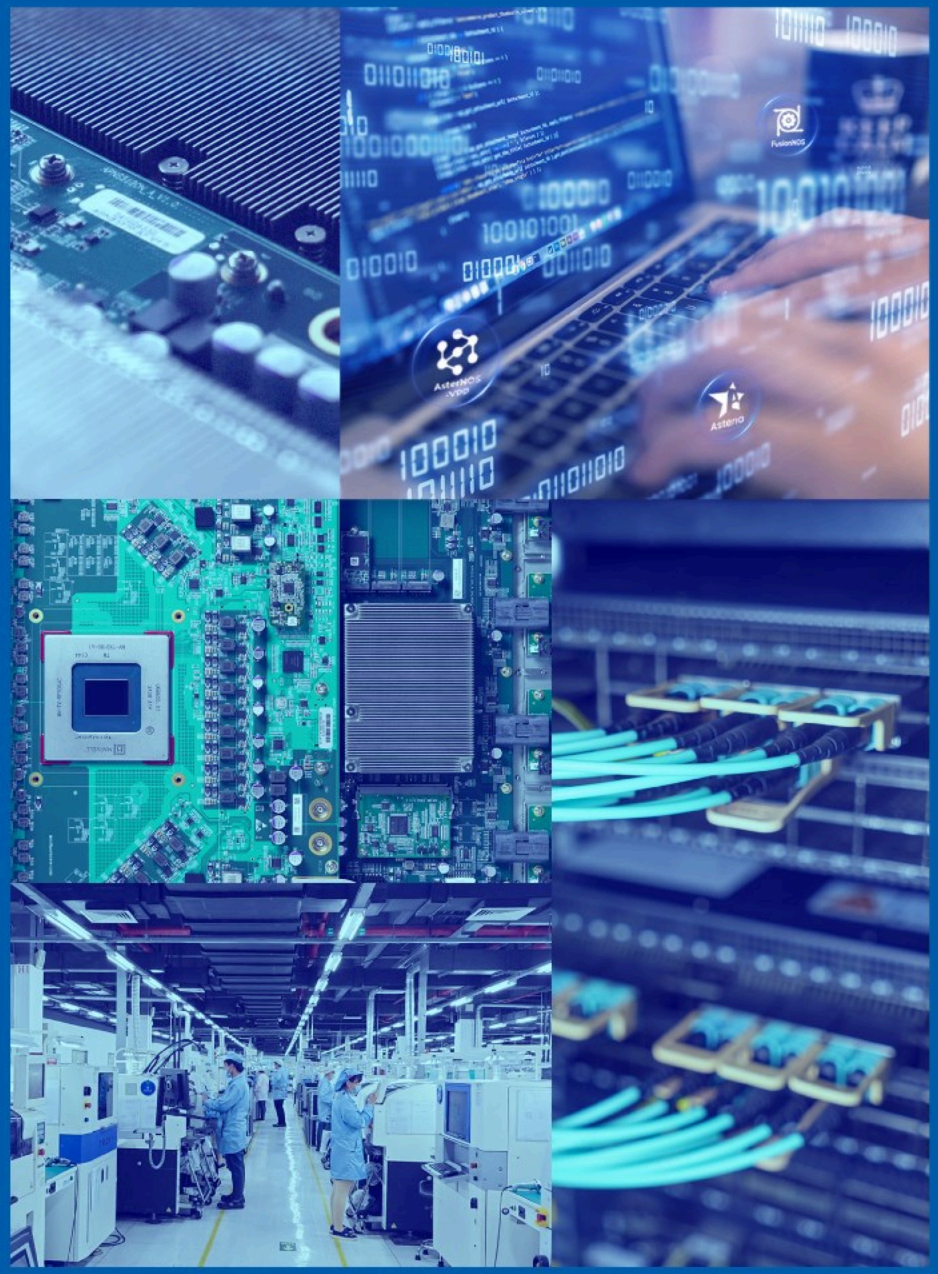


OPEN NETWORKING

SONiC-POWERED SWITCHES & ROUTERS

Asterfusion

2026 Product Brochure

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Website

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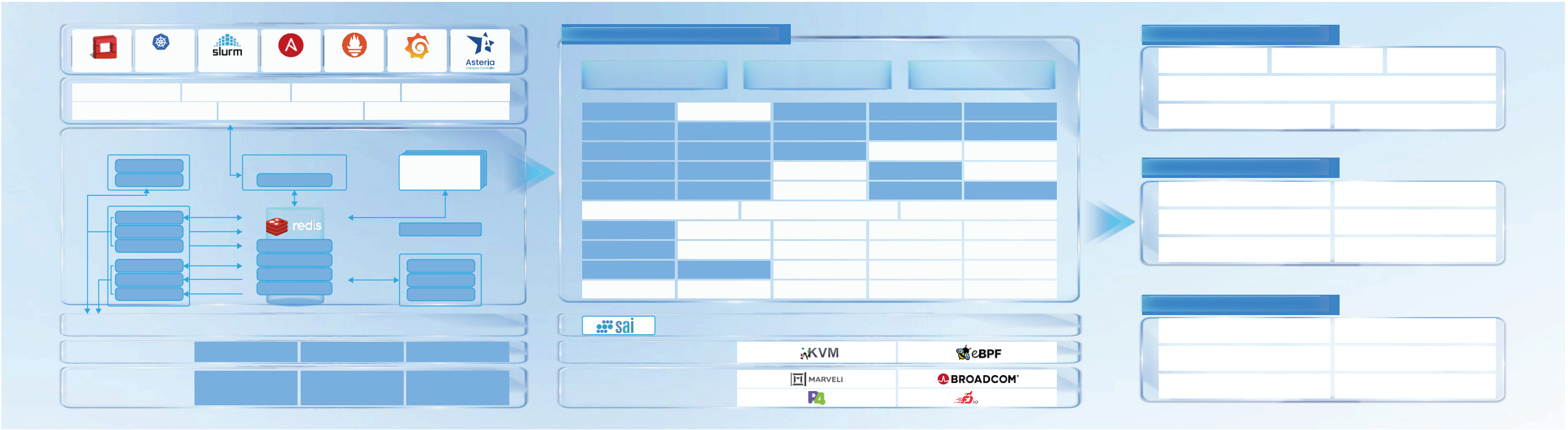
Asterfusion

01

SOFTWARE Enterprise SONiC

AsterNOS-The World's Premier Enterprise SONiC

3 Commercial Editions



Turnkey Solutions

1G–1.6T switches with validated, platform-specific SONiC software for integrated hardware and software delivery.

Professional Support with SLA

SLA-backed technical support with quarterly major feature updates, functional enhancements and frequent minor releases.

Field-Proven Deployments from Edge to Core

Three mature editions for AI & Data Center, Enterprise & Campus, and Router & Gateway, proven across AI Fabric, hyperscale, enterprises.

Simple and Affordable Licensing

One-time perpetual license with no annual subscription fees, reducing long-term total cost of ownership.

Broad ASIC Compatibility

Support multiple hardware platforms including Marvell, Broadcom, P4 and VPP, ensuring vendor flexibility and long-term investment protection.

The Industry's First SONiC for Router & Gateway

Combining SONiC control plane with VPP data plane to deliver high-performance routing, secure VPN, and full automation cost-effectively.

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02

AIDC & CLOUD

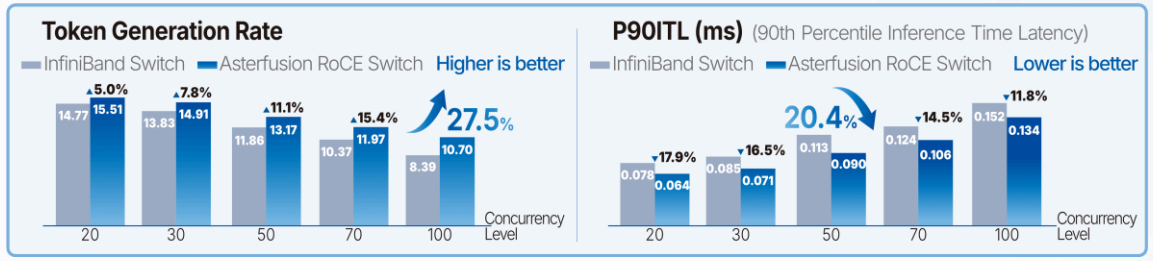
AI Data Center & Cloud Switch

AI Inference Performance: RoCE vs. InfiniBand
DeepSeek-R1 671B as an example

Setup: CX864E-N Switch | 16× H20 GPUs | 400G CX-7 NICs

↓20.4% P90 Latency

↑27.5% Token Gen Rate



Storage Performance: RoCE vs. InfiniBand

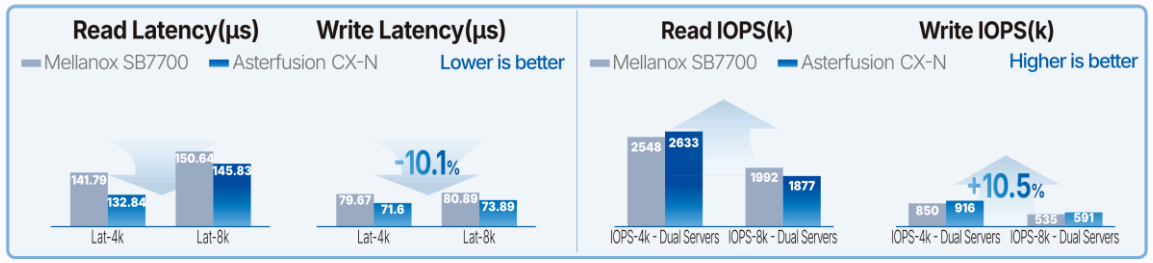
Setup: CX532P-N Switch | NVMe-oF | 4KB/8KB Workloads

↓6.3% Read Latency

↓10.1% Write Latency

↑6.1% Concurrent Read IOPS

↑10.5% Concurrent Write IOPS

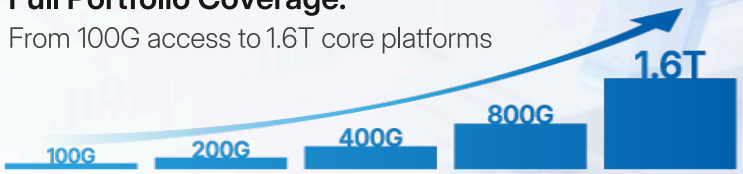


Enterprise AI SONiC

- **Unified ASIC & NOS Architecture:**
  Consistent ASIC pipeline and NOS architecture across training, inference, storage, front-end & management networks, delivering a unified experience.
- **Advanced AI Networking Stack:**
  INT-driven Routing, Adaptive Routing and Switching, Packet Spray & WCMP for optimized load balancing.
- **Rich Northbound APIs:**
  Seamless integration with management and orchestration systems through northbound APIs, including REST API, NETCONF and gNMI.

Powering AI Fabric

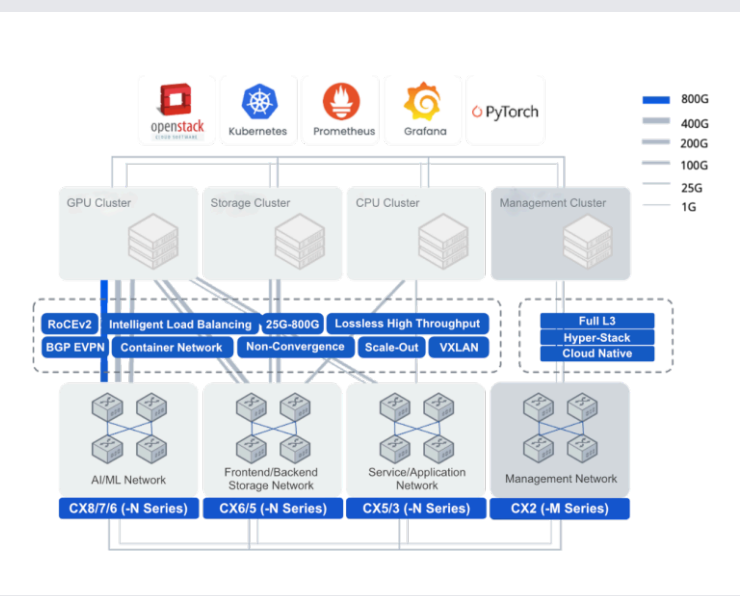
- **Full Portfolio Coverage:**
  From 100G access to 1.6T core platforms



- **Ultra-Low Latency:**
  Single-switch forwarding latency as low as 500ns, with ~2µs end-to-end latency.
- **Power-Efficient Platforms:**
  800G switch with maximum power consumption of 2400W (full ports of 800G-2SR4).

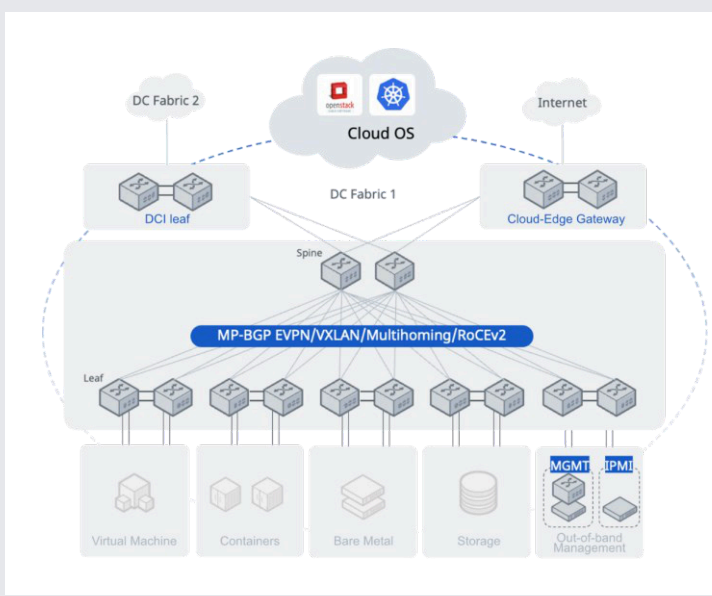
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Application Scenarios



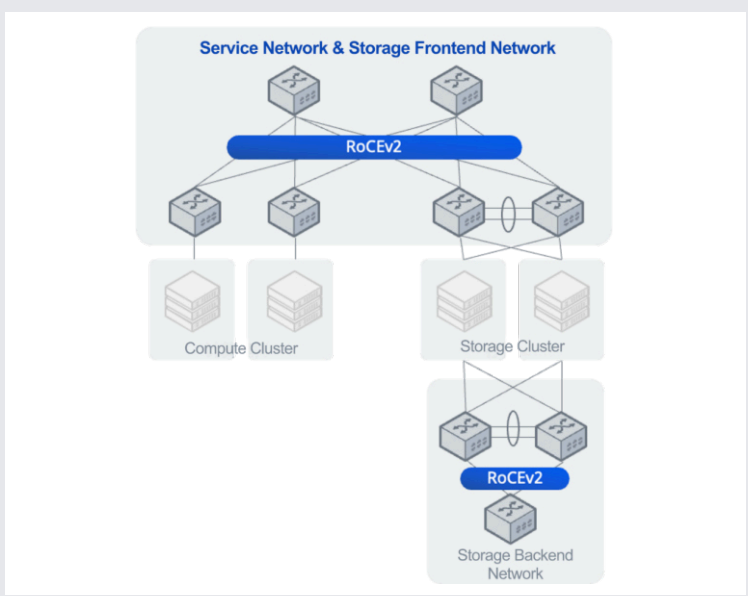
AI Fabric & Data Center Networks

- Neutral, open, high-performance RoCE networks
- One-stop construction of four networks: parameters, storage, services, & management
- Excellent large model and NCCL performance, outperforming IB in key metrics



General Cloud Networking

- Proven open cloud networking technologies and large-scale delivery experience
- Architecture fully benchmarking tier-1 cloud providers such as Google, Azure, AWS, & Meta



Distributed Storage Networks

- End-to-end storage read/write performance rivals IB, with selective performance advantages
- EasyRoCE helps storage O&M teams get started quickly

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AI Fabric Data Center & Cloud Switches

400G-1.6T AI Data Center Switches

AsterNOS

Asterfusion

Model Name	CX9128E-N	CX864E-N	CX764QO-N	CX764QD-N	CX764QH-N (PTP Optional)
Product Image					
Port Configuration	128× 800G MPO	64× 800G OSFP 2× 10G SFP+	64× 400G OSFP 2× 10G SFP+	64× 400G QSFP-DD 2× 10G SFP+	64× 400G QSFP112 1× 25G SFP28
Max. 1.6T Ports	64	-	-	-	-
Max. 800G Ports	128	64	-	-	-
Max. 400G Ports	256	128	64	64	64
Max. 200G Ports	512	256	128	128	128
Max. 100G Ports	512	512	256	256	256
Max. 40G Ports	-	-	-	-	-
Max. 25G Ports	-	512	-	512	513
Max. 10G Ports	-	2	-	2	-
Switching Capacity	102.4 Tbps	51.2 Tbps	25.6 Tbps	25.6 Tbps	25.6 Tbps
Forwarding Rate	-		28800 Mpps		21600 Mpps
Cut-through Latency	<450 ns		~560 ns		~700 ns
Packet Buffer	256 MB		200+ MB		120 MB
Switching Chip Model	Marvell Teralynx 100		Marvell Teralynx 10		Clounix
CPU	Intel Xeon-D or Marvell OCTEON 10				
Memory	32GB DDR4, extensible to 64GB		16GB DDR4, extensible to 64GB		
Storage	256GB M.2 SATA				
Management Interfaces	1 × RJ45 Console Port, 1 × RJ45 MGMT Port, 1 × USB 2.0 Port				
Hot-swap PSUs	4 (3+1)	2 (1+1)	2 (1+1)	2 (1+1)	2 (1+1)
Hot-swap Fans	4 (3+1)	4 (3+1)	4 (3+1)	4 (3+1)	4 (3+1)
Airflow Direction	-		Front-to-Rear		Front-to-Rear
Input Voltage (AC/DC)	-		200~240V AC / 200~320V DC		100~240V AC / 240V DC
PSU Rating	-	AC 3200W	AC 2700W	AC 2700W	AC 2400W
Power (Typ/Max)	-	1780W / 2400W	1560W / 2150W	1500W / 2100W	1500W / 2000W
Dimensions	-	440mm × 87mm × 650mm	440mm × 87mm × 650mm	440mm × 87mm× 640mm	440mm × 87mm × 760mm
Chassis & Weight	4U / -	2U / 25kg (55.1 lbs)	2U / 25kg (55.1 lbs)	2U / 23kg (50.71 lbs)	2U / 23kg (50.71 lbs)
Operating Temperature	0 – 40°C (32 – 104°F)				
Relative Humidity	5% - 90% (non-condensing)				

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AI Fabric Data Center & Cloud Switches

Powered by Teralynx 7 from Marvell AsterNOS

Asterfusion

Model Name	CX732Q-N	CX664D-N	CX564P-N	CX532P-N
Product Image				
Port Configuration	**32× 400G QSFP-DD 2× 10G SFP+**	**64× 200G QSFP56 2× 10G SFP+**	**64× 100G QSFP28 2× 10G SFP+**	**32× 100G QSFP28 2× 10G SFP+**
Max. 1.6T Ports	-	-	-	-
Max. 800G Ports	-	-	-	-
Max. 400G Ports	32	-	-	-
Max. 200G Ports	64	64	-	-
Max. 100G Ports	128	64	64	32
Max. 40G Ports	64	64	64	32
Max. 25G Ports	128	128	136	112
Max. 10G Ports	130	130	138	114
Switching Capacity	12.8 Tbps	12.8 Tbps	6.4 Tbps	3.2 Tbps
Forwarding Rate	7600 Mpps	7600 Mpps	7600 Mpps	6300 Mpps
Cut-through Latency	~500 ns			
Packet Buffer	70 MB			
Switching Chip Model	Marvell Teralynx 7			
CPU	Broadwell DE D-1508			
Memory	16GB DDR4 , extensible to 64GB			
Storage	256GB M.2 SATA			
Management Interfaces	1 × RJ45 Console Port, 1 × RJ45 MGMT Port, 1 × USB 2.0 Port			
Hot-swap PSUs	2 (1+1)	2 (1+1)	2 (1+1)	2 (1+1)
Hot-swap Fans	6 (5+1)	4 (3+1)	4 (3+1)	5 (4+1)
Airflow Direction	Front-to-Rear / Rear-to-Front			
Input Voltage (AC/DC)	100~240V AC / 36~72V DC / 180~300V DC			
PSU Rating	AC 1200W	AC 1300W / DC 1300W	AC 1300W / DC 1300W	AC 800W / DC 800W
Power (Typ/Max)	680W / 970W	630W / 950W	550W / 850W	470W / 710W
Dimensions	440mm × 44mm × 515mm	440mm × 87.7mm × 560mm	440mm × 87.7mm × 560mm	440mm × 44mm × 515mm
Chassis & Weight	1U / 12kg (26.46 lbs)	2U / 16kg (35.27 lbs)	2U / 16kg (35.27 lbs)	1U / 12kg (26.46 lbs)
Operating Temperature	0 – 40°C (32 – 104°F)	***Front-to-Rear:*** 0 – 40°C (32 – 104°F) / ***Rear-to-Front:*** 0 - 35°C (32 – 95°F)		
Relative Humidity	5% - 90% (non-condensing)			

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Data Center Switches

Powered by Prestera from Marvell AsterNOS

Asterfusion

Model Name	CX732Q-N-V2	CX532P-N-V2	CX308P-48Y-N-V2
Product Image			
Port Configuration	**32 × 400G QSFP-DD, 2 × 10G SFP+**	**32 × 100G QSFP28, 2 × 10G SFP+**	**8 × 100G QSFP28, 48 × 25G SFP28**
Max. 400G Ports	32	-	-
Max. 200G Ports	62	-	-
Max. 100G Ports	120	32	8
Max. 40G Ports	32	32	8
Max. 25G Ports	120	120	80
Max. 10G Ports	122	122	82
Max. 1G Ports	-	120	80
Switching Capacity	12.8 Tbps	3.2 Tbps	2.0 Tbps
Forwarding Rate	5600 Mpps	2800 Mpps	2600 Mpps
Cut-through Latency	~1500 ns	~1400 ns	~1400 ns
Packet Buffer	48 MB	24 MB	24 MB
Switching Chip Model	Marvell Prestera (Falcon)		
CPU	Intel Xeon-D or Marvell OCTEON 10		
Memory	16GB DDR4, extensible to 64GB		
Storage	256GB M.2 SATA		
Management Interfaces	1 × RJ45 Console Port, 1 × RJ45 MGMT Port, 1 × USB 2.0 Port		
Hot-swap PSUs	2 (1+1)		
Hot-swap Fans	6 (5+1)	5 (4+1)	4 (3+1)
Airflow Direction	Front-to-Rear	Front-to-Rear / Rear-to-front	Front-to-Rear / Rear-to-front
Input Voltage (AC/DC)	100~240V AC / 180~300V DC	100~240V AC / 36~72V DC / 180~300V DC	100~240V AC / 36~72V DC / 180~300V DC
PSU Rating	AC 1200W	AC 550W / DC 550W	AC 550W / DC 550W
Power (Typ/Max)	720W / 1000W	340W / 495W	272W / 480W
Dimensions	440mm × 44mm × 515mm	440mm × 44mm × 515mm	440mm × 44mm × 515mm
Chassis & Weight	1U / 12kg (26.46 lbs)	1U / 12kg (26.46 lbs)	1U / 10.5kg (23.15 lbs)
Operating Temperature	***Front-to-Rear:*** 0 – 40°C (32 – 104°F) / ***Rear-to-Front***: 0 - 35°C (32 – 95°F)		
Relative Humidity	5% - 90% (non-condensing)		

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AsterNOS for AI & Cloud DC

Software Features & Capabilities

Interface

- 10G/25G/40G/100G/200G/400G/800G/1.6T
- Interface Statistics
- Jumbo Frames (9216 Bytes)
- Digital Optical Monitoring (DOM)
- Virtual Interfaces

Layer 2 & Layer 3 Features

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

Virtualization Features

- 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
- DCI

Multicast

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

Quality of Service (QoS)

- 8 Queues per Port
- 802.1p-Based Classification
- DSCP-Based Classification
- Strict Priority/DWRR Queue Scheduling
- WRED
- Policing/Shaping
- Rate Limiting
- ECN
- PFC
- PFC Watchdog
- DCBX
- RoCEv2
- Easy RoCE (One-step Configuration)
- Fast CNP

AIDC Intelligent Features

- Adaptive Routing and Switching (ARS)
- Packet Spray
- Load Balance based on QP
- Static/Dynamic Intelligent Routing
- INT
- AIDC Dashboard

Security

- ACL for IPv4/v6
- Ingress/Egress ACL
- Storm Suppression
- TACACS+
- RADIUS
- CoPP

Reliability

- MC-LAG
- VRRPv2/v3
- EVPN Multi-Homing
- Monitor Link
- BFD

Management

- Asteria 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.x, SMPTE-2059-2, AES67
- PTP Clock Type: Grandmaster, BC, OC, T-GM, T-BC, T-BC-P, T-TSC, T-TSC-P
- SyncE
- AsterNOS Exporter (Prometheus)
- Grafana Dashboard

AsterNOS is pre-loaded on AIDC series with quarterly updates. Access community resources at: https://asternos.com/community/

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Asterfusion

03

ENTERPRISE & CAMPUS

Why Choose Our Campus Switches

SONiC
Pre-loaded Enterprise SONiC

10 ns
Class C PTP Accuracy

≤ 10ms
Wi-Fi Roaming Latency

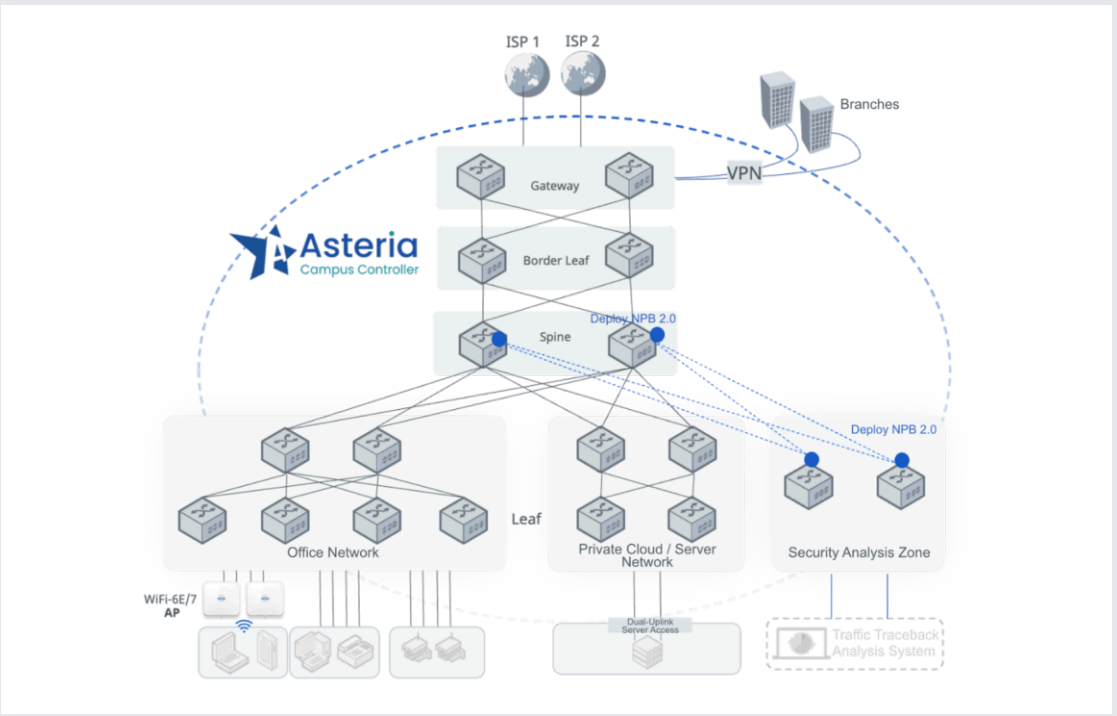
OpenWiFi
TELECOM INFRA PROJECT
Unified Management



- **Leaf-Spine Architecture**
  Layer 3 Anycast gateway with VXLAN + BGP EVPN, scaling to 65,535 Wi-Fi access points. AC-free design enables seamless roaming with zero service interruption.
- **SONiC + VPP Gateway**
  Industry's first SONiC + VPP campus gateway, delivering 100 Gbps performance with full L2-L7 features including NAT, BRAS, HQoS, and VPN.
- **Unified Management**
  OpenWiFi-compatible controller for wireless, wired Ethernet, gateway, and PON — all in one pane of glass.
- **Broadcast-Grade Phase Alignment**
  Built-in line-rate Class C PTP for frame-accurate phase alignment and audio lip-sync across SMPTE ST 2110 media fabrics — accelerating SDI-to-IP migration at open SONiC economics.

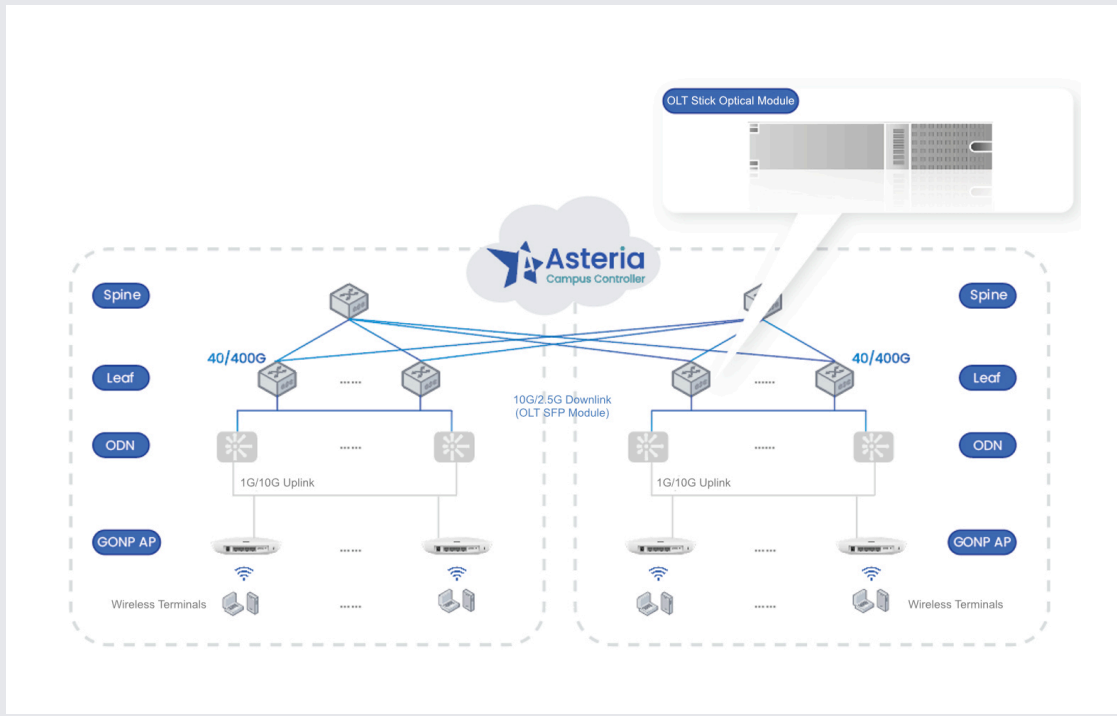
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Application Scenarios



Next-Gen Intelligent Campus Network

- All-Layer-3 routing architecture to eliminate broadcast storms
- Minute-level service provisioning and unified wired/wireless management

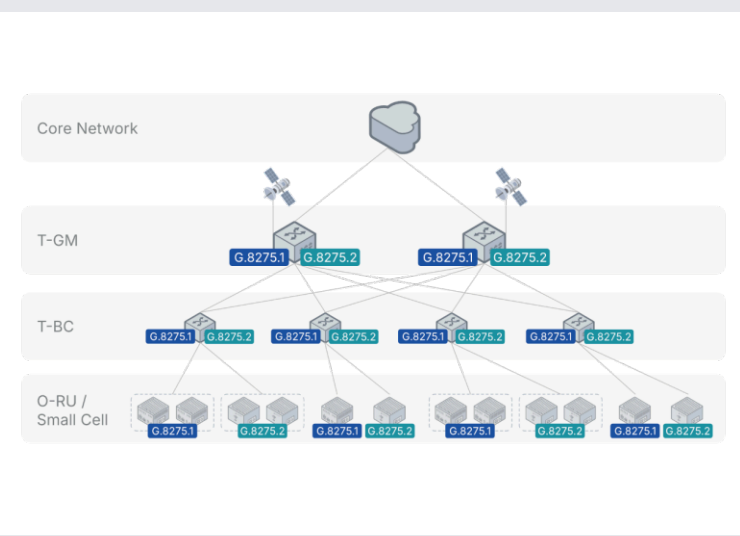


GPON Campus Solution

- Replace dedicated OLT equipment with OLT SFP modules
- Significant reduction in infrastructure investment, power, and cooling costs

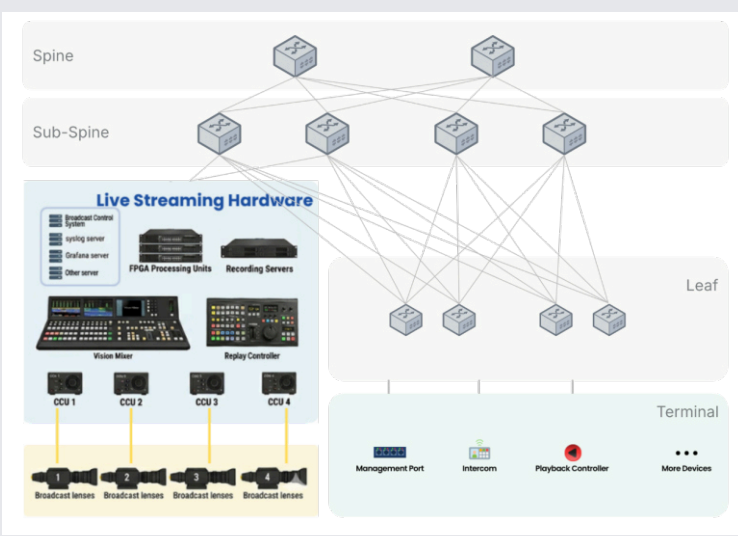
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Application Scenarios



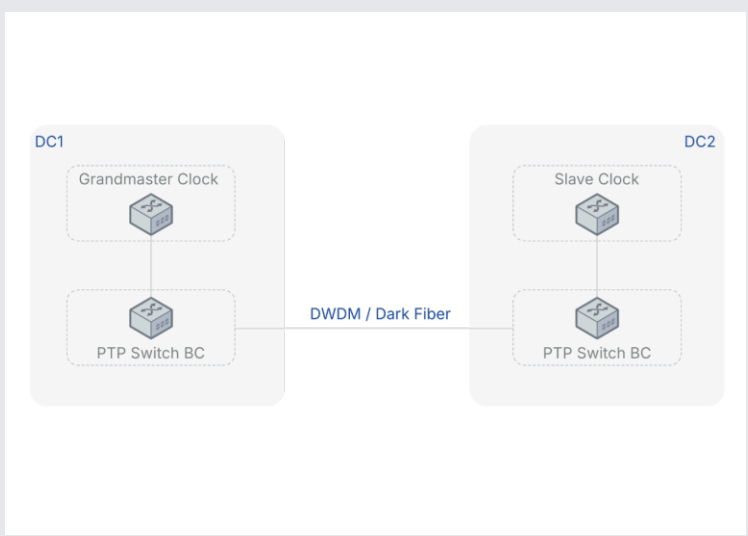
5G O-RAN Sync

- **ITU-T G.8275.x Sync**
  Telecom-grade 10 ns precision for O-RAN fronthaul.
- **SONiC Foundation**
  Open enterprise platform with RESTful APIs for SDN automation.
- **PoE++ Grandmaster**
  Simplifies smart cell and O-RAN deployment.



Live Broadcasting

- **10 ns PTP Precision**
  Class C accuracy with ST 2059-2 & AES67 for AV sync.
- **Multicast Fabric**
  IGMP/PIM-SM and VXLAN Multicast Underlay for AV-over-IP.
- **Flexible Deployment**
  1G–800G switches supporting GM/BC/TC roles.



Data Center Interconnection

- **PTP Class C Accuracy**
  Meets strict clock demands for cross-DC databases, AI clusters, and HFT.
- **SyncE + GNSS + PTP (1588v2)**
  Seamless DWDM integration for DCI sync and AI evolution.

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Enterprise & Campus Switches

Enterprise Core Switches

AsterNOS

Model Name	CX732Q-M-H	CX532P-M-H	CX308P-48Y-M-H	CX306P-48Y-M-H
Product Image				
Port Configuration	32 × 400GE QSFP-DD 2 × 10GE SFP+	32 × 100GE/40GE QSFP28 2 × 10GE SFP+	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			
PTP Accuracy Class (ITU-T G.8273.x)	≤10 ns (Class C)	≤10 ns (Class C)	≤10 ns (Class C)	≤10 ns (Class C)
CPU	Pentium D1508	Pentium D1508	Pentium D1508	Pentium D1508
Memory	16GB DDR4	16GB DDR4	16GB DDR4	16GB DDR4
Storage	256GB M.2 SATA	256GB M.2 SATA	256GB M.2 SATA	128GB M.2 SATA
Switching Chip Model	Marvell Prestera (Falcon)	Marvell Prestera (Falcon)	Marvell Prestera (Falcon)	Marvell Prestera (Falcon)
Switching Capacity	12.8 Tbps	3.2 Tbps	2.0 Tbps	2.0 Tbps
Input Voltage	100~240V AC	100-240V AC / 36-72V DC		
Max Power Consumption	1000W	495W	480W	480W (without DPU)
Dimensions	440mm × 44mm × 515mm	440mm × 44mm × 515mm	440mm × 44mm × 515mm	440mm × 44mm × 515mm
Weight	12.4kg (27.34 lbs)	12kg (26.46 lbs)	11.1kg (24.47 lbs)	10.5kg (23.15 lbs)
Power Supplies	1+1 Hot Pluggable PSUs	1+1 Hot Pluggable PSUs	1+1 Hot Pluggable PSUs	1+1 Hot Pluggable PSUs
Fans	5+1 Hot Pluggable Fans	4+1 Hot Pluggable 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	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)	0 – 45°C (32 – 113°F)	0 – 45°C (32 – 113°F)
Relative Humidity	10% - 90% (non-condensing)	10% - 90% (non-condensing)	10% - 90% (non-condensing)	10% - 90% (non-condensing)
Variants	PTP	PTP	PTP	PTP, GNSS, 1~2 DPUs, 1~2 AI Inference

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Enterprise & Campus Switches

Enterprise Aggregation Switches

AsterNOS

Asterfusion

Model Name	CX202P-24Y-M-H	CX206P-48S-M-H	CX206P-24S-M-H	CX202P-24S-M-H	CX202P-16S-M-H
Product Image					
Port Configuration	2 × 100GE/40GE QSFP28 24 × 25GE/10GE SFP28	6 × 100GE/40GE QSFP28 48 × 10GE SFP+	6 × 100GE/40GE QSFP28 24 × 10GE SFP+	2 × 100GE/40GE QSFP28 24 × 10GE SFP+	2 × 100GE/40GE QSFP28 16 × 10GE SFP+
Management Interface	1 × RJ45 Console Port, 1 × RJ45 MGMT Port, 1 × USB 2.0 Port				
PTP Accuracy Class (ITU-T G.8273.x)	≤50 ns (Class A)	≤50 ns (Class A)	≤50 ns (Class A)	≤50 ns (Class A)	≤50 ns (Class A)
CPU	OCTEON CN9130	OCTEON CN9130	OCTEON CN9130	OCTEON CN9130	OCTEON CN9130
Memory	4GB DDR4	4GB DDR4	4GB DDR4	4GB DDR4	4GB DDR4
Storage	32GB eMMC	32GB eMMC	32GB eMMC	32GB eMMC	32GB eMMC
Switching Chip Model	Marvell Prestera (Aldrin 3)	Marvell Prestera (ArmStrongLP)	Marvell Prestera (ArmStrongLP)	Marvell Prestera (Aldrin 2)	Marvell Prestera (Aldrin 2)
Switching Capacity	800 Gbps	1.09 Tbps	1.09 Tbps	1.09 Tbps	1.09 Tbps
Input Voltage	100-240V AC / 36-72V DC				
Max Power Consumption	168W	187W	165W	165W	165W
Dimensions	440mm × 44mm × 470mm	440mm × 44mm × 470mm	440mm × 44mm × 470mm	440mm × 44mm × 470mm	440mm × 44mm × 470mm
Weight	8.6kg (18.96 lbs)	9.1kg (20.06 lbs)	9kg (19.84 lbs)	9kg (19.84 lbs)	9kg (19.84 lbs)
Power Supplies	1+1 Hot Pluggable PSUs	1+1 Hot Pluggable PSUs	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	2+1 Hot Pluggable Fans	2+1 Hot Pluggable Fans
Air Flow	Front-to-Rear	Front-to-Rear	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)	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)	5% - 90% (non-condensing)	5% - 90% (non-condensing)
Variants	PTP	PTP	PTP	PTP	PTP

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Enterprise & Campus Switches

Enterprise Access Switches

AsterNOS

Model Name	CX204P-4Y48MT-M-H	CX206Y-48MT-M-H	CX206Y-24MT-M-H	CX206Y-48GT-M-H	CX206Y-24GT-M-H
Product Image					
Port Configuration	4 × 100GE/40GE QSFP28 4 × 25GE/10GE SFP28 48 × 2.5GE RJ45	6 × 25GE/10GE SFP28 48 × 2.5GE RJ45	6 × 25GE/10GE SFP28 24 × 2.5GE RJ45	6 × 25GE/10GE SFP28 48 × 1GE RJ45	6 × 25GE/10GE SFP28 24 × 1GE RJ45
PoE++ / PoE+ Port (Optional)	8 × PoE++ (Ports 1-8) 40 × PoE+ (Ports 9-48)	8 × PoE++ (Ports 1-8) 40 × PoE+ (Ports 9-48)	8 × PoE++ (Ports 1-8) 16 × PoE+ (Ports 9-24)	8 × PoE++ (Ports 1-8) 40 × PoE+ (Ports 9-48)	8 × PoE++ (Ports 1-8) 16 × PoE+ (Ports 9-24)
Management Interface	1 × RJ45 Console Port, 1 × RJ45 MGMT Port, 1 × USB 2.0 Port				
PTP Accuracy Class (ITU-T G.8273.x)	≤50 ns (Class A)	≤10 ns (Class C)	≤10 ns (Class C)	≤10 ns (Class C)	≤10 ns (Class C)
PoE Budget	740W or 1440W	740W or 1440W	740W	740W or 1440W	740W
CPU	OCTEON CN9130	Cortex-A55	Cortex-A55	Cortex-A55	Cortex-A55
Memory	4GB DDR4	4GB DDR4	4GB DDR4	4GB DDR4	4GB DDR4
Storage	32GB eMMC	32GB eMMC	32GB eMMC	32GB eMMC	32GB eMMC
Switching Chip Model	Marvell Prestera (AlleyCat 5P)	Marvell Prestera (AlleyCat 5X)	Marvell Prestera (AlleyCat 5X)	Marvell Prestera (AlleyCat 5X)	Marvell Prestera (AlleyCat 5X)
Switching Capacity	800 Gbps	210 Gbps	210 Gbps	210 Gbps	210 Gbps
Input Voltage	100-240V AC / 36-72V DC				
Max Power Consumption	246W (Without PoE)	70W (Without PoE)	70W (Without PoE)	70W (Without PoE)	70W (Without PoE)
Dimensions	440mm × 44mm × 470mm	440mm × 44mm × 470mm	440mm × 44mm × 470mm	440mm × 44mm × 470mm	440mm × 44mm × 470mm
Weight	9kg (19.84 lbs)	8.3kg (18.30 lbs)	8.3kg (18.30 lbs)	8.3kg (18.30 lbs)	8.3kg (18.30 lbs)
Power Supplies	1+1 Hot Pluggable PSUs	1+1 Hot Pluggable PSUs	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	2+1 Hot Pluggable Fans	2+1 Hot Pluggable Fans
Air Flow	Front-to-Rear	Front-to-Rear	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)	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)	5% - 90% (non-condensing)	5% - 90% (non-condensing)
Variants	PTP, PoE	PTP, PoE	PTP, GNSS, PoE	PTP, PoE	PTP, GNSS, PoE

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Enterprise & Campus Switches

Campus Aggregation & Access Switches

AsterNOS

Asterfusion

Model Name	CX204P-16Y-M-E	CX204P-24S-M-E	CX204Y-24MT-M-S	CX204Y-48GT-M-S	CX204Y-24GT-M-S
Product Image					
Port Configuration	4 × 100GE/40GE QSFP28 16 × 25GE/10GE SFP28	4 × 100GE/40GE QSFP28 24 × 10GE SFP+	4 × 25GE/10GE SFP28 24 × 2.5GE RJ45	4 × 25GE/10GE SFP28 48 × 1GE RJ45	4 × 25GE/10GE SFP28 24 × 1GE RJ45
PoE++ / PoE+ Port (Optional)	—	—	8 × PoE++ (Ports 1-8) 16 × PoE+ (Ports 9-24)	8 × PoE++ (Ports 1-8) 40 × PoE+ (Ports 9-48)	8 × PoE++ (Ports 1-8) 16 × PoE+ (Ports 9-24)
Management Interface	1 × RJ45 Console Port, 1 × RJ45 MGMT Port, 1 × USB 2.0 Port				
PTP Accuracy Class (ITU-T G.8273.x)	≤50 ns (Class A)	≤50 ns (Class A)	≤10 ns (Class C)	≤10 ns (Class C)	≤10 ns (Class C)
PoE Budget	—	—	740W	740W	370W or 740W
CPU	OCTEON CN9130	OCTEON CN9130	Cortex-A55	Cortex-A55	Cortex-A55
Memory	4GB DDR4	4GB DDR4	4GB DDR4	4GB DDR4	4GB DDR4
Storage	32GB eMMC	32GB eMMC	32GB eMMC	32GB eMMC	32GB eMMC
Switching Chip Model	Marvell Prestera (Aldrin 3)	Marvell Prestera (Aldrin 2)	Marvell Prestera (AlleyCat 5X)	Marvell Prestera (AlleyCat 5X)	Marvell Prestera (AlleyCat 5X)
Switching Capacity	800 Gbps	1.09 Tbps	210 Gbps	210 Gbps	180 Gbps
Input Voltage	100-240V AC / 36-72V DC				
Max Power Consumption	125W	125W	66W (Without PoE)	50W (Without PoE)	40W (Without PoE)
Dimensions	440mm × 44mm × 350mm	440mm × 44mm × 470mm	440mm × 44mm × 290mm	440mm × 44mm × 290mm	440mm × 44mm × 290mm
Weight	9kg (19.84 lbs)	9kg (19.84 lbs)	3.6kg (7.94 lbs)	3.8kg (8.38 lbs)	3.6kg (7.94 lbs)
Power Supplies	1+1 Hot Pluggable PSUs	1+1 Hot Pluggable PSUs	1 Fixed Power Module	1 Fixed Power Module	1 Fixed Power Module
Air Flow	Front-to-Rear	Front-to-Rear	Right-to-Left	Right-to-Left	Right-to-Left
Fans	3 Fixed Fan Modules	3 Fixed Fan Modules	2 Fixed Fan Modules (3 in PoE models)	2 Fixed Fan Modules (3 in PoE models)	2 Fixed Fan Modules (3 in PoE models)
Operating Temperature	0 – 45°C (32 – 113°F)	0 – 45°C (32 – 113°F)	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)	5% - 90% (non-condensing)	5% - 90% (non-condensing)
Variants	PTP	PTP	PTP, PoE	PTP, PoE	PTP, PoE

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Enterprise & Campus Switches

Entry Level Access Switches

AsterNOS

Asterfusion

Model Name	CX104S-8MT24GT-M-S	CX102S-8MT-M-S	CX102S-16GT-M-S	CX102S-8GT-M-S
Product Image				
Port Configuration	4 × 10GE SFP+ 8 × 2.5GE RJ45, 24 × 1GE RJ45	2 × 10GE SFP+ 8 × 2.5GE RJ45	2 × 10GE SFP+ 16 × 1GE RJ45	2 × 10GE SFP+ 8 × 1GE RJ45
PoE++ / PoE+ Port (Optional)	8 × PoE++ (Ports 9-16) 16 × PoE+ (Ports 17-32)	8 × PoE++ (Ports 1-8)	8 × PoE++ (Ports 1-8)	8 × PoE++ (Ports 1-8)
Management Interface	1 × RJ45 Console Port, 1 × RJ45 MGMT Port, 1 × USB 2.0 Port		1 × RJ45 Console Port, 1 × USB 2.0 Port	
PTP Accuracy Class (ITU-T G.8273.x)	—	≤50 ns (Class A)	≤50 ns (Class A)	≤50 ns (Class A)
PoE Budget	370W or 740W	150W	150W	150W
CPU	Cortex-A55	Cortex-A55	Cortex-A55	Cortex-A55
Memory	4GB DDR4	4GB DDR4	4GB DDR4	4GB DDR4
Storage	32GB eMMC	32GB eMMC	32GB eMMC	32GB eMMC
Switching Chip Model	Marvell Prestera (AlleyCat 5Y)	Marvell Prestera (AlleyCat 5Y)	Marvell Prestera (AlleyCat 5Y)	Marvell Prestera (AlleyCat 5Y)
Switching Capacity	86 Gbps	70 Gbps	70 Gbps	70 Gbps
Input Voltage	100-240V AC / 36-72V DC			
Max Power Consumption	50W (Without PoE)	19W (Without PoE)	21W (Without PoE)	18W (Without PoE)
Dimensions	440mm × 44mm × 290mm	215mm × 44mm × 310mm	215mm × 44mm × 310mm	215mm × 44mm × 310mm
Weight	3.6kg (7.94 lbs)	2.2kg (4.85 lbs)	2.2kg (4.85 lbs)	2.2kg (4.85 lbs)
Power Supplies	1 Fixed Power Module	1 Fixed Power Module	1 Fixed Power Module	1 Fixed Power Module
Air Flow	Right-to-Left	Front-to-Rear	Front-to-Rear	Front-to-Rear
Fans	2 Fixed Fan Modules (3 in PoE models)	2 Fixed Fan Modules	2 Fixed Fan Modules	2 Fixed Fan Modules
Operating Temperature	0 – 45°C (32 – 113°F)	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)	5% - 90% (non-condensing)
Variants	PoE	PTP, PoE	PTP, 1~2 DPUs, PoE	PTP, PoE

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Integrated Smart Switch CX306P-48Y-M-H

Application Scenarios

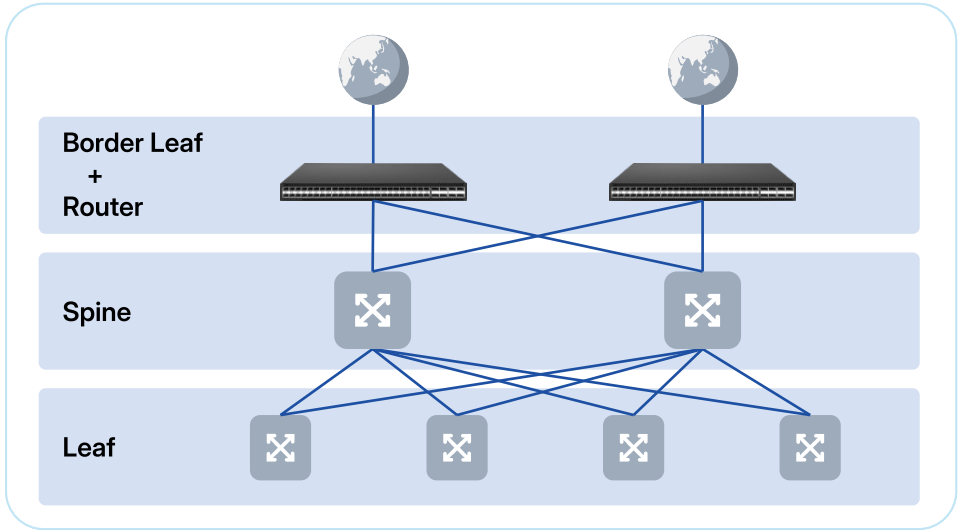
Scenario 1: Enterprise/Campus Network

Border Leaf with Embedded DPU Routing.

- Routing/NAT
- MS/Filter
- NetFlow
- ...





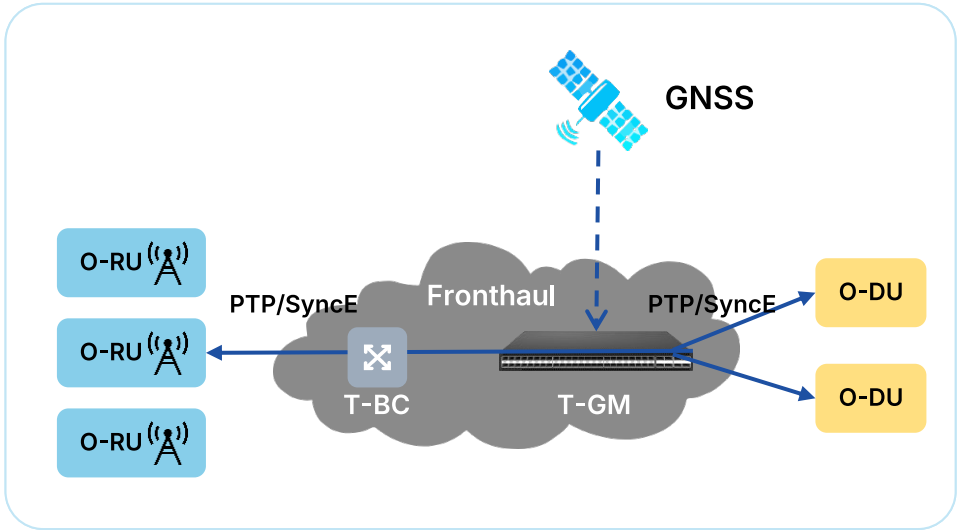


Scenario 2: Telecom Infrastructure

O-RAN Fronthaul Transport Switch with Integrated T-GM.



① 1PPS ② GNSS Antenna Input
③ 10MHz ④ ToD RJ45 Port



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AsterNOS for Enterprise & Campus Switches

Software Features & Capabilities

Interface

- 1G/2.5G/10G/25G/40G/100G/400G
- Interface Statistics
- Jumbo Frames (10218 Bytes)
- Digital Optical Monitoring (DOM)
- Virtual Interfaces

Layer 2 & Layer 3 Features

- 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

Quality of Service (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 Multi-Homing
- Monitor Link
- BFD

Management

- Asteria 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.x, SMPTE-2059-2, AES67
- PTP Clock Type: Grandmaster, BC, OC, T-GM, T-BC, T-BC-P, T-TSC, T-TSC-P
- SyncE

AsterNOS is pre-loaded on Enterprise & Campus series with quarterly updates. Access community resources at: https://asternos.com/community/

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Access Point

Wi-Fi 7/6E/6 Access Point

Model Name	AP7360	AP7341E	AP7330	AP6241E	AP6240	AP6031	AP6020	AP6020W
Product Image								
Wi-Fi Standard	**Wi-Fi 7 (802.11be)**	**Wi-Fi 7 (802.11be)**	**Wi-Fi 7 (802.11be)**	**Wi-Fi 6E (802.11ax)**	**Wi-Fi 6E (802.11ax)**	**Wi-Fi 6 (802.11ax)**	**Wi-Fi 6 (802.11ax)**	**Wi-Fi 6 (802.11ax)**
Wi-Fi Protocol	802.11a/b/g/n/ac/ax/be	802.11a/b/g/n/ac/ax/be	802.11a/b/g/n/ac/ax/be	802.11a/b/g/n/ac/ax	802.11a/b/g/n/ac/ax	802.11a/b/g/n/ac/ax	802.11a/b/g/n/ac/ax/be	802.11a/b/g/n/ac/ax
Max Data Rate	**18 Gbps**	**9.8 Gbps**	**9.3 Gbps**	**8.2 Gbps**	**8.2 Gbps**	**2.975 Gbps**	**2.975 Gbps**	**2.975 Gbps**
Spatial Streams	12-Stream (2.4G 4×4; 5G 4×4; 6G 4×4)	8-Stream (2.4G 4×4; 5G 2×2; 6G 2×2)	6-Stream (2.4G 2×2; 5G 2×2; 6G 2×2)	8-Stream (2.4G 2×2; 5G 4×4; 6G 2×2)	8-Stream (2.4G 2×2; 5G 4×4; 6G 2×2)	4-Stream (2.4GHz 2×2; 5GHz 2×2)	4-Stream (2.4G 2×2; 5G 2×2)	4-Stream (2.4G 2×2; 5G 2×2)
Channel Width	20/40/80/160/320 MHz	20/40/80/160/320 MHz	20/40/80/160/320 MHz	20/40/80/160 MHz	20/40/80/160 MHz	20/40/80/160 MHz	20/40/80/160 MHz	20/40/80/160 MHz
Multiple SSIDs	8 (2.4G) + 8 (5G) + 8 (6G)	8 (2.4G) + 8 (5G) + 8 (6G)	8 (2.4G) + 8 (5G) + 8 (6G)	8 (2.4G) + 8 (5.1G) + 8 (6G)	8 (2.4G) + 8 (5.1G) + 8 (6G)	8 (2.4G) + 8 (5G)	8 (2.4G) + 8 (5G)	8 (2.4G) + 8 (5G)
Network Ports	10GE SFP+, 10GE WAN, 2.5GE LAN	10GE SFP+, 10GE WAN	10GE SFP+, 2.5GE WAN, 2.5GE LAN	2.5GE WAN, 1GE LAN	2.5GE WAN, 1GE LAN	1 × 1GE WAN	1 × 1GE WAN, 1 × Serial	1 × 1GE WAN, 4 × 1GE LAN
Extra Interfaces	—	—	—	—	—	—	—	2×Passthrough, USB, Serial
Antenna Type	Built-in Omnidirectional	External Omnidirectional	Built-in Omnidirectional	External Omnidirectional	Built-in Omnidirectional	Built-in Omnidirectional	Built-in Omnidirectional	Built-in Omnidirectional
Antenna Gain	2.4GHz: 1.7dBi 5GHz/6GHz: 4dBi	2.4GHz: 6dBi 5GHz/6GHz: 6dBi	2.4GHz: 1.7dBi 5GHz/6GHz: 4dBi	2.4GHz: 4dBi 5GHz/6GHz: 4dBi	2.4GHz: 4dBi 5GGHz/6GHz: 4dBi	2.4GHz: 2×6dBi 5GHz: 2×6dBi	2.4GHz: 4dBi 5GHz: 4dBi	2.4GHz: 1.7dBi 5GHz: 2.9dBi
Power Supply	DC 54V 1A; PoE 802.3bt	DC 54V 1A; PoE 802.3bt	DC 12V 3A; PoE 802.3bt	DC 12V 3A; PoE 802.3bt	DC 12V 3A; PoE 802.3at	DC 12V/2A; PoE 802.3at	DC 12V 1.5A; PoE 802.3at	DC 12V 1.5A; PoE 802.3at
Max Consumption	< 60W (Max)	< 54W (Max)	< 36W (Max)	< 30W (Max)	< 28W (Max)	< 16W (Max)	< 16W (Max)	< 18W (Max)
Dimensions (mm)	220 × 220 × 42	243.2 × 218.3 × 68.3	208 × 208 × 46	295 × 231 × 80	Φ218 × 54.6 (Round)	304 × 181 × 88	186 × 186 × 37	160 × 86 × 29
Installation	Indoor Ceiling-mount	Outdoor (w/ optional GPS)	Indoor Ceiling-mount	Outdoor (w/ optional GPS)	Ceiling-mounted	Outdoor Pole or Wall-mount	Ceiling-mounted	Wall-plate (Panel)
Operating Temp	-10°C – 55°C	-40°C – 70°C	-10°C – 55°C	-30°C – 55°C	-20°C – 55°C	-20°C – 55°C	-10°C – 55°C	-20°C – 40°C
Storage Temp	-40°C – 70°C	-40°C – 70°C	-40°C – 70°C	-40°C – 70°C	-40°C – 70°C	-40°C – 70°C	-40°C – 70°C	-40°C – 70°C

All APs support Asterfusion's OpenWiFi Enterprise Edition.

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Access Point

PON Access Point

Model Name	AP7020F	AP6020F	AP6020WF
Product Image			
Wi-Fi Standard	**Wi-Fi 7 (802.11be)**	**Wi-Fi 6 (802.11ax)**	**Wi-Fi 6 (802.11ax)**
Wi-Fi Protocol	802.11a/b/g/n/ac/ax/be	802.11a/b/g/n/ac/ax	802.11a/b/g/n/ac/ax
Max Data Rate	**3.6 Gbps**	**2.975 Gbps**	**2.975 Gbps**
Spatial Streams	4-Stream (2.4GHz: 2×2; 5GHz: 2×2)	4-Stream (2.4GHz: 2×2; 5GHz: 2×2)	4-Stream (2.4GHz: 2×2; 5GHz: 2×2)
Channel Width	20/40/80/160 MHz	20/40/80/160 MHz	20/40/80/160 MHz
Multiple SSIDs	8 (2.4G) + 8 (5G)	8 (2.4G) + 8 (5G)	8 (2.4G) + 8 (5G)
Network Ports	**1 × XGSPON**, 4 × 1GE LAN	**1 × GPON**, 4 × 1GE LAN	**1 × GPON**, 4 × 1GE LAN
Extra Interfaces	—	1 × USB serial	—
Antenna Type	Built-in Omnidirectional	Built-in Omnidirectional	Built-in Omnidirectional
Antenna Gain	2.4GHz: 2×4dBi; 5GHz: 2×4dBi	2.4GHz: 2×3dBi; 5GHz: 2×4dBi	2.4GHz: 2×3dBi; 5GHz: 2×3.3dBi
Power Supply	DC 12V/2A; PoF 48V; DC 48V 1A	DC 12V/1.5A; PoF 48V; DC 48V 1A	PoF 48V; DC 48V 1A
Max Consumption	< 16W (Max)	< 18W (Max)	< 14W (Max)
Dimensions (mm)	190 × 190 × 50	190 × 190 × 50	86 × 86 × 48
Installation	Ceiling-mounted	Ceiling-mounted	Panel
Operating Temp	-10°C – 55°C	-10°C – 55°C	-10°C – 45°C
Storage Temp	-40°C – 70°C	-40°C – 70°C	-40°C – 70°C

All APs support Asterfusion's OpenWiFi Enterprise Edition.

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Access Point

Software Features & Capabilities

Wi-Fi / Radio Features

- Support for Wi-Fi 7 (802.11be) with backward compatibility
- Advanced multi-user technologies: OFDMA, MU-MIMO, BSS Coloring
- Fast roaming support: 802.11k / 802.11v / 802.11r
- Multicast-to-Unicast conversion
- Multiple SSID support
- Client isolation (based on SSID and VLAN)
- DFS (Dynamic Frequency Selection)
- ACS (Automatic Channel Selection)
- Configurable RF on/off
- Configurable per-radio client capacity
- Configurable radio parameters: Channel selection, Channel bandwidth, MIMO mode, Transmit power

Network Features

- VLAN support (IEEE 802.1Q)
- VXLAN tunneling (encapsulation)
- DHCP Client and DHCP Server
- Static management IP address
- Access Control Lists (ACL)
- LLDP (Link Layer Discovery Protocol)
- Optical module detection (SFP/SFP+ monitoring)
- Quality of Service (QoS): Traffic rate limiting, Priority-based traffic scheduling

Security Features

- Comprehensive wireless security: WPA / WPA2 / WPA3 / SAE
- AAA (Authentication, Authorization, Accounting): Portal authentication (Portal 2.0), RADIUS authentication, MAC authentication, Dynamic VLAN assignment, and Accounting support
- Emergency SSID (fail-safe SSID for network access)

Management & Maintenance

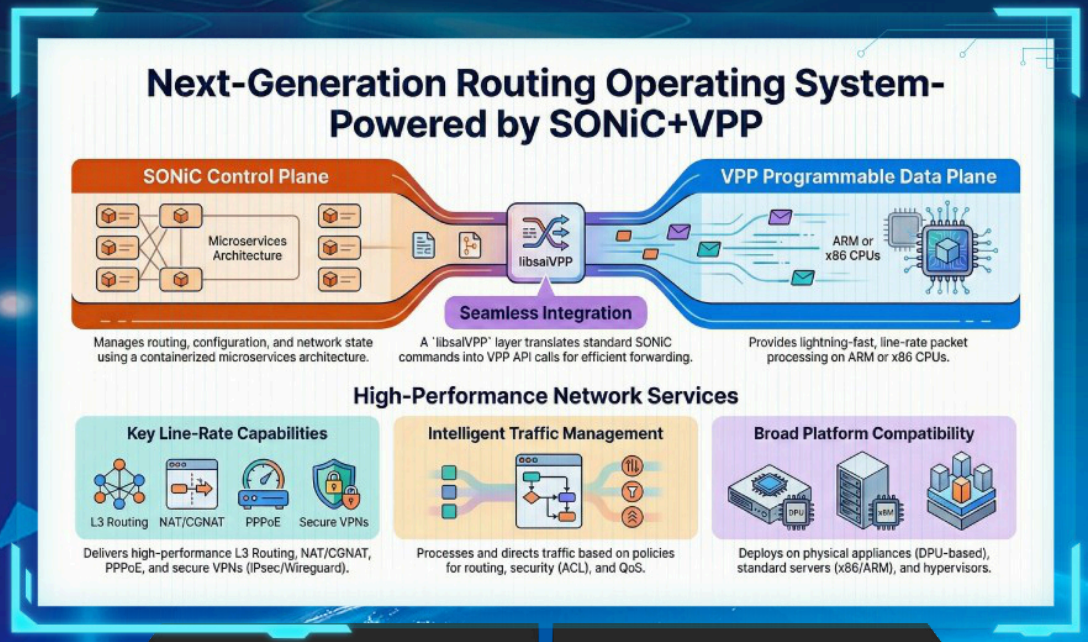
- NTP (Network Time Protocol)
- Standard uCentral interface for reporting: AP status and inventory, Client information, Health and performance metrics
- Device lifecycle management: Firmware upgrade, reboot and factory reset, patch deployment
- ZTP (Zero Touch Provisioning)
- Secure remote access via SSH
- Cloud-based packet capture
- System logging and Syslog client support
- Client event tracking, including: Association/disassociation, DHCP events, Access rejections
- One-click log collection
- OpenWiFi 4.2 Compatible

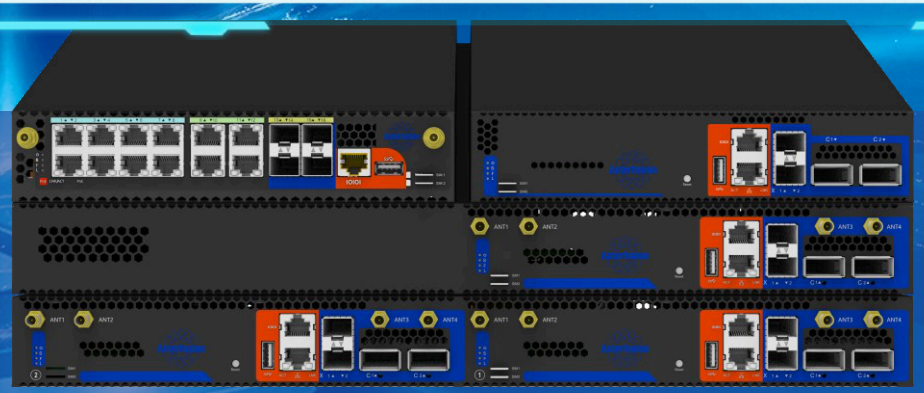
AsterAPNOS is sold separately and pre-installed on the Access Point series, with quarterly updates. Access community resources at: https://asternos.com/community/

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High-Performance Open Routing

- **SONiC + VPP**
  SONiC-based Control Plane + VPP as Data Plane.
- **Advanced Features**
  VPN (IPsec/WireGuard), CGNAT/MAP-E/MAP-T, HQoS, PPPoE Sever GeoSite/GeoIP-based routing and security control.
- **Flexible Deployment**
  ARM-based appliance with Marvell OCTEON CN102/103, or x86 platform.
- **Rich Management API**
  Klish, REST API, NETCONF, uCentral for OpenWiFi.





SONiC & VPP

Pre-loaded

Open Routing Stack

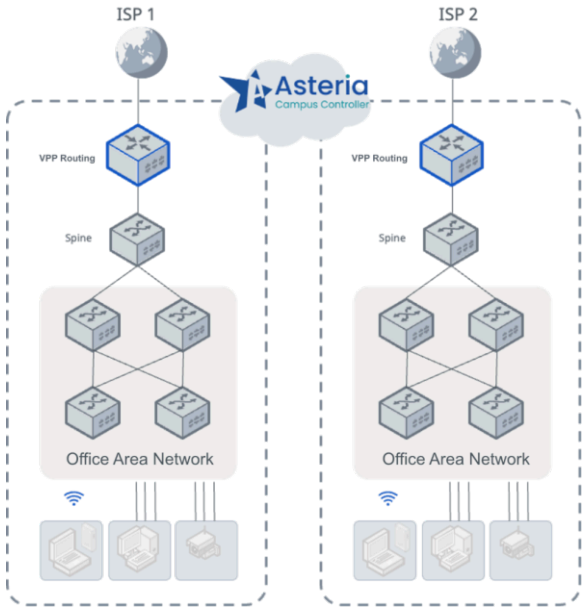
Marvell OCTEON 10

High-Performance

DPU Engine

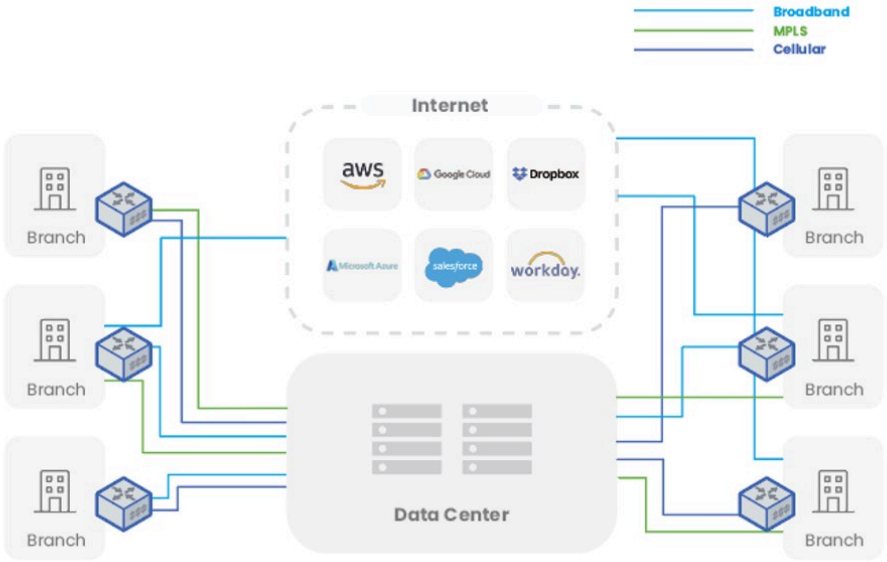
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Application Scenarios



Multi-Branch Enterprise Unified Edge Gateway

- Unified management of branch gateway devices across multiple locations by the Asteria Campus Controller (ACC) controller
- VRRP dual-device backup support



SD-WAN (Software-Defined Wide Area Network)

- Supports multiple physical interfaces for accessing diverse WAN links
- Application- and source-IP-based traffic scheduling
- Hardware-accelerated IPsec VPN

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Enterprise Edge Router Series

Pre-loaded AsterNOS-VPP

Model Name	RT2508-4S4M8	RT2700-2P2S	RT3608-2P2S	RT3616-4P4S
Product Image				
Processor	1 × Marvell OCTEON 10 CN102XX 8 Core ARM64 N2 @2.5GHz	1 × Marvell OCTEON 10 CN103XX 8 Core ARM64 N2 @2.5GHz	1 × Marvell OCTEON 10 CN103XX 8 Core ARM64 N2 @2.5GHz	1 × Marvell OCTEON 10 CN103XX 8 Core ARM64 N2 @2.5GHz
Network Interfaces	4 × 10GE SFP+, 4 × 2.5GE RJ45 (Supports PoE++ Option), 8 × 1GE RJ45 (Supports PoE+ Option)	2 × 100GE QSFP28 2 × 10GE SFP+	2 × 100GE QSFP28 2 × 10GE SFP+	2 × 2 × 100GE QSFP28 2 × 2 × 10GE SFP+
Management Interfaces	1 × USB3.0, 1 × Console RJ45	1 × USB3.0, 1 × Console RJ45, 1 × MGMT RJ45	1 × USB3.0, 1 × Console RJ45, 1 × MGMT RJ45	2 × USB3.0, 2 × Console RJ45, 2 × MGMT RJ45
NOS	Pre-loaded perpetual licensed **AsterNOS-VPP** Software and 1-year upgrade subscription			
Cache Capacity	L2 8MB, L3 16MB			
PTP Accuracy Class (Optional)	Class A	Class A	Class A	Class A
Switching Capacity	58 Gbps	220 Gbps	220 Gbps	2 × 220 Gbps
Routing Capacity	50 Gbps	100 Gbps	100 Gbps	2 × 100 Gbps
Enc / Dec Capacity	50 Gbps	100 Gbps	100 Gbps	2 × 100 Gbps
Memory	16GB DDR5 (Max 48GB)	16GB DDR5 (Max 48GB)	16GB DDR5 (Max 48GB)	2 × 16GB DDR5 (Max 2 × 48GB)
eMMC	64GB eMMC 5.1	64GB eMMC 5.1	64GB eMMC 5.1	64GB eMMC 5.1
SSD (Optional)	1 × M.2 NVMe	1 × M.2 NVMe	1 × M.2 NVMe	2 × M.2 NVMe
Power Supply	1 × Fixed PSU (AC 100-240V) 1 × 150W (w/o PoE), 1 × 270W (PoE)	1 Fixed PSU (AC 100-240V)	1+1 Hot Pluggable PSU (AC 100-240V)	1+1 Hot Pluggable PSU (AC 100-240V)
Fan	2 × Fixed Fan Modules	2 × Fixed Fan Modules	1+1 Hot Pluggable Fan Modules	2+1 Hot Pluggable Fan Modules
PoE Support	Optional (Max 150W Budget)	—	—	—
Dimensions	44mm × 220mm × 310mm / Half-width 1U	44mm × 215mm × 310 mm / Half-width 1U	44mm × 440mm × 470mm / 1U	44mm × 440mm × 470mm / 1U
Installation	Desktop / Rack-mount	Rack-mount	Rack-mount	Rack-mount
Operating Temperature	0 – 45°C (32 – 113°F)	0 – 45°C (32 – 113°F)	0 – 45°C (32 – 113°F)	0 – 45°C (32 – 113°F)
Relative Humidity	5% - 95% (non-condensing)	5% - 95% (non-condensing)	5% - 95% (non-condensing)	5% - 95% (non-condensing)
Max Power Consumption	< 60W (Full Configuration and Workload)	< 85W (Full Configuration and Workload)	< 100W (Full Configuration and Workload)	< 200W (Full Configuration and Workload)

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AsterNOS-VPP for Router & Gateway

Software Features & Capabilities

Interface
- 1G/2.5G/10G/40G/100G
- Interface Statistics
- Jumbo Frames (9122 Bytes)
- Digital Optical Monitoring (DOM)
- LAN / WAN Interface
- Wi-Fi Interface
- Virtual Interfaces

Layer 2 & Layer 3 Features
- 4096 VLANs
- STP, MSTP
- QinQ
- LLDP
- BGP, MP-BGP
- OSPF v2/v3
- IS-IS
- RIP v1/v2
- Policy Based Routing (PBR)
- Static Routing
- Route Map
- VRF
- ECMP

Multicast
- IPv4/IPv6 Multicast Routing
- IGMP Snooping & Querier
- PIM-SSM & ASM
- PIM SPT
- PIM over PHY/VLAN/LAG

MPLS
- Static LSP
- MPLS LDP
- VPWS
- VPLS
- L3VPN

IP Service
- ARP, NDP
- DHCPv4/v6
- DNS
- Source and Destination NAT
- CGNAT
- MAP-E
- MAP-T

Tunnel
- Static/Dynamic VXLAN
- IPsec VPN (Hardware offload)
- Wireguard VPN
- PPPoE (Client & Server)

Security
- ACL for IPv4/v6
- Ingress/Egress ACL
- Storm Suppression
- DAI
- 802.1x Authentication
- Portal Authentication
- Stateless/Stateful ACL
- GeoIP/GeoSite ACL
- Stateful Packet Inspection(SPI)
- IPSG v4/v6
- Unicast Reverse Path Forwarding (uRPF)

Quality of Service (QoS)
- 8 Queues per Port
- 802.1p-Based Classification
- DSCP-Based Classification
- Strict Priority/DWRR Queue Scheduling
- Policing/Shaping
- Rate Limiting
- HQoS (Subscriber/User/User-group, Service-Level)

Reliability
- MC-LAG
- VRRPv2/v3
- BFD
- Monitor Link
- SLA
- Routing Track

Management
- Console, SSH, Telnet
- RESTful API, uCentral
- Industry Standard CLI (Klish)
- ZTP
- Syslog
- SNMP v1/v2/v3
- SPAN/ERSPAN
- NetFlow/IPFIX
- AsterNOS Exporter (Prometheus)

AsterNOS-VPP is sold separately and pre-loaded on Router & Gateway series with quarterly updates. Access community resources at: https://asternos.com/community/

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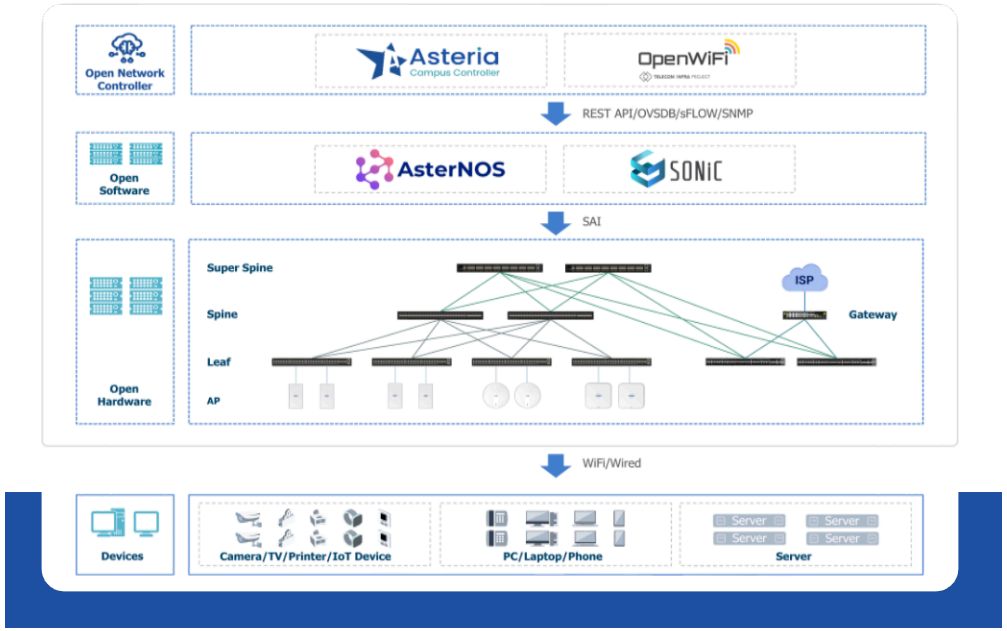
Asteria: Unified Full-Stack Campus Network Controller

A TIP-based OpenWiFi-compatible platform providing seamless orchestration for complex wired, wireless, and PON infrastructures.

- **MSP-Friendly Architecture:**
  SaaS on Cloud or On-premises installation with multi-tenant and multi-site management, which is suitable for Managed Service Providers' business model.

- **Unified Full-Stack Visibility:**
  Drag-and-drop customizable dashboard covering overall network health, device diagnostics, GPON stick status, and terminal information.





- **Zero Touch Provisioning and Rapid Service Activation:**
  Using built-in templates to pre-design topology, the devices can quickly obtain automatically generated configurations after power-on.

- **Integrated Service Suite:**
  Built-in AAA servers and NAC systems without third-party licenses, supporting 802.1X, MAB, Portal authentication (account / password or OAuth2.0) with custom portal pages.

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Asterfusion

04

DPU PLATFORMS

DPU Bare Metal Platforms

Open Networking Appliance | Ready for Custom Integration

Model Name	ET2508-4S4M8	ET2700-2P2S	ET3608-2P2S	ET3616-4P4S	ET3212A	ET3424A
Product Image						
Processor	1× Marvell OCTEON 10 CN102XX 8 Core ARM64 N2 @2.5GHz	1× Marvell OCTEON 10 CN103XX 8 Core ARM64 N2 @2.5GHz	1× Marvell OCTEON 10 CN103XX 8 Core ARM64 N2 @2.5GHz	1× Marvell OCTEON 10 CN103XX 8 Core ARM64 N2 @2.5GHz	1× Marvell OCTEON TX2 CN9670 (24-Core)@2.2GHz	2× Marvell OCTEON TX2 CN9670 (24-Core)@2.2GHz
Network Interfaces	4 × 10GE SFP+, 4 × 2.5GE RJ45 8 × 1GE RJ45 (PoE Optional)	2 × 100GE QSFP28 2 × 10GE SFP+	2 × 100GE QSFP28 2 × 10GE SFP+	2× 2× 100GE QSFP28 2×2× 10GE SFP+	2 × 100GE/40GE QSFP28/QSFP+ 12 × 10GE SFP+	2× 2× 100GE/40GE QSFP28/QSFP+ 2× 12× 10GE SFP+
Management Interfaces	1 × USB3.0 1 × Console RJ45	1 × USB3.0, 1 × Console RJ45 1 × MGMT RJ45	1 × USB3.0, 1 × Console RJ45 1 × MGMT RJ45	2 × USB3.0, 2 × Console RJ45 2 × MGMT RJ45	1 × USB2.0, 1 × Console RJ45 1 × MGMT RJ45	2 × USB2.0, 2 × Console RJ45 2 × MGMT RJ45
L3 Throughput	50 Gbps	100 Gbps	100 Gbps	2 × 100 Gbps	—	—
PTP Accuracy Class (Optional)	Class A	Class A	Class A	Class A	—	—
Memory	16GB DDR5 (Max 48GB)	16GB DDR5 (Max 48GB)	16GB DDR5 (Max 48GB)	2 × 16GB DDR5 (Max 48GB)	24GB DDR4(Max 192GB)	2× 24GB DDR4(Max 192GB)
Storage	64GB eMMC 5.1	64GB eMMC 5.1	64GB eMMC 5.1	2 × 64GB eMMC 5.1	64GB eMMC 5.1	2 × 64GB eMMC 5.1
Expansion Slots	M.2 E Key (Wi-Fi 6E / 7) M.2 B Key (5G / LTE) M.2 M Key (AI / NVMe SSD)	M.2 B Key (5G/LTE) M.2 M Key (AI / NVMe SSD)	M.2 B Key (5G/LTE) M.2 M Key (AI / NVMe SSD)	M.2 B Key (5G/LTE) 2 × M.2 M Key (AI / NVMe SSD)	M.2 B Key (5G/LTE) 2 × M.2 M Key (AI / NVMe SSD)	M.2 B Key (5G/LTE) 2 × 2 × M.2 M Key (AI / NVMe SSD)
AI Capabilities	Up to 160 TOPS elastic AI computing performance, Up to 100 TFLOPS @ bFP16				—	
Power Supply	1 × Fixed PSU (AC 100-240V) 1 × 150W (w/o PoE) / 1 × 270W(PoE)	1 Fixed PSU (AC 100-240V)	1+1 Hot Pluggable PSU (AC 100-240V)	1+1 Hot Pluggable PSU (AC 100-240V)	1+1 Hot Pluggable PSU (AC 100-240V/DC 36-72V)	1+1 Hot Pluggable PSU (AC 100-240V/DC 36-72V)
Fan	2 × Fixed Fan Modules	2 × Fixed Fan Modules	1+1 Hot Pluggable Fan Modules	2+1 Hot Pluggable Fan Modules	2+1 Hot Pluggable Fan Modules	4+1 Hot Pluggable Fan Modules
PoE Support	Optional (Max 150W Budget)	—	—	—	—	—
Dimensions	44×220×310 mm / Half-width 1U	44×215×310 mm / Half-width 1U	44×440×470 mm / Standard 1U	44×440×470 mm / Standard 1U	44×440×560 mm / Deep 1U	44×440×560 mm / Deep 1U
Installation	Desktop / Rack-mount	Rack-mount	Rack-mount	Rack-mount	Rack-mount	Rack-mount
Operating Temperature	0 – 45°C (32 – 113°F)	0 – 45°C (32 – 113°F)	0 – 45°C (32 – 113°F)	0 – 45°C (32 – 113°F)	0 – 45°C (32 – 113°F)	0 – 45°C (32 – 113°F)
Relative Humidity	5% - 95% (non-condensing)	5% - 95% (non-condensing)	5% - 95% (non-condensing)	5% - 95% (non-condensing)	10% - 90% (non-condensing)	10% - 90% (non-condensing)
Energy Consumption	< 60W (Full Configuration)	< 85W (Full Configuration)	< 100W (Full Configuration)	< 200W (Full Configuration)	300W	500W

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High-Performance SmartNIC Series

SmartNIC

Model Name	Helium EC2002P	Helium EC2004Y	RNIC802E
Product Image			
Main Chip	**Marvell OCTEON TX2 CN9670 (DPU)**	**Marvell OCTEON TX2 CN9670 (DPU)**	**Altera Agilex AGIB027 (FPGA)**
Cores/Logic	24-core ARM64	24-core ARM64	Quad-core ARM Cortex-A53
Host Interface	PCIe Gen4.0 × 8	PCIe Gen4.0 × 8	PCIe Gen5.0 × 16
Network Interface	2 × 100G QSFP28	4 × 25G SFP28	2 × 400G QSFP-DD
Throughput	120 Mpps (Max)	120 Mpps (Max)	Line Rate (up to 400G)
Memory	16GB-64GB DDR4	16GB-64GB DDR4	0-64GB DDR4 ECC
Storage	64GB eMMC 5.1	64GB eMMC 5.1	2Gbit Flash; MicroSD
NVMe Expansion	—	—	4 × MCIO × 8 (Up to 8 × SSD)
Offload Support	OVS, IPsec, SSL, 5G-UPF	OVS, IPsec, SSL, 5G-UPF	Custom RTL / P4
Software/OS	FusionNOS, DPDK, VPP	FusionNOS, DPDK, VPP	Quartus, ModelSim
Management	Micro USB, RJ45 Console	Micro USB, RJ45 Console	JTAG, USB-to-UART, 1G Management Port
Power Consumption	Max 60W; Typical 45W	Max 60W; Typical 45W	TDP 150W
Dimensions	111.15mm × 18.91mm × 194.35mm	111.15mm × 18.91mm × 178.48mm	111.15mm × 18.91mm × 218.48mm
Environment	0 – 35°C (32 – 95°F)	0 – 35°C (32 – 95°F)	0 – 35°C (32 – 95°F)

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Asterfusion

STANDALONE NETWORK OPERATING SYSTEMS

05

When you need our industry-leading Network Operating Systems to empower your existing infrastructure, Asterfusion offers a suite of independent software editions designed for seamless integration with third-party hardware.

Whether optimizing data centers with **AsterNOS for Broadcom**, accelerating user-space processing with **AsterNOS-VPP**, or orchestrating campus networks with **AsterAPNOS**, our software delivers enterprise-grade reliability and quarterly updates across validated white-box and server platforms.

AsterNOS for Broadcom

Hardware Compatibility List (HCL)

Below are validated platforms for our suite.

Chipset Platform: Broadcom Trident 3 (TD3)

- **ACCTON:** AS7726-32X / DCS6500-48Z8C
- **CELESTICA:** DS2000 / DS3000
- **Community-Whitelisted TD3 Platforms**

Software Features & Capabilities

Interface

- 10G/25G/40G/100G
- Interface Statistics
- Jumbo Frames (9216 Bytes)
- Digital Optical Monitoring (DOM)
- Virtual Interface

Layer 2 & Layer 3 Features

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

Virtualization Features

- VRF
- Static/Dynamic VXLAN
- VXLAN Centralized/Distributed Gateway
- EVPN Type 1/2/3/4/5
- Anycast Gateway
- Inter-VRF Route Leaking
- Dynamic Route Population
- Symmetric IRB
- DCI

Quality of Service (QoS)

- 8 Queues per Port
- 802.1p-Based Classification
- DSCP-Based Classification
- Strict Priority/DWRR Queue Scheduling
- WRED
- Policing/Shaping
- ECN
- PFC
- PFC Watchdog

Security

- ACL for IPv4/v6
- Ingress/Egress ACL
- Storm Suppression
- TACACS+
- RADIUS
- CoPP

Reliability

- MC-LAG
- VRRP v2/v3
- EVPN Multi-Homing
- Monitoring Link
- BFD

Management

- Console, SSH, Telnet, REST API, NETCONF
- Industry Standard CLI(Klish)
- ZTP
- Syslog
- sFlow
- SNMP v1/v2/v3
- SPAN, ERSPAN
- AsterNOS Exporter (Prometheus)
- RoCE Status
- Grafana Dashboard

AsterNOS for Broadcom is sold separately, with quarterly updates. Access community resources at : https://asternos.com/community/

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AsterNOS-VPP for x86 Platform

Hardware Compatibility List (HCL)

Below are validated platforms for the software suite:

Network Adapter Compatible List (VPP)

- **Intel:** Standard & QAT Devices
- **Broadcom:** NetXtreme S & E Series
- **Amazon:** Elastic Network Adapter (ENA)
- **Cisco:** Virtual Interface Card (VIC)
- **Google:** vNIC
- **Chelsio:** T4/T5
- **Marvell (Cavium):** Legacy Cavium Adapters
- **Marvell (QLogic):** FastlinQ QL41000 Series
- **Mellanox:** ConnectX Series (Support Pending)

Software Features & Capabilities

Interface

- Port Speed (NIC-dependent)
- Interface Statistics
- Jumbo Frames (9122 Bytes)
- Digital Optical Monitoring (DOM)
- Virtual Interfaces

Layer 2 & Layer 3 Features

- 4096 VLANs
- STP, MSTP
- QinQ
- LLDP
- BGP, MP-BGP
- OSPF v2/v3
- IS-IS
- RIP v1/v2
- Policy Based Routing (PBR)
- Static Routing
- Route Map
- VRF
- ECMP

Multicast

- IPv4/IPv6 Multicast Routing
- IGMP Snooping & Querier
- PIM-SSM & ASM
- PIM SPT
- PIM over PHY/VLAN/LAG

MPLS

- Static LSP
- MPLS LDP
- VPWS
- VPLS
- L3VPN

IP Service

- ARP, NDP
- DHCPv4/v6
- DNS
- Source and Destination NAT
- CGNAT
- MAP-E
- MAP-T

Tunnel

- Static/Dynamic VXLAN
- IPsec VPN
- WireGuard VPN
- PPPoE (Client & Server)

Security

- ACL for IPv4/v6
- Ingress/Egress ACL
- Storm Suppression
- DAI
- 802.1x Authentication
- Portal Authentication
- Stateless/Stateful ACL
- GeoIP/GeoSite ACL
- Stateful Packet Inspection(SPI)
- IPSG v4/v6
- Unicast Reverse Path Forwarding (uRPF)

Quality of Service (QoS)

- 8 Queues per Port
- 802.1p Based Classification
- DSCP Based Classification
- Strict Priority/DWRR Queue Scheduling
- Policing/Shaping
- Rate Limiting
- HQoS (Subscriber/User/User-group, Service-Level)

Reliability

- MC-LAG
- VRRPv2/v3
- BFD
- Monitor Link
- SLA
- Routing Track

Management

- Console, SSH, Telnet
- RESTful API, uCentral
- Industry Standard CLI(Klish)
- ZTP
- Syslog
- SNMP v1/v2/v3
- SPAN/ERSPAN
- NetFlow/IPFIX
- AsterNOS Exporter (Prometheus)

AsterNOS-VPP is sold separately, with quarterly updates. Access community resources at : https://asternos.com/community/

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AsterAPNOS for Access Point

Hardware Compatibility List (HCL)

Below are validated platforms for the software suite:

OpenWiFi Compatible AP Hardware

- Supporting various Wi-Fi 6/6E/7 enterprise platforms

Software Features & Capabilities

Wi-Fi / Radio Features

- Support for Wi-Fi 7 (802.11be) with backward compatibility
- Advanced multi-user technologies: OFDMA, MU-MIMO, BSS Coloring
- Fast roaming support: 802.11k / 802.11v / 802.11r
- Multicast-to-Unicast conversion
- Multiple SSID support
- Client isolation (based on SSID and VLAN)
- DFS (Dynamic Frequency Selection)
- ACS (Automatic Channel Selection)
- Configurable RF on/off
- Configurable per-radio client capacity
- Configurable radio parameters: Channel selection, Channel bandwidth, MIMO mode, Transmit power

Network Features

- VLAN support (IEEE 802.1Q)
- VXLAN tunneling (encapsulation)
- DHCP Client and DHCP Server
- Static Management IP Address
- Access Control Lists (ACL)
- LLDP (Link Layer Discovery Protocol)
- Optical module detection (SFP/SFP+ monitoring)
- Quality of Service (QoS): Traffic rate limiting, Priority-based traffic scheduling

Security Features

- Comprehensive wireless security: WPA/WPA2/WPA3/SAE
- AAA (Authentication, Authorization, Accounting): Portal authentication (Portal 2.0), RADIUS authentication, MAC authentication, Dynamic VLAN assignment, Accounting support
- Emergency SSID (fail-safe SSID for network access)

High Availability

- NTP (Network Time Protocol)
- Standard uCentral interface for reporting: AP status and inventory, Client information, Health and performance metrics
- Device lifecycle management: Firmware Upgrade, Reboot and Factory Reset, Patch Deployment
- ZTP (Zero Touch Provisioning)
- Secure remote access via SSH
- Cloud-based packet capture
- System logging and Syslog client support
- Client event tracking, including Association / disassociation, DHCP events, Access rejection
- One-click log collection
- OpenWiFi 4.2 Compatible

AsterAPNOS is sold separately, with quarterly updates. Access community resources at: https://asternos.com/community/

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06

OPEN PACKET BROKER

Open Packet Broker Powered by SONiC

PB-APP on AsterNOS

SONiC-Powered NPB Solution, the world's first Packet Broker for 800G.

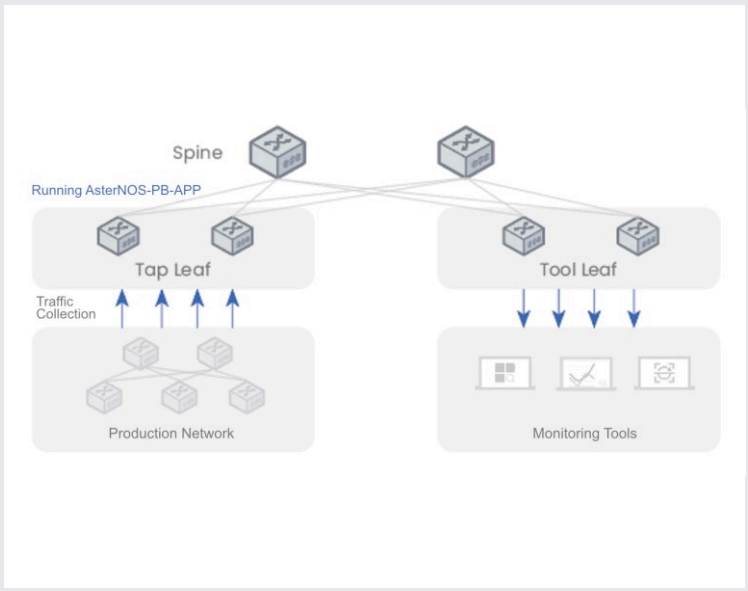
Key Features

- **Active Inline Mode Deployment:**
  Move beyond passive monitoring to enable inline traffic orchestration.
- **Advanced Packet Processing Capability:**
  Leverage external DPU or DPU clusters to infinitely scale high-performance, complex packet features on-demand.
- **Micro-Burst Mitigation with Flowlet:**
  Eliminate elephant flow-induced congestion through flowlet-based load balancing.
- **Tunnel-Aware Traffic Distribution:**
  Hashing on inner headers for efficient processing of encapsulated traffic.
- **Unified Packet Broker Platform:**
  All-in-one design (ASIC + optional DPU) integrating advanced features.
- **Secure at Line Rate:**
  MACsec encryption protects sensitive traffic at line rate.
- **Operational Simplicity:**
  Automated configuration via Ansible and real-time observability with Prometheus Exporter.



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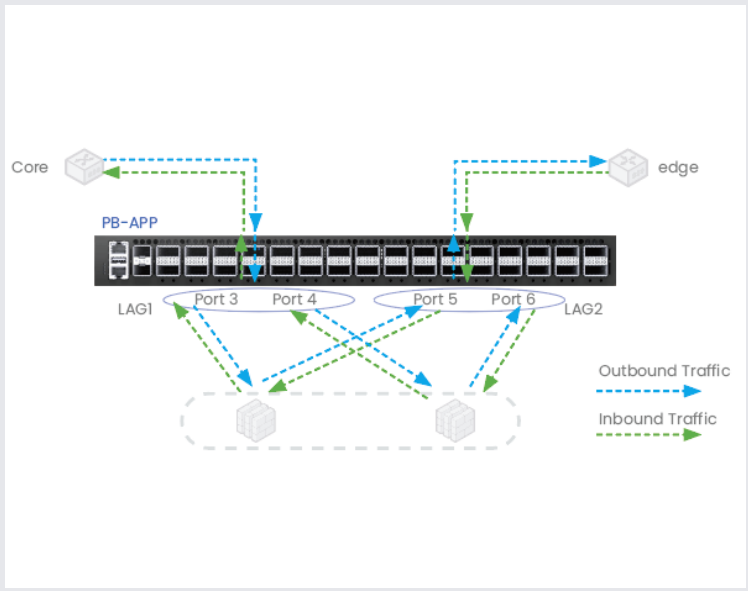
Application Scenarios



Passive Deployment

Conventional Deployment Scenario

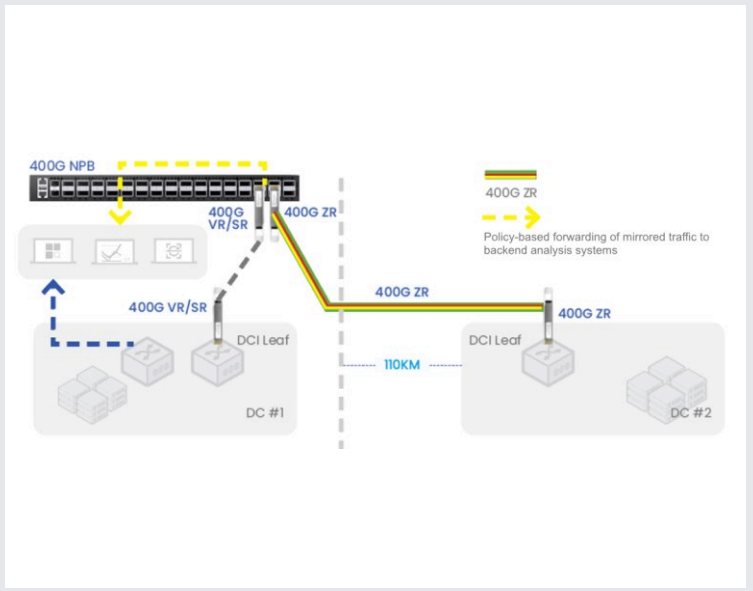
- Out-of-path collection of mirrored traffic from monitored devices, completing various packet preprocessing tasks and distributing traffic to backend security tools based on policies.



In-Line Deployment

High-Security Scenarios

- Supports active in-line intervention and blocking of risky traffic.
- Intelligent traffic orchestration directs only traffic requiring inspection to security devices.
- Proven performance through large-scale, high-load critical traffic testing.



Cross-DC Long-Distance Transmission

DCI Deployment Scenario

- Eliminates the need for topology modifications or extra ZR optical modules.
- DCI link monitoring costs reduced by approximately 30%.

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PB-APP Preloaded HW Platforms

Standard Feature-Ready Platforms

Model Name	Port Configuration	Switching Capacity	Packet Buffer	Wildcard Filter*	Exact Match	Power Supplies	Rack Units
CX864E-N	64 × 800G OSFP, 2 × 10G SFP+	51.2 Tbps	200+ MB	Up to 48K	—	1+1 Hot-pluggable PSU	2U
CX664D-N	64 × 200G QSFP56, 2 × 10G SFP+	12.8 Tbps	70 MB	Up to 21K	—	1+1 Hot-pluggable PSU	2U
CX564P-N	64 × 100G QSFP28, 2 × 10G SFP+	6.4 Tbps	70 MB	Up to 21K	—	1+1 Hot-pluggable PSU	2U
CX732Q-M-H	32 × 400G QSFP-DD, 2 × 10G SFP+	12.8 Tbps	48 MB	Up to 4.5K	256K	1+1 Hot-pluggable PSU	1U
CX532P-M-H	32 × 100G QSFP28, 2 × 10G SFP+	3.2 Tbps	24 MB	Up to 4.5K	256K	1+1 Hot-pluggable PSU	1U
CX308P-48Y-M-H	8 × 100G QSFP28, 48 × 25G SFP28	2.0 Tbps	24 MB	Up to 4.5K	256K	1+1 Hot-pluggable PSU	1U
CX202P-24Y-M-H	24 × 25G SFP28, 2 × 100G QSFP28	800 Gbps	8 MB	Up to 13K	256K	1+1 Hot-pluggable PSU	1U
CX206P-48S-M-H	48 × 10G SFP+, 6 × 100G QSFP28	1.09 Tbps	6 MB	Up to 13K	—	1+1 Hot-pluggable PSU	1U
CX206P-24S-M-H	24 × 10G SFP+, 6 × 100G QSFP28	1.09 Tbps	6 MB	Up to 4.5K	—	1+1 Hot-pluggable PSU	1U
CX102S-16GT-M-SWP	16 × 1G RJ45 PoE+, 2 × 10G SFP+	72 Gbps	3 MB	Up to 3K	—	1 Fixed PSU	Half-width 1U
CX102S-8GT-M-SWP	8 × 1G RJ45 PoE+, 2 × 10G SFP+	72 Gbps	3 MB	Up to 3K	—	1 Fixed PSU	Half-width 1U

*ACL Capacity: Theoretical maximum capacity under fully dedicated hardware resource allocation.

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PB-APP Feature Lists

Standard Feature

Category	Feature	Description
Interfaces	Port Density	1G / 10G / 25G / 40G / 100G / 400G (Supports Breakout Mode)
	Port Diagnostics & Control	FEC, Loopback, DDM/DOM (Optical Power, Temperature, Vendor Information)
	Port Characterization	Configurable Port Types: Service, Network, Tool, and Hybrid
Traffic Engineering	L2-L4 Load Balancing	Symmetric Hash (IPv4/v6, MAC, Port); Custom Hash Seeds; Flex/Static/Weighted Modes
	Header Stripping	VXLAN, MPLS, GTP, GRE, ERSPAN, PPPoE, IP-in-IP, CFP
	Packet Modification	VLAN Tagging (Add/Modify/Delete), 128B Truncation, L2/L3 Timestamping
Traffic Steering	Advanced Filtering	L2-L4 Match: MAC, IPv4/v6 Mask, EtherType, DSCP, TCP Flags, ICMP, VNI
	Matching Intelligence	Inner-Layer Matching (Post-Stripping), MPLS Inner Match, TX-Direction Filtering
	Forwarding Policies	SPAN, RSPAN, ERSPAN; N:M Replication; Redirect, Forward, and Drop
System & Ops	System Management	Web UI, CLI (Console/SSH/Telnet), RESTful API; License and Batch Configuration
	Monitoring & Alarms	Real-time Stats (Packets/Bytes, Errors/Drops); Temperature, Fan, and PSU Alarms
	Ops & Integration	DevOps (Ansible), LLDP, PTP/NTP Synchronization, SNMP, Syslog, Prometheus

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Advanced Feature-Ready Platforms

Advanced Feature-Ready Platforms

Model Name	ET3608-2P2S	ET3616-4P4S	ET3212A	ET3424A
Product Image				
Processor	**1 × Marvell OCTEON 10 CN103XX 8 Core ARM64 N2 @2.5GHz**	**1 × Marvell OCTEON 10 CN103XX 8 Core ARM64 N2 @2.5GHz**	**1 × Marvell OCTEON TX2 CN9670 (24-Core)@2.2GHz**	**2 × Marvell OCTEON TX2 CN9670 (24-Core)@2.2GHz**
Network Interfaces	**2 × 100GE QSFP28 2 × 10GE SFP+**	**2 × 2 × 100GE QSFP28 2 × 2 × 10GE SFP+**	**2 × 100GE/40GE QSFP28/QSFP+ 12 × 10GE SFP+**	**2 × 2 × 100GE/40GE QSFP28/QSFP+ 2 × 12 × 10GE SFP+**
Management Interfaces	1 × USB3.0, 1 × Console RJ45 1 × MGMT RJ45	2 × USB3.0, 2 × Console RJ45 2 × MGMT RJ45	1 × USB2.0, 1 × Console RJ45 1 × MGMT RJ45	2 × USB2.0, 2 × Console RJ45 2 × MGMT RJ45
L3 Throughput	100 Gbps	2 × 100 Gbps	-	-
Memory	16GB DDR5 (Max 48GB)	2× 16GB DDR5 (Max 48GB)	24GB DDR4(Max 192GB)	2× 24GB DDR4(Max 192GB)
Storage	64GB eMMC 5.1	2 × 64GB eMMC 5.1	64GB eMMC 5.1	2 × 64GB eMMC 5.1
Expansion Slots	M.2 B Key (5G/LTE) M.2 M Key (AI / SSD)	M.2 B Key (5G/LTE) 2 × M.2 M Key (AI / NVMe SSD)	M.2 B Key (5G/LTE) 2 × M.2 M Key (AI / NVMe SSD)	M.2 B Key (5G/LTE) 2 × 2 × M.2 M Key (AI / NVMe SSD)
AI Capabilities	Up to 160 TOPS elastic AI computing performance Up to 100 TFLOPS @ bFP16		—	
Power Supply	1+1 Hot Pluggable PSU (AC 100-240V)	1+1 Hot Pluggable PSU (AC 100-240V)	1+1 Hot Pluggable PSU (AC 100-240V / DC 36-72V)	1+1 Hot Pluggable PSU (AC 100-240V / DC 36-72V)
Fan	1+1 Hot Pluggable Fan Modules	2+1 Hot Pluggable Fan Modules	2+1 Hot Pluggable Fan Modules	4+1 Hot Pluggable Fan Modules
Dimensions	44×440×470 mm / Standard 1U	44×440×470 mm / Standard 1U	44×440×560 mm / Deep 1U	44×440×560 mm / Deep 1U
Installation	Rack-mount	Rack-mount	Rack-mount	Rack-mount
Operating Temperature	0 – 45°C (32 – 113°F)	0 – 45°C (32 – 113°F)	0 – 45°C (32 – 113°F)	0 – 45°C (32 – 113°F)
Relative Humidity	5% - 95% (Non-condensing)	5% - 95% (Non-condensing)	10% - 90% (Non-condensing)	10% - 90% (Non-condensing)
Energy Consumption	< 100W (Full Configuration)	< 200W (Full Configuration)	300W	500W
DPU ACL(48G)	Up to 10,000,000 Rules	Up to 20,000,000 Rules	Up to 10,000,000 Rules	Up to 20,000,000 Rules

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Advanced Packet Broker Feature Lists

Advanced Feature

Category	Feature	Description
Traffic Processing & Forwarding	Deep Protocol & Pattern Intelligence	Multi-Layer protocol parsing (VLAN/VXLAN/SSL) combined with sophisticated keyword and URL filtering for granular traffic visibility.
	Packet Truncation & Data Masking	Supports packet truncation and sensitive data desensitization.
	Hardware Packet Deduplication	High-performance hardware-based packet deduplication with configurable matching fields.
	Packet Reassembly	Supports IP fragment reassembly and TCP session reassembly.
	Tunnel Termination & Encapsulation	Mainstream tunnel termination and encapsulation.
	NetFlow & Traffic Sampling	NetFlow generation and Packet Sampling Output.
4G/5G Mobile	Signaling Decoding & Decryption	Full-stack 4G/5G signaling decoding (S1/S11/N2/N4/N11/N12) with NAS/5GS decryption (EEA/NEA1-3), NF topology discovery, and link quality diagnostics.
	Subscriber-Aware Correlation & Filtering	Stateful 3G/4G/5G correlation with IMSI/IMEI/MSISDN tagging, GTP stripping, Inner 5-Tuple filtering, and VoLTE/SIP-based traffic distribution.
	Protocol-Wide Telemetry & Statistics	Provides 4G/5G signaling (S1/N2/N4/S11) and GTP-U statistics, IPv6 monitoring, and PFCP/Diameter/IMSI telemetry.
Management & Analytics	Management Interfaces	CLI (Serial/SSH), REST API, and Web UI management interfaces.
	Hardware Statistics	Provides statistics for CPU usage, memory utilization, and interface throughput.
	Traffic Analytics	Supports rule hit counters, Deduplication and Reassembly statistics, and NetFlow analytics.

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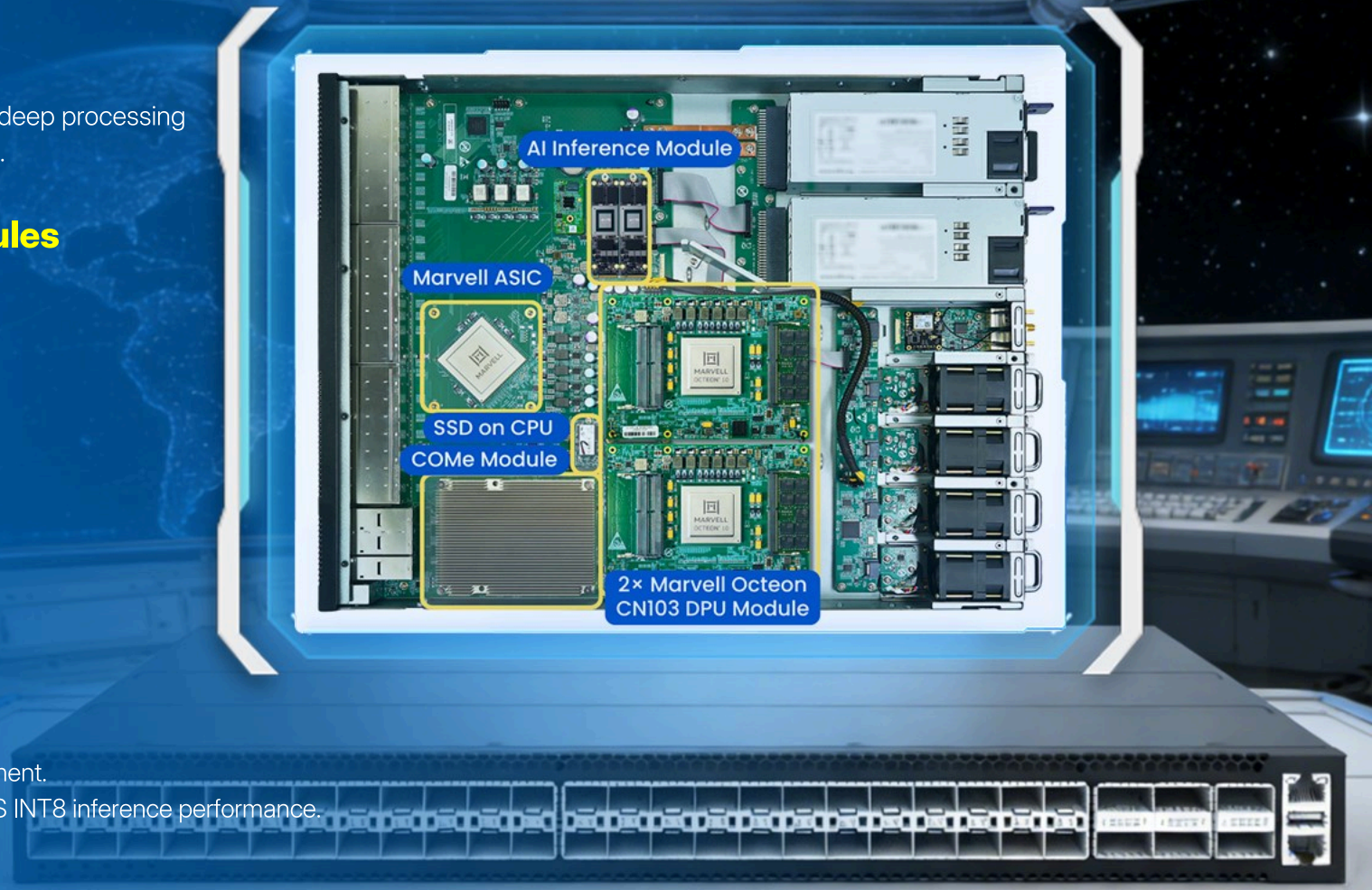
Integrated Smart Packet Broker CX306P-48Y-M-H

Dual-Engine Power for Unified Traffic Intelligence:
The CX306P combines the wire-speed efficiency of **Marvell ASIC** with the deep processing power of **dual Marvell OCTEON CN103 DPUs** in a single-machine solution.

4,500 Rules
Wildcard Filter

256,000 Rules
Exact Match

10,000,000 Rules
Single DPU ACL (48G)



Application Scenarios

Scenario 1: High-Performance Network Analysis

CPU/ASIC Runs PB-APP to offer standard packet broker features.
DPU Runs FusionNOS for advanced packet broker features.

Scenario 2: Open Development & AI-Driven Intelligence

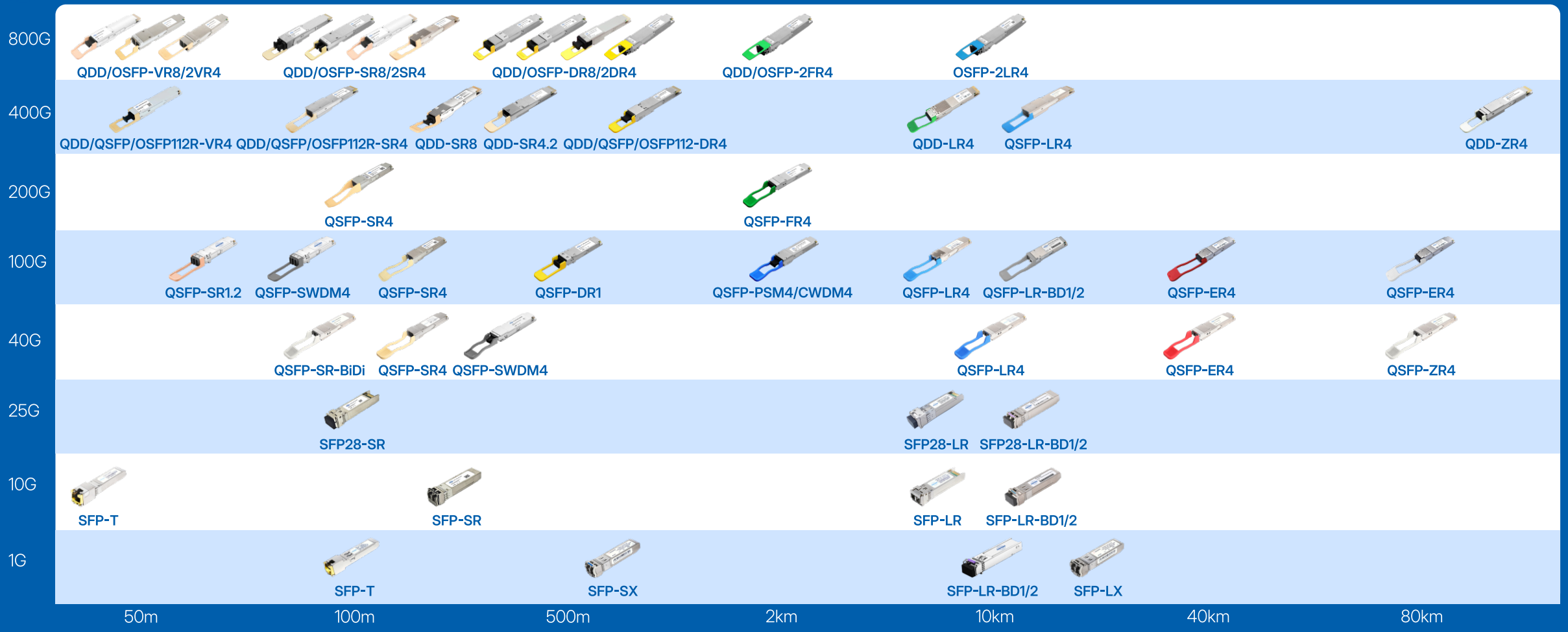
CPU/ASIC Runs PB-APP to offer standard packet broker features.
DPU Runs Standard Linux Distributions for 3rd party application development.
DPU M.2 Slot Supports Optional AI Inference Engine with up to 160 TOPS INT8 inference performance.

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These cables are **100% compatible with our switches** and also work seamlessly with major industry brands, including Cisco, Juniper, Arista, HPE/Aruba, Dell, Huawei, Netgear, and TP-Link, ensuring plug-and-play reliability. They are available in **speeds from 1G to 800G**, covering all deployment needs from access to core networks.

AOC Cables



High-speed optical interconnect for longer reach and low latency.

AEC Cables



Active electrical cables for extended reach and improved signal integrity.

DAC Cables



Cost-effective copper interconnect for short-distance high-density deployment.

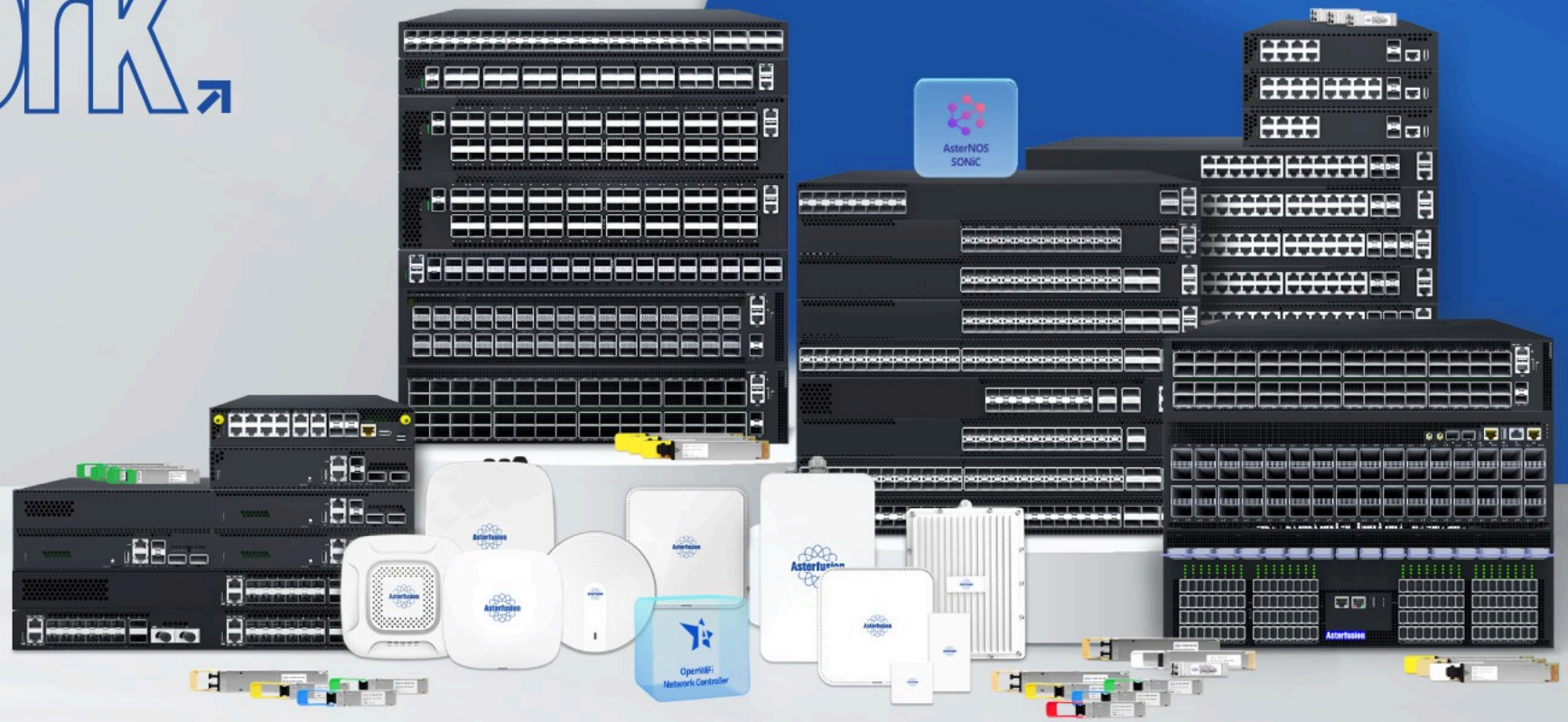
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