

Product Highlights

Port Configuration

- 16 x 25G
- Uplinks: 4 x 100G/40G
- 24 x 10G
- Uplinks: 4 x 100G/40G

Hardware

- Compact 1RU
- Fixed fans
- Redundant power supplies
- PTP IEEE 1588v2 support

AsterNOS

- SONiC based enterprise distribution
- Single binary for all models
- Standard L2/L3 features
- Extensible custom tools
- OpenLAN Switching compatible
- ITU-T 8275.x, ST2059-2, AES67 PTP profiles

Overview

Asterfusion CX204P-M-E series campus aggregation switches provide cost-effective, wire-speed aggregation for enterprise campus networks. Built around the Marvell Aldrin2/3 ASIC and equipped with redundant PSUs and fixed fans, the CX204P-M-E Series combines high-speed 10G/25G downlinks with 100G uplinks to accommodate bandwidth-intensive aggregation requirements. This port architecture provides a straightforward path from access to aggregation while supporting flexible campus network topologies and future bandwidth expansion.



CX204P-M-E Campus Aggregation Switches Portfolio

The CX-M series switches run AsterNOS, which is enterprise-ready SONiC distribution enhanced by Asterfusion. AsterNOS is a common binary for all series of Asterfusion switches including data center and campus network products, it provides comprehensive and standardized Layer-2 and Layer-3 features including VXLAN virtualization, QoS and security functionalities. In campus network, AsterNOS supports standard 802.1x and RADIUS authentication for access control. Along with security features such as Dynamic ARP Inspection (DAI) and IP Source Guard (IPSG), it protects campus network security in different dimensions.

Asterfusion switches and Wi-Fi products are managed by Asteria Campus Controller, which is based on OpenWiFi and OpenLAN Switching standards, providing unified provisioning and maintenance experience for both wired and wireless networks.

AsterNOS

AsterNOS is a common software for all Asterfusion products. It is an enterprise distribution of SONiC which is based on Linux kernel and Switch Abstract Interface (SAI) for multi-vendor merchant silicon adaptability. AsterNOS provides rich, standard Layer-2 and Layer-3 functionalities, including VXLAN virtualization across all products, which makes it possible that customers can also choose data center products (25G or even 100G models) as spine or super spine layer within campus networks to expand the throughput and scalability. For details of the latest AsterNOS version, visit:

<https://asternos.com/community/space/enterprise-network/home>

Asteria Campus Controller

Asteria Campus Controller is Asterfusion management plane solution for entire campus network including wired and wireless components. The Controller is lightweight designed that can be deployed on-premises or on cloud, even directly deployed in specific switches. It offers topology pre-design, Zero Touch Provisioning (ZTP), configuration batch modification, network monitoring and health check for campus network. By using OpenWiFi and OpenLAN Switching architecture and standards, it is also possible to manage any standard 3rd party hardware to achieve unified management plane of entire network.

High-precision Time Synchronization and Multicast Support

CX-M switches provide full support for IEEE 1588v2 Precision Time Protocol (PTP) with Class C-level timing accuracy, enabling precise time synchronization for time-sensitive networking applications. In addition, the switches support comprehensive multicast protocols, including IGMP Snooping, IGMP Querier, and PIM, ensuring efficient and reliable multicast traffic delivery in AVoIP or industrial network deployments.

Asterfusion Optics and Cables

Asterfusion switches support a wide range of 10G, 25G, 100G, 200G, 400G and 800G ports. For details about the different optical modules compatible with Asterfusion switches, visit:

<https://cloudswit.ch/product-category/optical-transceivers>

Interface

- 10G/25G/40G/100G
- Interface Statistics
- Jumbo Frame (10218 Bytes)
- Digital Optical Monitoring (DOM)
- Virtual Interfaces

Layer2 & Layer3

- 4096 VLANs
- Voice VLAN
- STP, RSTP, MSTP
- QinQ
- LLDP
- LACP
- IPv4/v6 Dual Stack
- ARP, NDP
- SVI
- Routing Protocols: Static, OSPF v2/v3, BGP, MP-BGP
- Policy Based Routing (PBR)
- Route Map
- ECMP
- DHCPv4/v6

Virtualization

- GRE
- VRF
- Static/Dynamic VXLAN
- VXLAN Centralized/Distributed Gateway
- EVPN Type 1/2/3/4/5
- VXLAN Cross-connect
- VXLAN Multicast Underlay
- Inter-VRF Route Leaking
- Anycast Gateway
- Symmetric IRB

Multicast

- Multicast Route
- IGMP v1/v2/v3
- IGMP Querier
- IGMP Snooping
- PIMv4, PIM-SM

QoS

- 8 Queues per Port
- 802.1p Based Classification
- DSCP Based Classification
- Strict Priority/DWRR Queue Scheduling
- Policing/Shaping
- Rate Limiting

Security

- ACL for IPv4/v6, Ingress/Egress ACL
- Storm Suppression
- TACACS+
- RADIUS
- CoPP
- DAI
- IPSGv4/v6
- 802.1x Authentication
- MAC Authentication Bypass (MAB)
- Portal Authentication
- Dynamic VLAN Assignment
- MACSec

Reliability

- MC-LAG
- VRRPv2/v3
- EVPN MultiHoming
- Monitor Link
- BFD

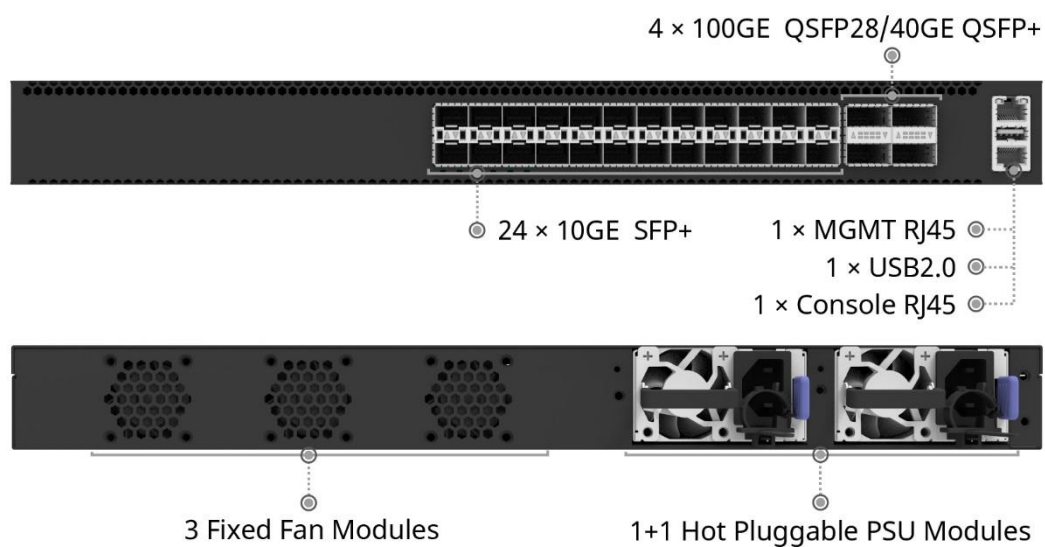
Management

- Asteria Campus Controller
- Console, SSH, Telnet, REST API, NETCONF
- Industry Standard CLI (Klish)
- ZTP
- Syslog
- sFlow
- SNMPv1/v2/v3
- SPAN/ERSPAN
- PTP Profile: IEEE 1588v2, ITU-T G.8275.1/2, SMPTE-2059-2, AES67
- PTP Clock Type: GrandMaster, BC, OC, T-GM, T-BC, T-BC-P, T-TSC, T-TSC-P
- SyncE

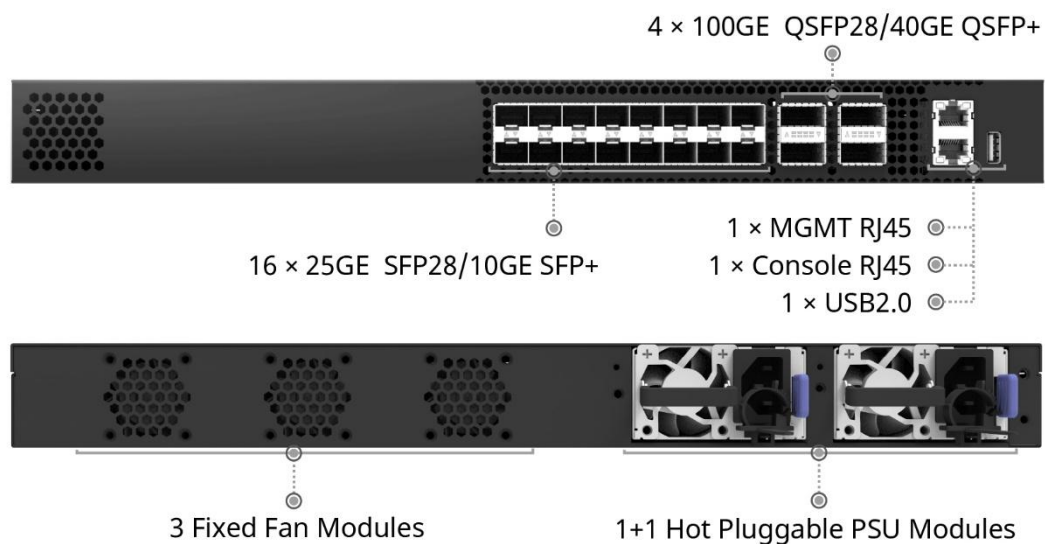
Specifications

Product Model	CX204P-24S-M-E	CX204P-16Y-M-E
Port Configuration	4 × 100GE/40GE QSFP28 24 × 10GE/10GE SFP28	4 × 100GE/40GE QSFP28 16 × 25GE/10GE SFP28
Management Interface	1× RJ45 Console Port, 1× RJ45 MGMT Port, 1× USB 2.0 Port	
CPU	OCTEON CN9130	OCTEON CN9130
Memory	4GB DDR4	4GB DDR4
Flash	32GB EMMC	32GB EMMC
Switching Chip Model	Marvell Prestera (Aldrin 2)	Marvell Prestera (Aldrin 3)
Switching Capacity	1.09Tbps	800Gbps
Input Voltage	100-240V AC / 36-72V DC	100-240V AC / 36-72V DC
Maximum Power Consumption	125W	125W
Dimensions (WxHxD)	440mm × 44mm × 470mm	440mm × 44mm × 350mm
Weight	8.6kg	8.6kg
Power Supplies	1+1 Hot Pluggable PSUs	1+1 Hot Pluggable PSUs
Fans	3 Fixed Fans	3 Fixed Fans
Air Flow	Front-to-Rear	Front-to-Rear
Operating Temperature	0 – 45°C (32 – 113°F)	0 – 45°C (32 – 113°F)
Relative Humidity	5% - 90% (non-condensing)	5% - 90% (non-condensing)
Variants	PTP: (non-PTP, PTP)	PTP: (non-PTP, PTP)

Panel Illustration



CX204P-24S-M-E



CX204P-16Y-M-E

Ordering Information

Part Number	Description
CX204P-24S-M-E	Campus aggregation/spine switch system, 24x10G/1G SFP+, 4x100G QSFP28, hot-pluggable 1+1 PSU, 3 fixed FANs, front-to-power airflow
CX204P-24S-PTP-M-E	Campus aggregation/spine switch system, 24x10G/1G SFP+, 4x100G QSFP28 with PTP module, hot-pluggable 1+1 PSU, 3 fixed FANs, front-to-power airflow
CX204P-16Y-M-E	Campus aggregation/spine switch system, 16x25G/10G/1G SFP28, 4x100G QSFP28, hot-pluggable 1+1 PSU, 3 fixed FANs, front-to-power airflow
CX204P-16Y-PTP-M-E	Campus aggregation/spine switch system, 16x25G/10G/1G SFP28, 4x100G QSFP28 with PTP module, hot-pluggable 1+1 PSU, 3 fixed FANs, front-to-power airflow

Optional Components	
HW-WNT-1Y-CX204P-M	Hardware platform warranty for CX204P-M series, 1 Year
AsterNOS-UG-1Y-CX204P-M	Major version upgrade of AsterNOS for CX204P-M series, 1 Year

Warranty and Service Support

Asterfusion CX-M series switches come with 2-year Basic H/W service and warranty, preloaded perpetual licensed AsterNOS and 1-year AsterNOS upgrade subscription.

To acquire more info about company, products, and solutions: www.cloudswit.ch

AsterNOS Documentation: docs.asternos.com

AsterNOS Community: asternos.com/community

Sales: bd@cloudswit.ch



Copyright © 2026 Asterfusion. All rights reserved.