port 1GbE Class 4 PoE and 4-port SFP56 Switch	24 x 1GbE	4 x 1/10/25GbE	30W per port (720W)
Aruba 6300M 24-port SFP+ and 4-port SFP56 Switch	24 x 1/10GbE	4 x 1/10/25GbE	-
Aruba 6300M 24p SFP+ LRM support and 2p 50G and 2p 25G MACSec Switch	24 x 1/10GbE	2 x 1/10/25/50GbE 2 x 1/10/25GbE	-
Aruba 6300M 24-port HPE Smart Rate 1/2.5/5GbE Class 6 PoE and 4-port SFP56 Switch	24 x SR5	4 x 1/10/25GbE	60W per port (1440W)
Aruba 6300M 24p HPE Smart Rate 1G/2.5G/5G/10G Class 6 PoE and 2p 50G and 2p 25G Switch	24 x SR10	2 x 1/10/25/50GbE 2 x 1/10/25GbE	60W per port (2880W)
Aruba 6300M 48-port 1GbE and 4-port SFP56 Power-to-Port 2 Fan Trays 1 PSU Bundle	48 x 1GbE	4 x 1/10/25GbE	-
Aruba 6300M 48-port 1GbE and 4-port SFP56 Switch	48 x 1GbE	4 x 1/10/25GbE	-
Aruba 6300M 48-port 1GbE Class 4 PoE and 4-port SFP56 Switch	48 x 1GbE	4 x 1/10/25GbE	30W per port (1440W)
Aruba 6300M 48-port HPE Smart Rate 1/2.5/5GbE Class 6 PoE and 4-port SFP56 Switch	48 x SR5	4 x 1/10/25GbE	60W per port (2880W)
Aruba 6300M 12p Class 8 PoE and 36p Class 6 PoE HPE Smart Rate 1G/2.5G/5G and 2p 50G and 2p 10G Switch	48 x SR5	2 x 1/10/25/50GbE 2 x 1/10GbE	60W, 90W per port (2880W)
Aruba 6300M 48p HPE Smart Rate 1G/2.5G/5G Class 8 PoE and 2p 50G and 2p 25G Switch	48 x SR5	2 x 1/10/25/50GbE 2 x 1/10/25GbE	90W per port (2880W)
HPE Aruba Networking CX 6300M 48p SR10 PTP/AVB Class8 PoE 4p 100G MACsec Switch	48 x SR10	4 x 1/10/25/40/100 GbE	90W per port (2640W)
HPE Aruba Networking CX 6300M 48p SR10 PTP/AVB Class8 PoE 4p 100G MACsec TAA Switch	48 x SR10	4 x 1/10/25/40/100 GbE	90W per port (2640W)

Class8 power (90W) on all 48 ports (max power budget 2640W)

CX 6300 Ordering Information

New SKUs and common/shared SKUs shown



SKU	Long Description
S0E91A	HPE Aruba Networking CX 6300M 48p SR10 PTP/AVB Class8 PoE 4p 100G MACsec Switch
S0X44A	HPE Aruba Networking CX 6300M 48p SR10 PTP/AVB Class8 PoE 4p 100G MACsec TAA Switch
S1J07A	HPE Aruba Networking 50G QSFP56 to SFP56 0.65m DAC Cable
S1J08A	HPE Aruba Networking 50G QSFP56 to SFP56 3m DAC Cable
JL714A	HPE Aruba Networking X741 Front to Back Fan Tray (2 x fans per tray)
JL086A	Aruba X372 54VDC 680W PS (POE; shared with 6200M, 6300M, 3810M, 2930M)
JL087A	Aruba X372 54VDC 1050W PS (POE; shared with 6200M, 6300M, 3810M, 2930M)
JL670A	Aruba X372 54VDC 1600W PS (POE; shared with 6300M)
JL758A	Aruba CX 6300M 1050W 36-72VDC Input PoE Power Supply
S0T76AAE	Aruba CX Soft 63xx Sw Adv 10y E-LTU
S0T77AAE	Aruba CX Soft 63xx Sw Adv 1y E-LTU
S0T78AAE	Aruba CX Soft 63xx Sw Adv 3y E-LTU
S0T79AAE	Aruba CX Soft 63xx Sw Adv 5y E-LTU
S0T80AAE	Aruba CX Soft 63xx Sw Adv 7y E-LTU
<i>Most transceivers are also common across the CX range – confirm in Quickspecs/Data Sheets/IRIS</i>	



Shared SKUs

These have been renamed to
Feature Packs



New CX 6300M switch is in IRIS now!

And IRIS is updated to show all the transceiver and linkage options



Properties

6300 Switch Series | CX Software | QSFP28 Ports | Fan and Power Options | Related Products | Related Services | Accessories | Attributes | Messages

HPE ANW 6300M 48SR10 CL8 PoE 4p 100G Switch [S0E91A]

The HPE Aruba Networking 6300 Switch Series is a modern, flexible and intelligent family of stackable switches ideal for enterprise network access, aggregation and core. Created for game-changing operational efficiency with built-in security and resiliency, the 6300 switches provide the foundation for high-performance networks supporting IoT, mobile and cloud applications.

Built from the ground up with a combination of cutting-edge hardware, software and analytics and automation tools, the stackable 6300 switches are part of the HPE ANW CX switching portfolio, designed for today's enterprise campus, branch and data center networks. By combining a modern, fully programmable OS with the Aruba Network Analytics Engine, the 6300 switches provide industry leading monitoring and troubleshooting capabilities for the access layer.

Select Model

48-port | PoE | Smart Rate ▾ 4 Matching Results Found

6300M Switches:

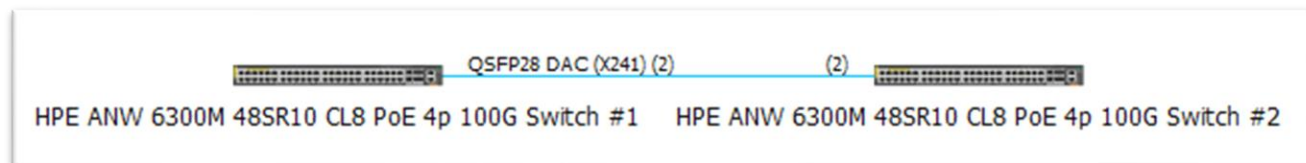
- 6300M 48SR5 12p CL8 36p CL6 PoE 2SFP56 2SFP+ 12 Class 8 PoE and 36 Class 6 PoE HPE Smart Rate 100M/1/2.5/5GbE MACsec ports, 2 SFP56 ports, 2 SFP+ LRM MACsec ports, 2 open power supply slots, Includes 2x JL669B Aruba 6300M Fan Trays. [R8S91A \$19,949]
- 6300M 48SR5 CL6 PoE 4SFP56 48 HPE Smart Rate 100M/1/2.5/5GbE Class 6 PoE ports, 4 SFP56 ports, 2 open power supply slots, Includes 2x JL669B Aruba 6300M Fan Trays. [JL659A \$18,979]
- 6300M 48SR5 CL8 PoE 2SFP56 2SFP28 48 HPE Smart Rate 100M/1/2.5/5GbE Class 8 PoE MACsec ports, 2 SFP56 ports, 2 SFP28 MACsec ports, 2 open power supply slots, Includes 2x JL669B Aruba 6300M Fan Trays. [R8S90A \$21,529]
- 6300M 48SR10 CL8 PoE 4p 100G** 48 HPE Smart Rate 1/2.5/5/10GbE Class 8 PoE ports, 4 QSFP28 ports, 2 open power supply slots, Includes 3x JL714A Aruba X741 Port to Power Fan Trays. [S0E91A \$23,499]

TAA compliance

TAA compliance TAA versions are available worldwide.

Connectivity Notes

- The four ports support all of the 40Gb and 100Gb products (including DACs and AOCs)
- QSFP28 to SFP28 Adapter (QSA) is supported for single 10 or 25Gb optics/AOCs
- Other than the QSA, split ports are not supported (at this time – no committed date to allow for this)
- The “special” DAC does the conversion from 100Gb to 50Gb
- It is possible to stack just the new models with 100Gb (or 40Gb) DACs, AOCs or optics



Aruba CX 6300 Upgrade Benefits

Feature		Legacy HP 3800	Legacy Aruba 3810	CX 6300	Upgrade Benefit
Platform	Deployment Model	Access	Access	Access	Simplicity of single operating model from edge access to data center
	Operating System	Aggregation	Aggregation	Aggregation and Core, ToR	
	Microservices-based Architecture	AOS-Switch	AOS-Switch	Cloud-native AOS-CX	
	ASIC	No	No	Yes	
	Network State & Time Series Database	Aruba Gen5	Aruba Gen6	Aruba Gen7 with VOQ	
Scale Performance Flexibility	Switching Capacity	176 Gbps	480 Gbps	880 Gbps	Future-proof Networking with on-demand growth
	Smart Rate (1/2.5/5GbE) ports	No	12	48	
	Smart Rate (1/2.5/5/10GbE) ports	No	No	48	
	10G ports	4	24	28	
	25G ports	No	No	Four 1/10/25/50G combo ports, Four 10/25/40/100G combo ports	
	40G ports	No	2		
	50G ports	No	No		
	PoE Power Budget	1080W	1440W	2880W	
High Power PoE (60W, 90W)	No	No	Yes		
High Availability	Hot-swappable power supplies+ fans	Yes	Yes	Yes	High Availability from edge access to data center
	Stacking	Backplane	Backplane	VSF	
	Always-on PoE	No	No	Yes	
Security with Segmentation	Aruba Dynamic Segmentation	No	Yes	Yes	Unified Role-based security from edge access to data center
	VXLAN (with MP-BGP EVPN)	No	No	Yes	
Analytics and Automation	Full Programmability	No	No	Complete REST APIs	Enhanced visibility and simplified operations
	Distributed Analytics	No	No	NAE embedded analytics/switch	
	Advanced configuration management	No	No	NetEdit	
Licensing and Warranty	Software & Subscriptions	No software feature licensing required		AOS-CX Software included with no subscription required to enable. Optional CX Advanced Feature Pack available in 1/3/5/7/10yr terms	TCO value with no hidden costs, or forced licenses
	Warranty	Limited Lifetime Warranty - https://www.arubanetworks.com/assets/support/networking-warranty-summary.pdf			

CX 6200 to 6300 Upsell

Feature		CX 6200F	CX 6200M	CX 6300F	CX 6300M
Platform	Deployment Model	Access	Access	Access, Aggregation, ToR	Access, Aggregation, ToR
Network services	Routing	Layer 3, OSPF (single area) static routing, IGMP/MLD Snooping	Layer 3, OSPF (single area) static routing, IGMP/MLD Snooping	Advanced Layer 2/3 Route-only Ports, L3 lags, OSPF, BGP + EVPN, PBR, PIM-SM, PIM-DM	Advanced Layer 2/3 Route-only Ports, L3 lags, OSPF, BGP + EVPN, PBR, PIM-SM, PIM-DM
	Scalability	VLAN: 2K	VLAN: 2K	VLAN: 4K	VLAN: 4K
Scale Performance Flexibility	Switching Capacity	Up to 176 Gbps	Up to 272 Gbps	Up to 880 Gbps	Up to 1760 Gbps
	Smart Rate multi-gigabit	No	12 ¹	No	48
	1G ports	12p: 2 24p/48p: 4	No	No	No
	10G ports	12p: 2 24p/48p: 4	4	4	48 + 4
	25G/40G/50G/100G ports	No	No	Four 1/10/25/50 combo ports	Four 1/10/25/40/50/100 combo ports
	Max PoE	Up to 740W	Up to 1440W	Up to 740W	Up to 2880W
	High Power PoE (802.3bt)	No	Yes, up to 60W/port	No	Yes, up to 90W/port
High Availability	Hot-swappable PSUs + fans	No	Yes	No	Yes
	Stacking (VSF)	(8) ²	(8)	(10)	(10)
	Always-on PoE and Quick PoE	Yes	Yes	Yes	Yes
	MACsec 256 Encryption	No	Yes	No	Yes
Security with Dynamic Segmentation	User Based Tunnels (UBT)	Data Plane: GRE Control Plane: AOS PAPI	Data Plane: GRE Control Plane: AOS PAPI	Data Plane: GRE Control Plane: AOS PAPI	Data Plane: GRE Control Plane: AOS PAPI
	Virtual Network Based Tunnels (VNBT)	Data Plane: VXLAN Control Plane: Static (L2 Flood & Learn)	Data Plane: VXLAN Control Plane: Static (L2 Flood & Learn)	Data Plane: VXLAN Control Plane: Static & Dynamic (BGP eVPN)	Data Plane: VXLAN Control Plane: Static & Dynamic (BGP eVPN)
	REST API	Full Support	Full Support	Full Support	Full Support
	Distributed Analytics	NAE	NAE	NAE	NAE
Analytics and Automation	Advanced configuration mgmt.	NetEdit	NetEdit	NetEdit	NetEdit
Software and Warranty	Software & Subscriptions	AOS-CX Software included with no subscription required to enable		AOS-CX Software included with no subscription required to enable. Optional CX Advanced Feature Pack available in 1/3/5/7/10yr terms	
	Warranty	Limited Lifetime Warranty - https://www.arubanetworks.com/assets/support/warranty-summary.pdf			

¹R8Q71A and R8V12A Only

²R8Q72A and R8V13A will only stack with other R8Q72A and R8V13A units; 10G uplink ports recommended for stacking

Competitive Comparison

Blue: Competitive Advantage
Red: Watch these; have responses ready

Feature	HPE Aruba Networking	Catalyst C9300X-48HX	Juniper EX4400
Routing	Full Layer 3	Full Layer 3 MPLS Licensing/Subscription	Full Layer 3 MPLS Licensing/Subscription
Stacking	VSF front plane stacking up to 10 members (up to 400G of Stacking BW)	Backplane stacking up to 8 members; no inter-stacking with Fixed models (up to 1TB of Backplane BW, 480Gbps with mixed stack)	Backplane stacking up to 10 members
Switch Variants	Modular	Modular	Modular
Ports and HW Features	<ul style="list-style-type: none"> 48 ports Smart Rate 10 Fixed: 4x10G/25G/40G/100G uplinks, QSFP28 to SFP56 (Special DAC) for stacking MACsec, PTP/AVB Class 8 POE 	<ul style="list-style-type: none"> 48 ports mGig 10 Modular 10, 25, 40, 100G uplinks 4x100G NM → 4 x 40G/100G 2x100G NM → 2 x 40G/100G 8x25G NM → 8 x 10G/25G Class 8 POE MACsec PTP 	<ul style="list-style-type: none"> 12ports mGig 10 + 36ports mGig 2.5G Modular 2x100G and 4 10/25G uplinks Class 8 POE
MACsec 256	Yes (SW incl. in base product)	Yes (On Advantage only)	Yes (Separate MACsec license)
Power Systems	System Power HA, POE Budget 2640W (29p of 90W, 44p of 60W)	System and PoE HA, 3290W POE Budget (36p of 90W, 48p of 60W)	System and PoE HA 2200W
Requires License	No	Yes (subscription)	Yes (perpetual or subscription)
Network Management	Central, NAE, NetEdit	DNA	Mist
Warranty	Limited Lifetime (5 years after ES)	Enhance Limited Lifetime (5 years after ES)	Enhance Limited Lifetime (5 years after ES)



CX 6300 Frequently Asked Questions

Will new CX 6300M models inter-stack with current CX 6300 fixed and modular models?

Yes, but it will require the QSFP28-SFP56 DAC cable to stack with other CX 6300 switches OR QSFP28 to SFP28 Adapter to downshift to 10/25 Gbps (transition plan until 50 Gbps support is available through the custom DAC cable)

Is 50G uplink supported on the new switches?

No – QSFP28 to SFP56 is meant for stacking purposes only

What are the price points for the new switches?

Always check with your local seller for the latest prices.

WW reference pricing for S0E91A is \$23,499, and S0X44A TAA model is \$24,699

Why is there a discrete TAA SKU for the new 6300M model?

The new CX 6300M switch has models that are manufactured in Taiwan (for United States) and China (for rest of world); TAA models are manufactured in Taiwan (a TAA compliant country) for customers that require models manufactured outside of China.

Will the new CX 6300M models have LRM and MACsec?

MACsec 256 is available on all uplink and downlink ports. LRM is not supported on these switches.

What is the minimum AOS-CX release that supports the new 6300M models?

10.13.1000

In which release of Central will the new switches be supported?

Central 2.5.8

What is the availability of the new 6300M switches?

GA (General Availability) from 6-Nov-2023.

Supply chain ramp expected to begin late February 2024.

HPE Aruba Networking CX 6300M 48-port SR10 PoE Switches Known Limitations

Below are the known Hardware limitations for Aruba 6300M switches:

Item	Limitations
1	Max available PoE power is not 2880W but 2640W. The S0E91A and S0X44A are not able to deliver all 48 ports of PoE power at one time for either 60W or 90W
2	S0E91A and S0X44A need to stack to other 6300 SKUs via 45970-B21 QSFP28 to SFP28 adapter because the uplink ports are QSFP28 instead of SFP56 (prior generations)
3	S0E91A and S0X44A do not support power to port air flow direction
4	S0E91A and S0X44A are 17.5inches in depth instead of 15inches like other 6300M SKUs
5	S0E91A and S0X44A do not support LRM 10G transceivers
6	No mixed speed port groups within ports P49/P50 and P51/P52
7	No support 10M BASE-T on Down link ports
8	Stacking not supported over 40G speed group(non-default)



3 New HPE Aruba Networking CX 6300 Layer2 only SKUS



SKU	Product Description
S3L75A	HPE Aruba Networking 6300L 24p Smart Rate 1G/2.5G/5G/10G Class6 PoE 2p 50G and 2p 25G L2 Switch
S3L76A	HPE Aruba Networking 6300L 48p Smart Rate 1G/2.5G/5G Class8 PoE 2p 50G and 2p 25G L2 Switch
S3L77A	HPE Aruba Networking 6300L 48p Smart Rate 1G/2.5G/5G Class8/6 PoE 2p 50G and 2p 10G LRM L2 Switch

High performance switching with 880 Gbps switching capacity, 580 Mpps of throughput and up to 200 Gbps stacking bandwidth

High availability with VSF*, field-replaceable, hot-swappable power supplies and fans

Management Ports include RJ-45 and USB-C Console Ports, OOBM port and USB Type-A Host port; a Bluetooth adapter is orderable for use with the Aruba CX Mobile App

Wi-Fi 6 and 7 Ready with 1G/2.5G/5G/10G Smart Rate Multi-gigabit ports, MACsec256, and always-on Class 8 PoE (up to 90W, 2880W budget)

10-Unit VSF Stacking supported among CX 6300L switches

LRM support for 10G SFP uplink ports

Layer 2 Software Feature Support

Use Cases: Education and Hospitality segments where only Layer2 features are needed at access layer at CX 6300 scale.

*VSF supported only among 6300L SKUS

Feature Support for 6300L SKUs

Features Supported	Features Not Supported
Layer 2 only Features	Layer3 Features set (PIM, IGMP)
Static Routing	Dynamic Routing(OSPF, BGP, etc)
Dynamic Segmentation(UBT)	VxLAN EVPN
Layer 2 and Layer 3 ACL and Policies	ACL and Policies on sub-interface
SVI	sub-interface, ROP, loopback
Default and Management VRF	additional VRF config
sFlow	IPFIX
VSF only between 6300L	Mixed stacking with 6300M and 6300F

6300L Switches:

- 6300L 24SR10 CL6 PoE 2SFP56 2SFP28 NEW
24 HPE Smart Rate 100M/1/2.5/5/10GbE Class 6 PoE ports, 2 SFP56 ports, 2 SFP28 ports, 2 open power supply slots, 1 open fan tray. Includes 2x JL669B 6300M Fan Tray. [S3L75A \$16,299]
- 6300L 48SR5 CL8 PoE 2SFP56 2SFP28 NEW
48 HPE Smart Rate 100M/1/2.5/5GbE Class 8 PoE ports, 2 SFP56 ports, 2 SFP28 ports, 2 open power supply slots, 1 open fan tray. Includes 2x JL669B 6300M Fan Tray. [S3L76A \$18,299]
- 6300L 48SR5 12p CL8 36p CL6 PoE 2SFP56 2SFP+ NEW
48 HPE Smart Rate 100M/1/2.5/5GbE Class 8 PoE ports, 2 SFP56 ports, 2 SFP+ LRM ports, 2 open power supply slots, 1 open fan tray. Includes 2x JL669B 6300M Fan Tray. [S3L77A \$16,999]

General Availability (4/1/2024)
First Customer Shipment (6/21/24) *
Minimum Required Firmware (10.14.0001)



* Estimated based on current project status

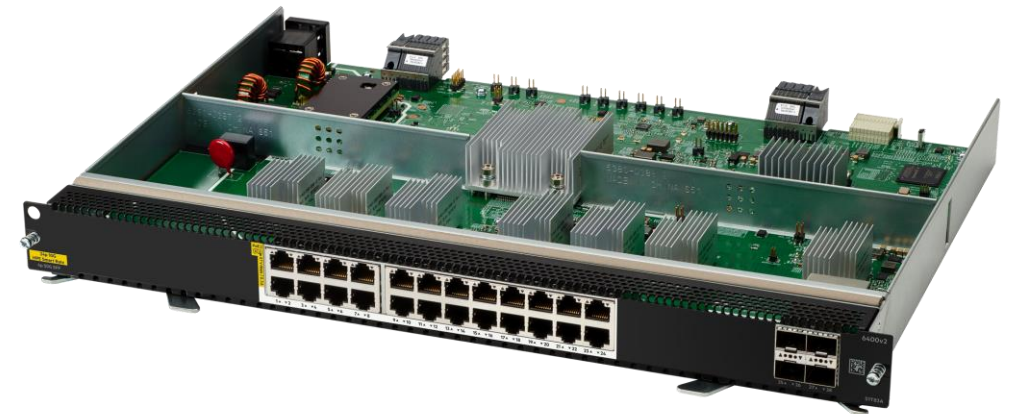
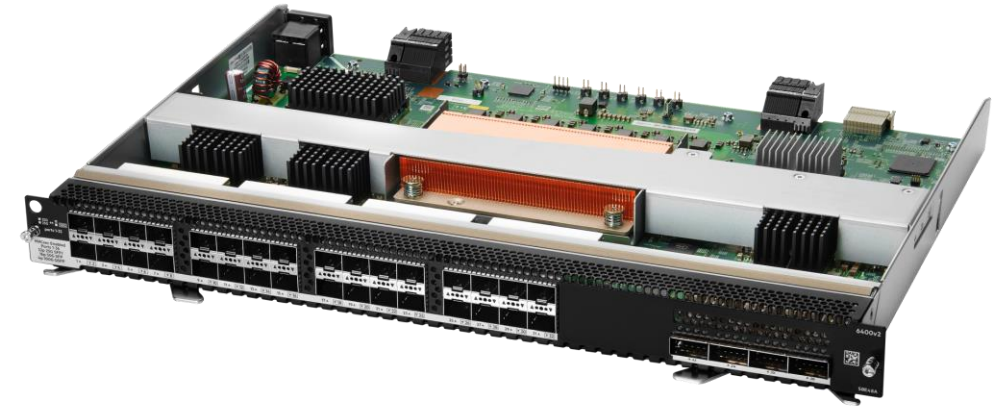
New CX 6400 modules

New 6400 v2 modules overview

Introducing two new CX 6400 v2 line cards:

- 32-port 25G MACsec and 4-port 100G MACsec with extended table size
- 24-port Smart Rate 1/2.5/5/10G Class 8 PoE with 4-port 50G SFP56

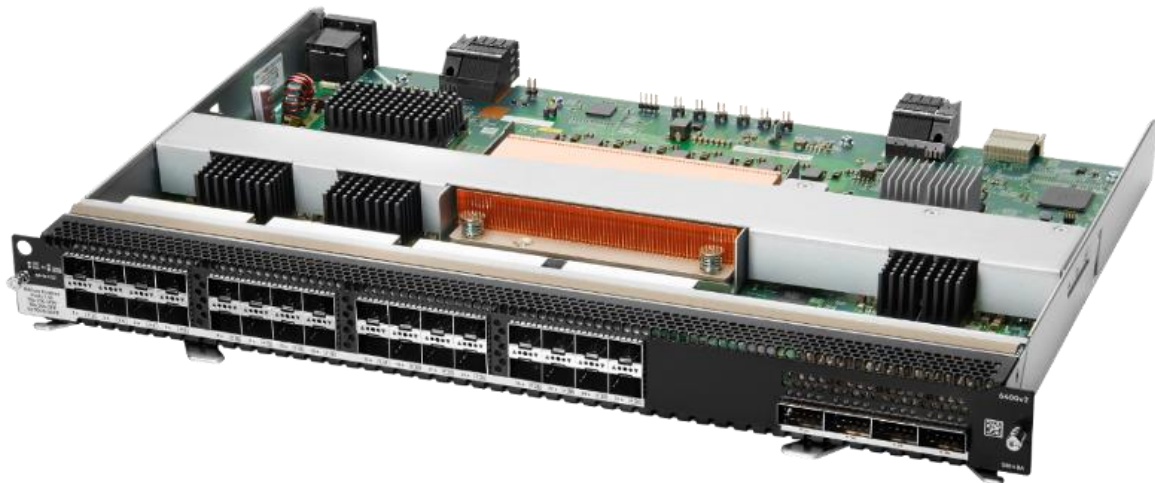
These new line cards will improve competitiveness with other vendors' chassis-based platforms by enabling high-density MACsec aggregation solutions and premium access applications requiring high-power PoE and multi-gigabit up to 10Gbps



Aruba CX 6400v2 — S0E48A Module Overview

HPE Aruba Networking CX 6400 v2 32p SFP28 25G 4p QSFP28 100G MACsec Extended Tables Module

S0E48A



Bandwidth and Port Speeds

Downlink : 32P x 25G SFP or 16P x 50G MACsec SFP ¹

Uplink : 4P x 100G QSFP28

Power consumption

513W

CPU and memory

1.8GHz quad-core ARM Cortex-A72 CPU with 8GB DDR4 ECC memory

Packet buffer

32MB

Dimensions (W x D x H)

17.3 × 12.4 × 1.7 in (43.9 × 31.5 × 4.3 cm)

Weight

9.4 lbs

¹ 50G port speed and transceivers/cables not supported at initial release

Aruba CX 6400v2 — S1T83A Module Overview

HPE Aruba Networking CX 6400 v2 24p Smart Rate 1G/2.5G/5G/10G Class8 PoE 4p SFP56 50G Module

S1T83A



Bandwidth and Port Speeds

Downlink : 24P x SR10 (1/2.5/5/10G) Base-T Class 8 PoE

Uplink : 4P x 50G SFP56

Power consumption

240W (does not include PoE)

PoE Power

Max 2160W – up to 90W x 24 downlink ports PoE Class 8

CPU and memory

1.8GHz quad-core ARM Cortex-A72 CPU with 8GB DDR4 ECC memory

Packet buffer

16MB

Dimensions (W x D x H)

17.3 × 12.4 × 1.7 in (43.9 × 31.5 × 4.3 cm)

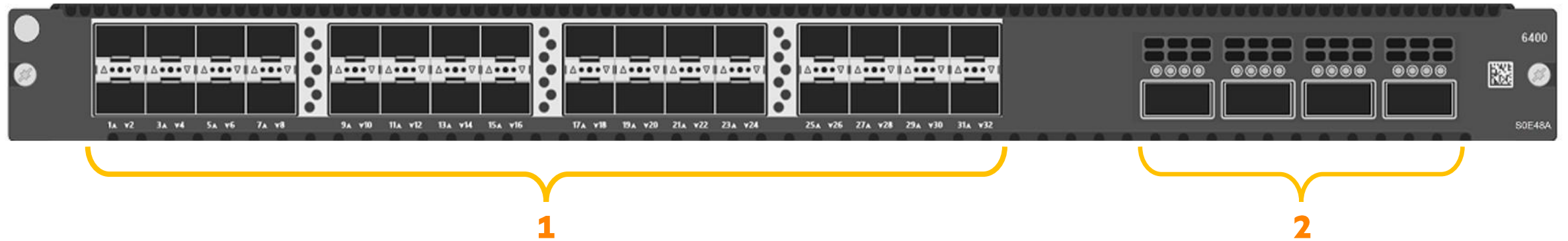
Weight

7.3 lbs

Aruba CX 6400 v2 - S0E48A Module Details

Front Panel Ports and Features

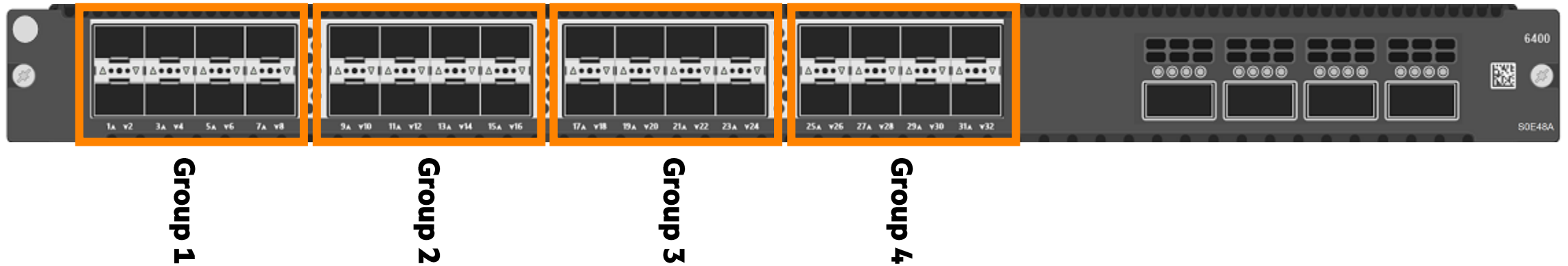
1. 32 x 25G SFP28 MACsec downlink ports
 - a. Bottom row ports configurable to 50G¹ with top row ports disabled
2. 4 x 100G QSFP28 MACsec uplink ports



¹ 50G port speed and transceivers/cables not supported at initial release

Aruba CX 6400 v2 - S0E48A Module Details

Interface groups

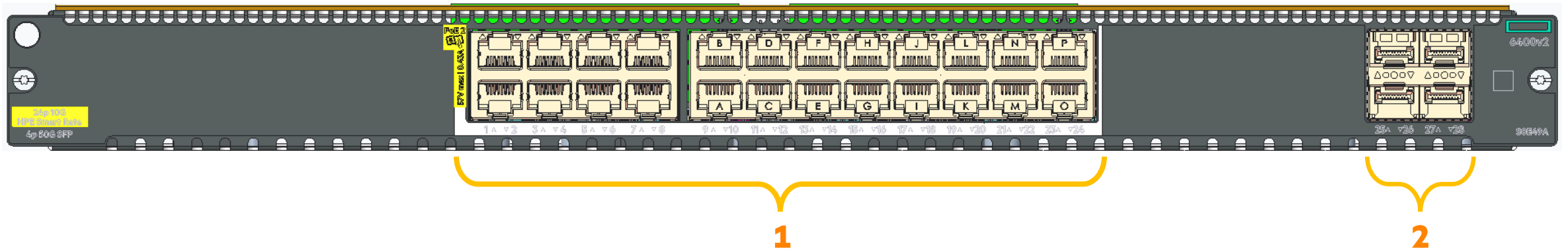


- The S0E48A module assigns the 32 downlink ports into four interface groups of 8 ports each
- Each group can be configured to one of three speeds:
 - 10G only
 - 25G only
 - 50G only — bottom row only, with top row ports in the group disabled
 - 50G speed is **not supported** for initial software release

Aruba CX 6400 v2 – S1T83A Module Details

Front Panel Ports and Features

1. 24x 1/2.5/5/10G Smart Rate Class 8 PoE (90W) downlink ports
2. 4x 1/10/25/50G SFP56 uplink ports



S0E48A Operating Notes & Limitations

- Port speeds and operating modes:
 - 100M and 1G transceivers and cables are **not supported** and will not function even with UTM enabled
 - 50G port speeds, transceivers, and cables are **not supported** in the initial software release (10.13.1010)
 - A warning message will be displayed when any interface group is configured for 50G speed, and 50G transceivers and cables will be flagged by the system as unsupported
 - Interface groups operate *only* at the configured speed (10G, 25G, or 50G) in the initial software release
 - This differs from R0X44C, which has two interface group speed definitions: 25G (which enables all supported speeds *up to* 25G) and 50G



Ordering Information for Aruba CX 6400 Switch Series Modules

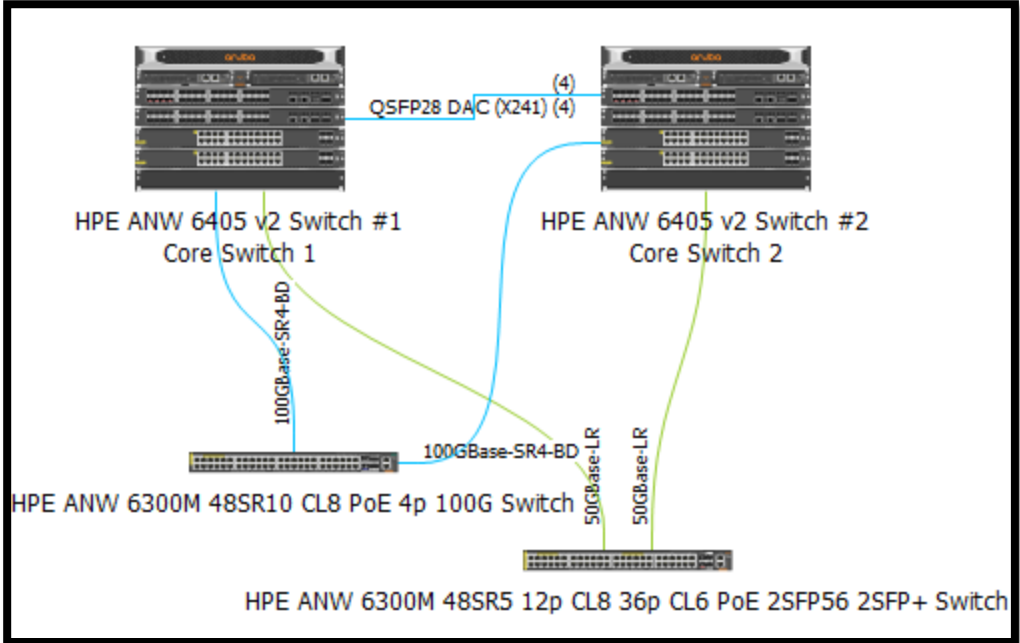
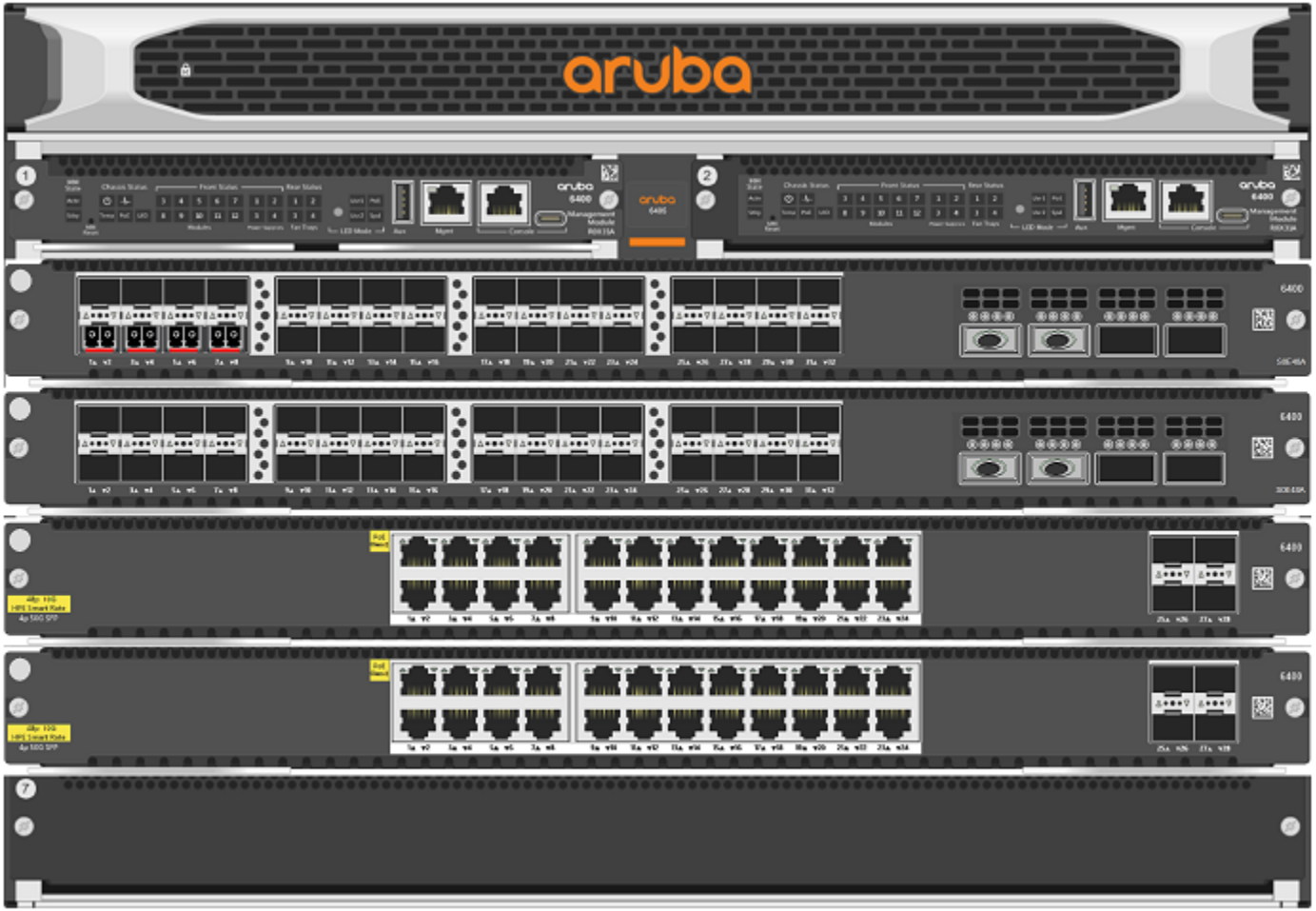
Including pricing

SKU	Description	WW Ref Price
R0X38C	Aruba 6400 48p 1GbE CLS4 PoE v2 Module	\$11,549
R0X39C	Aruba 6400 48p 1GbE CLS4 PoE /4SFP56 v2 Module	\$12,829
R0X40C	Aruba 6400 48p 1GbE CLS6 PoE /4SFP56 v2 Module	\$14,109
R0X41C	Aruba 6400 48p SR CLS6 PoE /4SFP56 v2 Module	\$16,679
R0X42C	Aruba 6400 24p 10GT /4SFP56 v2 Module	\$16,679
R0X43C	Aruba 6400 24p SFP+ /4SFP56 v2 Module	\$32,069
R0X44C	Aruba 6400 48p 1G/10G/25G SFP28 v2 Module	\$64,129
R0X45C	Aruba 6400 12p 40G/100G QSFP28 v2 Module	\$64,129
S0E48A	HPE ANW 6400 v2 32Y 4C Ext Mod	\$67,339
S1T83A	HPE ANW 6400 v2 24SRX CL8 4L Mod	\$16,679

These new CX 6400 modules are in IRIS now!

Including module views and connections rules

- 12p 40/100GbE QSFP28 Module v2 [R0X45C \$64,129]
- 32p 10/25GbE SFP28 4p QSFP28 Module v2 [S0E48A \$67,339] **NEW**
- 48p 1/10/25GbE SFP28 Module v2 [R0X44C \$64,129]
- 24p SFP+ 4p SFP56 Module v2 [R0X43C \$32,069]
- 24p 10G-T 4p SFP56 Module v2 [R0X42C \$16,679]
- 24p SR 1/2.5/5/10G Class8 PoE 4p SFP56 Module v2 [S1T83A \$16,679] **NEW**
- 48p SR 1/2.5/5GbE Class 6 PoE 4p SFP56 Module v2 [R0X41C \$16,679]
- 48p 1GbE Class 6 PoE and 4p SFP56 Module v2 [R0X40C \$14,109]
- 48p 1GbE Class 4 PoE and 4p SFP56 Module v2 [R0X39C \$12,829]
- 48p 1GbE Class 4 PoE Module v2 [R0X38C \$11,549]



CX 6400 Frequently Asked Questions

What are the new CX 6400 Modules?

- HPE Aruba Networking CX 6400 32p 25G SFP28 4p 100G QSFP28 MACsec v2 Extended Tables Module (S0E48A)
- HPE Aruba Networking CX 6400 24p Smart Rate 1G/2.5G/5G/10G Class8 PoE and 4p SFP56 v2 Module (S1T83A)

What are the price points for the new switches?

Always check with your local seller for the latest prices.

WW reference pricing for S0E48A is \$67,339 and S1T83A model is also \$16,679

Will the new CX 6400 modules have MACsec on all ports?

- For the S0E48A, yes, MACsec 256 is available on all uplink and downlink ports.
- The S1T83A does not support MACsec 256

What is the minimum AOS-CX release that supports the new 6400 modules?

10.13.1010

In which release of Central will the new modules be supported?

Central 2.5.8

What is the availability of the new 6400 modules?

GA (General Availability) from 5-Feb-2024.

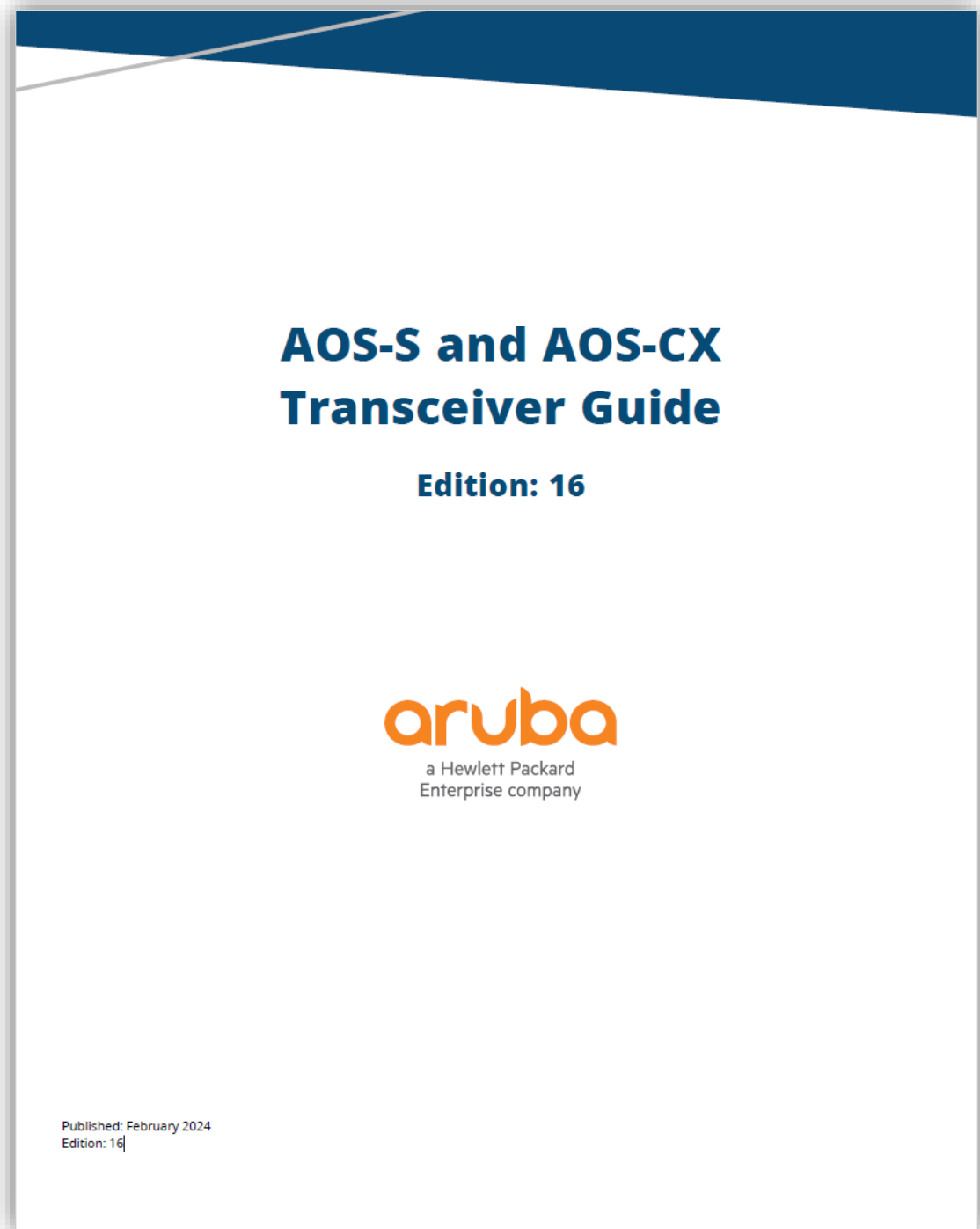
Supply chain ramp expected to begin April 2024.

Transceivers

Tool time!

AOS-Switch and AOS-CX Transceiver Guide

<https://networkingsupport.hpe.com/downloads;search=Transceiver;fileTypes=DOCUMENT;products=Aruba%20Switches>



AOS-S and AOS-CX Transceiver Guide

Edition: 16



Published: February 2024
Edition: 16

Resources

Resources

Partner

Aruba CX Campus Switches

- https://afp.arubanetworks.com/afp/index.php/Category:Campus_Switches

Aruba CX 6400 Switch Series

- https://afp.arubanetworks.com/afp/index.php/Aruba_CX_6400_Switch_Series

Aruba CX 6300 Switch Series

- https://afp.arubanetworks.com/afp/index.php/Aruba_CX_6300_Switch_Series

Aruba CX 6300 Switch Series – Technical Product Presentation

- https://afp.arubanetworks.com/afp/images/2/2b/HPE_Aruba_Networking_CX_6300_Switch_Series_Technical_Product_Presentation_Partners.pptx

Aruba CX 6300 Switch Series – Technical Product Guide

- https://afp.arubanetworks.com/afp/images/2/22/HPE_Aruba_Networking_CX_6300_Switch_Series_Technical_Product_Guide_-_Partners.pdf

Public

CX 6400 Switch Series Product Page & data sheet

- <https://www.arubanetworks.com/products/switches/6400-series/>
- <https://www.arubanetworks.com/resource/aruba-cx-6400-series-switch-data-sheet/>

CX 6300 Switch Series Product Page & data sheet

- <https://www.arubanetworks.com/products/switches/6300-series/>
- <https://www.arubanetworks.com/resource/aruba-cx-6300-series-switch-data-sheet/>

Digital data sheets and hi-res images for each model

- <https://psnow.ext.hpe.com/#/tiles/search/search?t=6300m&selectedTab=products>

Feature Navigator now has Feature Packs

- <https://feature-navigator.arubanetworks.com/>

Aruba CX Transceiver Guide

<https://www.arubanetworks.com/techdocs/Switches/xcvrs/PDF/AOS-S%20and%20AOS-CX%20Transceiver%20Guide.pdf>

Support Services

- <https://www.arubanetworks.com/support-services/>

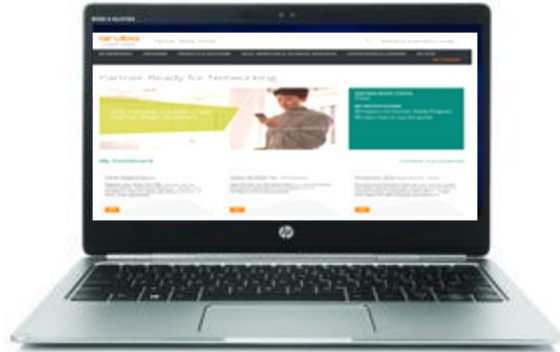
Q&A



Questions



Partner Resources



Partner Ready for Networking portal
<https://partner.hpe.com/aruba>



Arubapedia for Partners
<https://afp.arubanetworks.com>



My Learning / The Learning Center
www.mylearninghpe.com



Channel SE(CSE)
Regional channel support



Thank You

