

Product Highlights

Port Configurations

- 48 x 25G
- 2 x DPU slots
- Uplinks: 6 x 100G
- 48 x 25G
- Uplinks: 8 x 100G
- 32 x 100G
- 32 x 400G

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

The Asterfusion CX-M series enterprise core switches belong to CX-M family, act as wire speed network core/super spine roles for enterprise campus scenarios. CX3/5/7-M-H series based on Marvell Falcon ASIC, offers interface speeds ranging from 10G/25G downlinks up to full-port 400G, which is suitable for aggregating 10G/25G access switches and high-speed network devices, while also serving as a high-performance core platform for HCI and other bandwidth-intensive enterprise applications.



CX3/5/7-M-H 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/400G
- 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

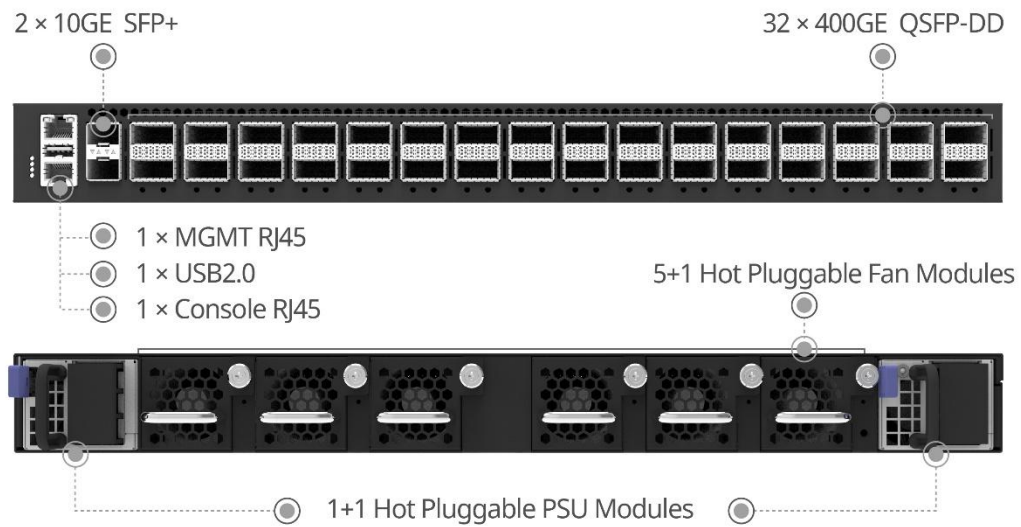
- Asteria Campus Controller
- Console, SSH, Telnet, REST API, NETCONF
- Industry Standard CLI (Klish)
- ZTP
- Syslog
- sFlow
- SNMPv1/v2/v3
- SPAN/ERSPAN
- PTP Profile: IEEE 1588v2, ITU-T G.8275.1/2, SMPTE-2059-2, AES67
- PTP Clock Type: GrandMaster, BC, OC, T-GM, T-BC, T-BC-P, T-TSC, T-TSC-P
- SyncE

Specifications

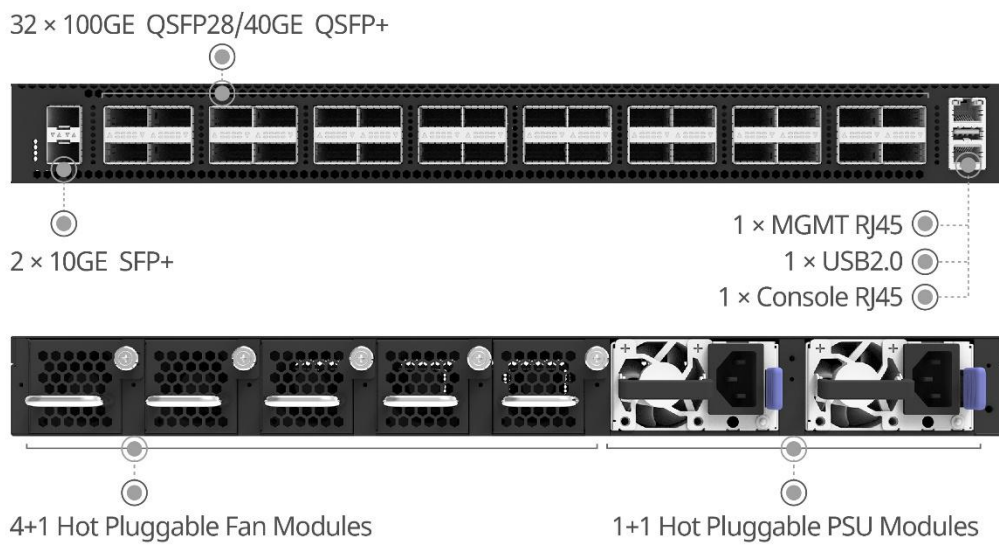
Product Model	CX732Q-M-H	CX532P-M-H
Port Configuration	32 × 400GE QSFP-DD 2 × 10GE SFP+	32 × 100GE/40GE QSFP28 2 × 10GE SFP+
Management Interface	1× RJ45 Console Port, 1× RJ45 MGMT Port, 1× USB 2.0 Port	
CPU	Pentium D1508	Pentium D1508
Memory	16GB DDR4	16GB DDR4
Flash	256GB M.2 SATA	256GB M.2 SATA
Switching Chip Model	Marvell Prestera (Falcon)	Marvell Prestera (Falcon)
Switching Capacity	12.8Tbps	3.2Tbps
Input Voltage	100-240V AC / 36-72V DC	100-240V AC / 36-72V DC
Maximum Power Consumption	1000W	495W
Dimensions (WxHxD)	440mm × 44mm × 515mm	440mm × 44mm × 515mm
Weight	12.4kg	12kg
Power Supplies	1+1 Hot Pluggable PSUs	1+1 Hot Pluggable PSUs
Fans	5+1 Hot Pluggable Fans	4+1 Hot Pluggable Fans
Air Flow	Front-to-Rear/Rear-to-Front	Front-to-Rear/Rear-to-Front
Operating Temperature	0 – 40°C (32 – 104°F)	0 – 45°C (32 – 113°F)
Relative Humidity	10% - 90% (non-condensing)	10% - 90% (non-condensing)
Variants	PTP: (non-PTP, PTP)	PTP: (non-PTP, PTP)

Product Model	CX308P-48Y-M-H	CX306P-48Y-M-H
Port Configuration	8 × 100GE/40GE QSFP28 48 × 25GE/10GE SFP28	6 × 100GE/40GE QSFP28 48 × 25GE/10GE SFP28
Management Interface	1× RJ45 Console Port, 1× RJ45 MGMT Port, 1× USB 2.0 Port	
CPU	Pentium D1508	Pentium D1508
Memory	16GB DDR4	16GB DDR4
Flash	256GB M.2 SATA	256GB M.2 SATA
Switching Chip Model	Marvell Prestera (Falcon)	Marvell Prestera (Falcon)
Switching Capacity	2.0Tbps	2.0Tbps
Input Voltage	100-240V AC / 36-72V DC	100-240V AC / 36-72V DC
Maximum Power Consumption	480W	480W (without DPU)
Dimensions (WxHxD)	440mm × 44mm × 515mm	440mm × 44mm × 515mm
Weight	11.1kg	10.5kg
Power Supplies	1+1 Hot Pluggable PSUs	1+1 Hot Pluggable PSUs
Fans	3+1 Hot Pluggable Fans	3+1 Hot Pluggable Fans
Air Flow	Front-to-Rear/Rear-to-Front	Front-to-Rear/Rear-to-Front
Operating Temperature	0 – 45°C (32 – 113°F)	0 – 45°C (32 – 113°F)
Relative Humidity	10% - 90% (non-condensing)	10% - 90% (non-condensing)
Variants	PTP: (non-PTP, PTP)	PTP: (non-PTP, PTP, GNSS) DPU: (0, 1, 2)

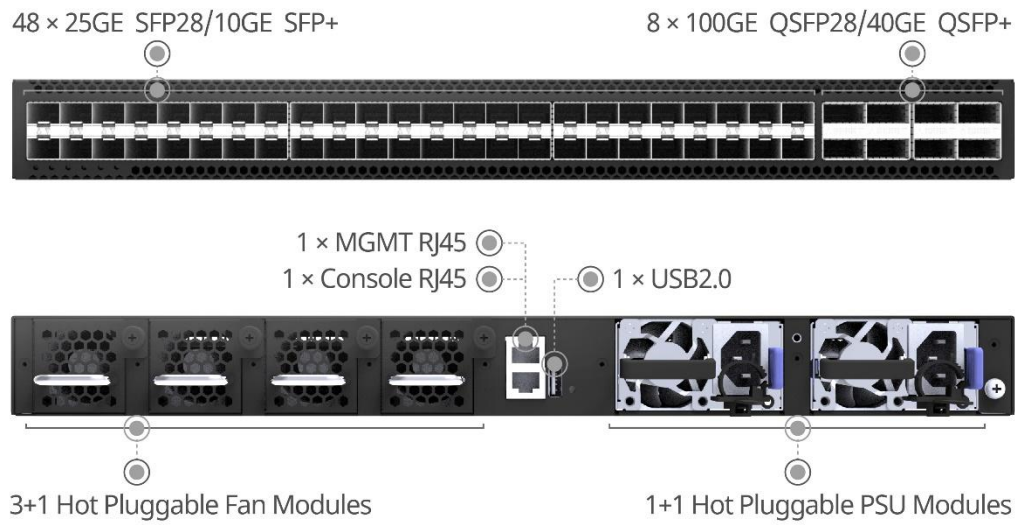
Panel Illustration



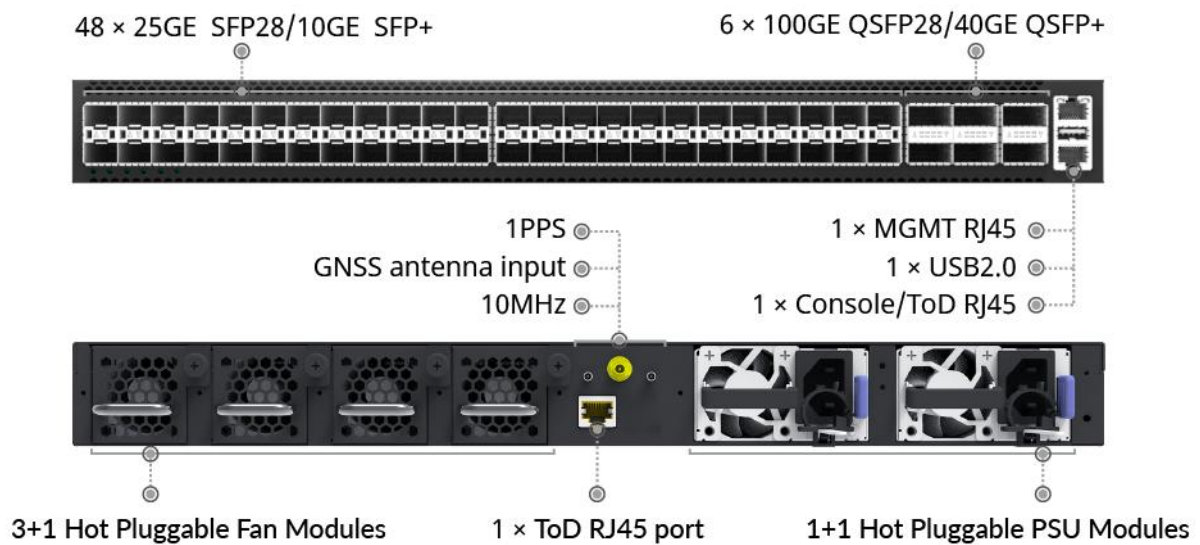
CX732Q-M-H



CX532P-M-H



CX308P-48Y-M-H



CX306P-48Y-M-H (GNSS module is optional)

Ordering Information

Part Number	Description
CX732Q-M-H	Enterprise core/spine switch system, 32x400G QSFP-DD, hot-pluggable 1+1 PSU, hot-pluggable 5+1 FANs, front-to-power airflow
CX732Q-PTP-M-H	Enterprise core/spine switch system, 32x400G QSFP-DD with PTP module, hot-pluggable 1+1 PSU, hot-pluggable 5+1 FANs, front-to-power airflow
CX532P-M-H	Enterprise core/spine switch system, 32x100G QSFP28, hot-pluggable 1+1 PSU, hot-pluggable 4+1 FANs, front-to-power airflow
CX532P-PTP-M-H	Enterprise core/spine switch system, 32x100G QSFP28 with PTP module, hot-pluggable 1+1 PSU, hot-pluggable 4+1 FANs, front-to-power airflow
CX308P-48Y-M-H	Enterprise core/spine switch system, 48x25G SFP28, 8x100G QSFP28, hot-pluggable 1+1 PSU, hot-pluggable 3+1 FANs, front-to-power airflow
CX308P-48Y-PTP-M-H	Enterprise core/spine switch system, 48x25G SFP28, 8x100G QSFP28 with PTP module, hot-pluggable 1+1 PSU, hot-pluggable 3+1 FANs, front-to-power airflow
CX306P-48Y-M-H	Enterprise core/spine switch system, 48x25G/10G SFP28, 6x100G QSFP28, 2xDPU extension slots, hot-pluggable 1+1 PSU, hot-pluggable 3+1 FANs, front-to-power airflow
CX306P-48Y-PTP-M-H	Enterprise core/spine switch system, 48x25G/10G SFP28, 6x100G QSFP28 with PTP module, 2xDPU extension slots, hot-pluggable 1+1 PSU, hot-pluggable 3+1 FANs, front-to-power airflow
CX306P-48Y-GNSS-M-H	Enterprise core/spine switch system, 48x25G/10G SFP28, 6x100G QSFP28 with GNSS module, 2xDPU extension slots, hot-pluggable 1+1 PSU, hot-pluggable 3+1 FANs, front-to-power airflow
CX306P-48Y-1xDPUM16-M-H	Enterprise core/spine switch system, 48x25G/10G SFP28, 6x100G QSFP28, 1xDPU with 16GB memory, hot-pluggable 1+1 PSU, hot-pluggable 3+1 FANs, front-to-power airflow
CX306P-48Y-1xDPUM16-PTP-M-H	Enterprise core/spine switch system, 48x25G/10G SFP28, 6x100G QSFP28 with PTP module, 1xDPU with 16GB memory, hot-pluggable 1+1 PSU, hot-pluggable 3+1 FANs, front-to-power airflow
CX306P-48Y-1xDPUM16-GNSS-M-H	Enterprise core/spine switch system, 48x25G/10G SFP28, 6x100G QSFP28 with GNSS module, 1xDPU with 16GB memory, hot-pluggable 1+1 PSU, hot-pluggable 3+1 FANs, front-to-power airflow
CX306P-48Y-2xDPUM16-M-H	Enterprise core/spine switch system, 48x25G/10G SFP28, 6x100G QSFP28, 2xDPU with 16GB memory, hot-pluggable 1+1 PSU, hot-pluggable 3+1 FANs, front-to-power airflow

CX306P-48Y-2xDPUM16-PTP-M-H	Enterprise core/spine switch system, 48x25G/10G SFP28, 6x100G QSFP28 with PTP module, 2xDPU with 16GB memory, hot-pluggable 1+1 PSU, hot-pluggable 3+1 FANs, front-to-power airflow
CX306P-48Y-2xDPUM16-GNSS-M-H	Enterprise core/spine switch system, 48x25G/10G SFP28, 6x100G QSFP28 with GNSS module, 2xDPU with 16GB memory, hot-pluggable 1+1 PSU, hot-pluggable 3+1 FANs, front-to-power airflow
CX306P-48Y-1xDPUM32-M-H	Enterprise core/spine switch system, 48x25G/10G SFP28, 6x100G QSFP28, 1xDPU with 32GB memory, hot-pluggable 1+1 PSU, hot-pluggable 3+1 FANs, front-to-power airflow
CX306P-48Y-1xDPUM32-PTP-M-H	Enterprise core/spine switch system, 48x25G/10G SFP28, 6x100G QSFP28 with PTP module, 1xDPU with 32GB memory, hot-pluggable 1+1 PSU, hot-pluggable 3+1 FANs, front-to-power airflow
CX306P-48Y-1xDPUM32-GNSS-M-H	Enterprise core/spine switch system, 48x25G/10G SFP28, 6x100G QSFP28 with GNSS module, 1xDPU with 32GB memory, hot-pluggable 1+1 PSU, hot-pluggable 3+1 FANs, front-to-power airflow
CX306P-48Y-2xDPUM32-M-H	Enterprise core/spine switch system, 48x25G/10G SFP28, 6x100G QSFP28, 2xDPU with 32GB memory, hot-pluggable 1+1 PSU, hot-pluggable 3+1 FANs, front-to-power airflow
CX306P-48Y-2xDPUM32-PTP-M-H	Enterprise core/spine switch system, 48x25G/10G SFP28, 6x100G QSFP28 with PTP module, 2xDPU with 32GB memory, hot-pluggable 1+1 PSU, hot-pluggable 3+1 FANs, front-to-power airflow
CX306P-48Y-2xDPUM32-GNSS-M-H	Enterprise core/spine switch system, 48x25G/10G SFP28, 6x100G QSFP28 with GNSS module, 2xDPU with 32GB memory, hot-pluggable 1+1 PSU, hot-pluggable 3+1 FANs, front-to-power airflow

Optional Components	
HW-WNT-1Y-CX732Q-M	Hardware platform warranty for CX732Q-M series, 1 Year
AsterNOS-UG-1Y- CX732Q-M	Major version upgrade of AsterNOS for CX732Q-M series, 1 Year
HW-WNT-1Y-CX532P-M	Hardware platform warranty for CX532P-M series, 1 Year
AsterNOS-UG-1Y-CX532P-M	Major version upgrade of AsterNOS for CX532P-M series, 1 Year
HW-WNT-1Y-CX308P-M	Hardware platform warranty for CX308P-M series, 1 Year
AsterNOS-UG-1Y-CX308P-M	Major version upgrade of AsterNOS for CX308P-M series, 1 Year
HW-WNT-1Y-CX306P-M	Hardware platform warranty for CX306P-M series, 1 Year
AsterNOS-UG-1Y-CX306P-M	Major version upgrade of AsterNOS for CX306P-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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