

Product Highlights

Port Configurations

- 24 x 10G
- 16 x 10G
- Uplinks: 2 x 100G

- 24 x 10G
- 48 x 10G
- Uplinks: 6 x 100G

- 24 x 25G
- Uplinks: 2 x 100G

Hardware

- Compact 1RU
- Redundant 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 CX202P/206P-M-H Series enterprise aggregation switches provide wire-speed connectivity for aggregation and spine roles in enterprise campus networks. Powered by Marvell Aldrin2/3 ASICs, the CX2P Series combines 10G and 25G downlinks with 100G uplinks across a range of port configurations. This high-bandwidth architecture provides efficient aggregation between access and core layers while accommodating flexible campus network topologies and future capacity expansion.



CX202P/206P-M 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

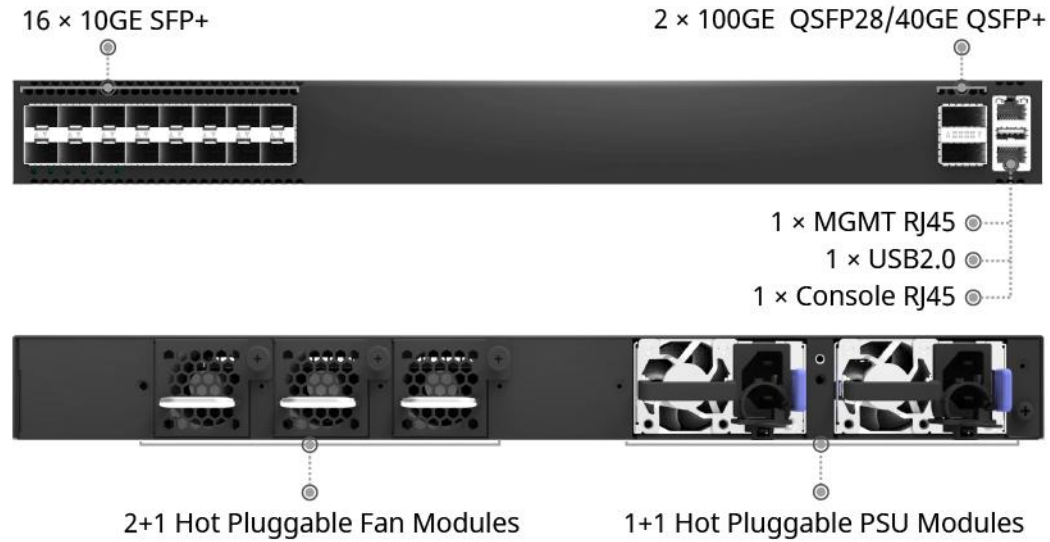
- Asteria Campus Controller
- Console, SSH, Telnet, REST API, NETCONF
- Industry Standard CLI (Klish)
- ZTP
- Syslog
- sFlow
- SNMPv1/v2/v3
- SPAN/ERSPAN
- PTP Profile: IEEE 1588v2, ITU-T G.8275.1/2, SMPTE-2059-2, AES67
- PTP Clock Type: GrandMaster, BC, OC, T-GM, T-BC, T-BC-P, T-TSC, T-TSC-P
- SyncE

Specifications

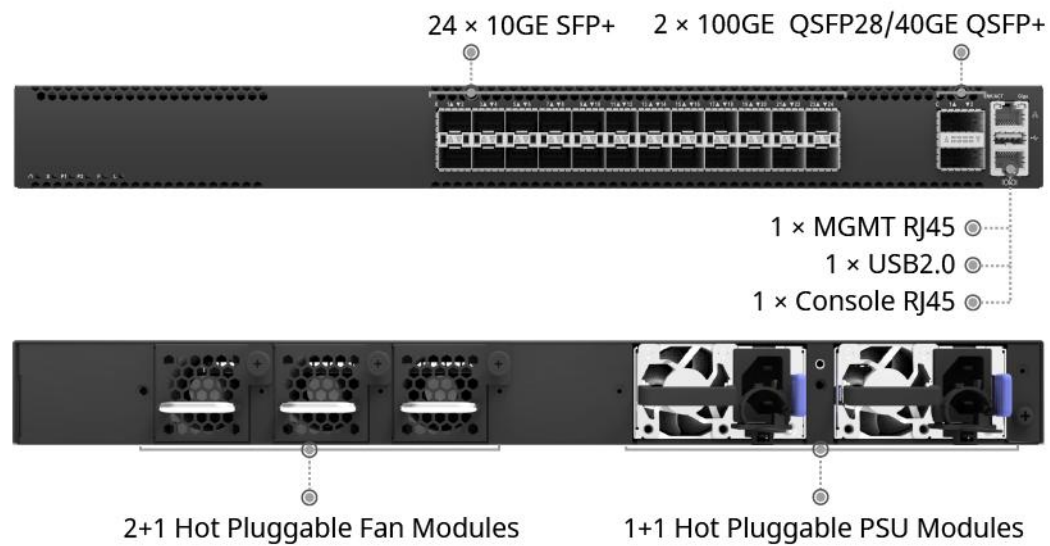
Product Model	CX202P-16S-M-H	CX202P-24S-M-H	CX202P-24Y-M-H
Port Configuration	2 × 100GE/40GE QSFP28 16 × 10GE SFP+	2 × 100GE/40GE QSFP28 24 × 10GE SFP+	2 × 100GE/40GE QSFP28 24 × 25GE/10GE SFP28
Management Interface	1× RJ45 Console Port, 1× RJ45 MGMT Port, 1× USB 2.0 Port		
CPU	OCTEON CN9130	OCTEON CN9130	OCTEON CN9130
Memory	4GB DDR4	4GB DDR4	4GB DDR4
Flash	32GB EMMC	32GB EMMC	32GB EMMC
Switching Chip Model	Marvell Prestera (Aldrin 2)	Marvell Prestera (Aldrin 2)	Marvell Prestera (Aldrin 3)
Switching Capacity	1.09Tbps	1.09Tbps	800Gbps
Input Voltage	100-240V AC / 36-72V DC	100-240V AC / 36-72V DC	100-240V AC / 36-72V DC
Maximum Power Consumption	165W	168W	168W
Dimensions (WxHxD)	440mm × 44mm × 470mm	440mm × 44mm × 470mm	440mm × 44mm × 470mm
Weight	9kg	9kg	8.6kg
Power Supplies	1+1 Hot Pluggable PSUs	1+1 Hot Pluggable PSUs	1+1 Hot Pluggable PSUs
Fans	2+1 Hot Pluggable Fans	2+1 Hot Pluggable Fans	2+1 Hot Pluggable Fans
Air Flow	Front-to-Rear	Front-to-Rear	Front-to-Rear
Operating Temperature	0 – 45°C (32 – 113°F)	0 – 45°C (32 – 113°F)	0 – 45°C (32 – 113°F)
Relative Humidity	5% - 90% (non-condensing)	5% - 90% (non-condensing)	5% - 90% (non-condensing)
Variants	PTP: (non-PTP, PTP)	PTP: (non-PTP, PTP)	PTP: (non-PTP, PTP)

Product Model	CX206P-24S-M-H	CX206P-48S-M-H
Port Configuration	6 × 100GE/40GE QSFP28 24 × 10GE SFP+	6 × 100GE/40GE QSFP28 48 × 10GE SFP+
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 (ArmStrongLP)	Marvell Prestera (ArmStrongLP)
Switching Capacity	1.09Tbps	1.09Tbps
Input Voltage	100-240V AC / 36-72V DC	100-240V AC / 36-72V DC
Maximum Power Consumption	165W	187W
Dimensions (WxHxD)	440mm × 44mm × 470mm	440mm × 44mm × 470mm
Weight	9kg	9.1kg
Power Supplies	1+1 Hot Pluggable PSUs	1+1 Hot Pluggable PSUs
Fans	2+1 Hot Pluggable Fans	2+1 Hot Pluggable 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)

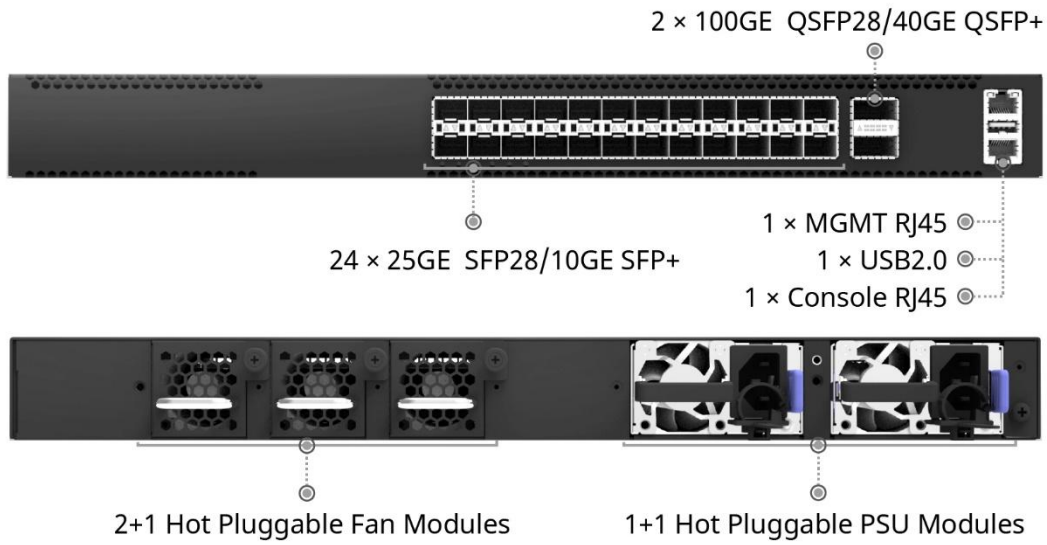
Panel Illustration



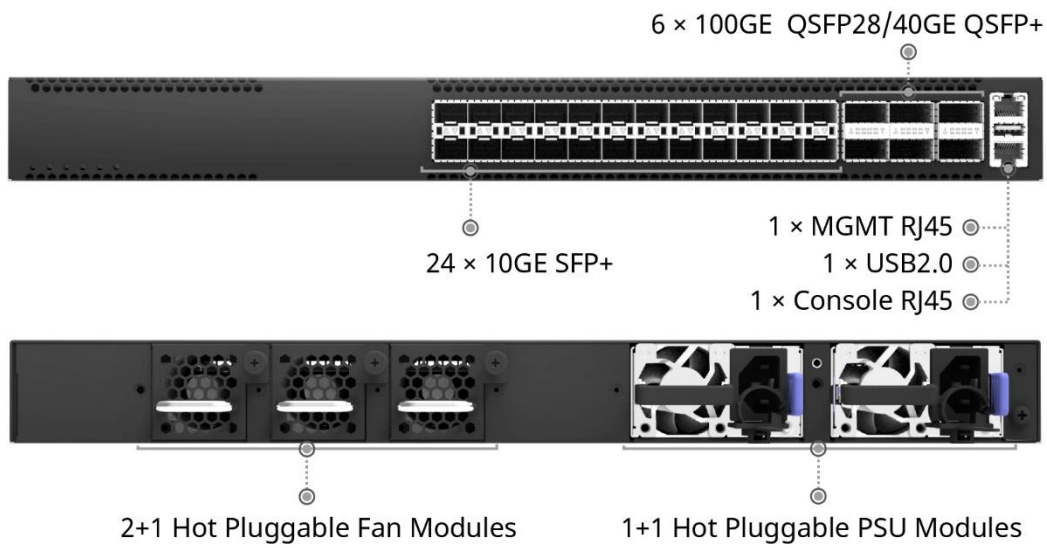
CX202P-16S-M-H



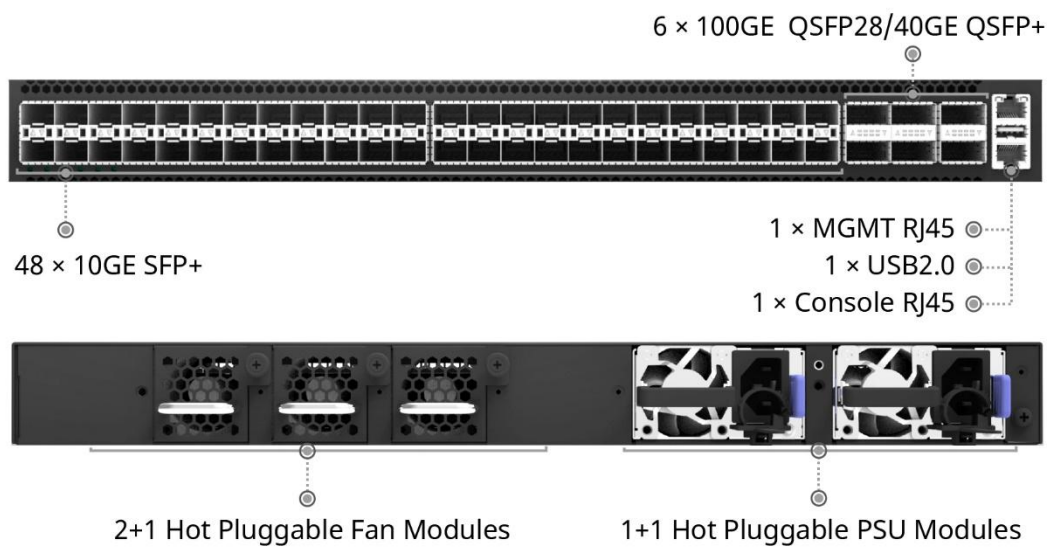
CX202P-24S-M-H



CX202P-24Y-M-H



CX206P-24S-M-H



CX206P-48S-M-H

Ordering Information

Part Number	Description
CX202P-16S-M-H	Enterprise aggregation/spine switch system, 16x10G/1G SFP+, 2x100G QSFP28, hot-pluggable 1+1 PSU, hot-pluggable 2+1 FANs, front-to-power airflow
CX202P-16S-PTP-M-H	Enterprise aggregation/spine switch system, 16x10G/1G SFP+, 2x100G QSFP28 with PTP module, hot-pluggable 1+1 PSU, hot-pluggable 2+1 FANs, front-to-power airflow
CX202P-24S-M-H	Enterprise aggregation/spine switch system, 24x10G/1G SFP+, 2x100G QSFP28, hot-pluggable 1+1 PSU, hot-pluggable 2+1 FANs, front-to-power airflow
CX202P-24S-PTP-M-H	Enterprise aggregation/spine switch system, 24x10G/1G SFP+, 2x100G QSFP28 with PTP module, hot-pluggable 1+1 PSU, hot-pluggable 2+1 FANs, front-to-power airflow
CX202P-24Y-M-H	Enterprise aggregation/spine switch system, 24x25G/10G/1G SFP28, 2x100G QSFP28, hot-pluggable 1+1 PSU, hot-pluggable 2+1 FANs, front-to-power airflow
CX202P-24Y-PTP-M-H	Enterprise aggregation/spine switch system, 24x25G/10G/1G SFP28, 2x100G QSFP28 with PTP module, hot-pluggable 1+1 PSU, hot-pluggable 2+1 FANs, front-to-power airflow
CX202P-24Y-SEC-M-H	Enterprise aggregation/spine switch system, 24x25G/10G/1G SFP28, 2x100G QSFP28 with MACSec support, hot-pluggable 1+1 PSU, hot-pluggable 2+1 FANs, front-to-power airflow
CX202P-24Y-PTP-SEC-M-H	Enterprise aggregation/spine switch system, 24x25G/10G/1G SFP28, 2x100G QSFP28 with PTP module and MACSec support, hot-pluggable 1+1 PSU, hot-pluggable 2+1 FANs, front-to-power airflow
CX206P-24S-M-H	Enterprise aggregation/spine switch system, 24x10G/1G SFP+, 6x100G QSFP28, hot-pluggable 1+1 PSU, hot-pluggable 2+1 FANs, front-to-power airflow
CX206P-24S-PTP-M-H	Enterprise aggregation/spine switch system, 24x10G/1G SFP+, 6x100G QSFP28 with PTP module, hot-pluggable 1+1 PSU, hot-pluggable 2+1 FANs, front-to-power airflow
CX206P-48S-M-H	Enterprise aggregation/spine switch system, 48x10G/1G SFP+, 6x100G QSFP28, hot-pluggable 1+1 PSU, hot-pluggable 2+1 FANs, front-to-power airflow
CX206P-48S-PTP-M-H	Enterprise aggregation/spine switch system, 48x10G/1G SFP+, 6x100G QSFP28 with PTP module, hot-pluggable 1+1 PSU, hot-pluggable 2+1 FANs, front-to-power airflow

Optional Components

HW-WNT-1Y-CX202P-M	Hardware platform warranty for CX202P-M series, 1 Year
AsterNOS-UG-1Y-CX202P-M	Major version upgrade of AsterNOS for CX202P-M series, 1 Year
HW-WNT-1Y-CX206P-M	Hardware platform warranty for CX206P-M series, 1 Year
AsterNOS-UG-1Y-CX206P-M	Major version upgrade of AsterNOS for CX206P-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

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