AS7716-24SC 100GbE Coherent Switch



100GbE Coherent Switch AS7716-24SC

The Cassini packet transponder enables network operators to easily extend and migrate existing metro and long-haul Dense Wavelength Division Multiplexing (DWDM) networks to add new 100G capacities and extend inter-datacenter and Layer3 services.

The Cassini is a 1.5 RU form factor with system throughput of 3.2 Tbps based on Broadcom StrataXGS[™] Tomahawk[™] Plus switch silicon. The Cassini design offers sixteen fixed 100 Gigabit Ethernet QSFP28 ports, plus eight linecard slots to incorporate a flexible mix of additional 200 GbE ports or DCO optical ports based on coherent DSP and optical transceivers from leading optical technology partners.

This open network switch is loaded with the Open Network Install Environment (ONIE), which supports the installation of compatible Network Operating System (NOS) software, including the open source plus commercial NOS offerings.

Cassini supports Ethernet and optical line cards with MACsec security to enable secure encrypted connections on both client-side links and metro or wide area connections.

Key Features and Benefits

- High Capacity: Full 3.2 Tbps switching fabric.
- Metro Transmission: 200G 16QAM coherent plug-in card.
- Cost Effective: Combined switch and transport function in one box.
- Open and Flexible: Line-side plug-in (CFP2-DCO, 2 x QSFP28). Non-coherent/coherent subscription ratios of 1:1 to 15:1 (also grey fiber/color fiber subscription ratios), "plug-and-play" with automatic conditioning of the analogue line.
- Easier to Use: Transport library supports API functionalities; automated monitoring, failure report, etc. Abstracts complexity of L1 transmission.
- Long-Life Reliability: Redundant 60 mm fan (3+1 dual-rotor fan assemblies). Redundant Power (1+1 PSU).
- Hardware switch pre-loaded with Open Network Install Environment (ONIE) for automated loading of compatible open source and commerical NOS offerings.







of choice







Greater control Rapid innovation Reduced CAPEX and OPEX

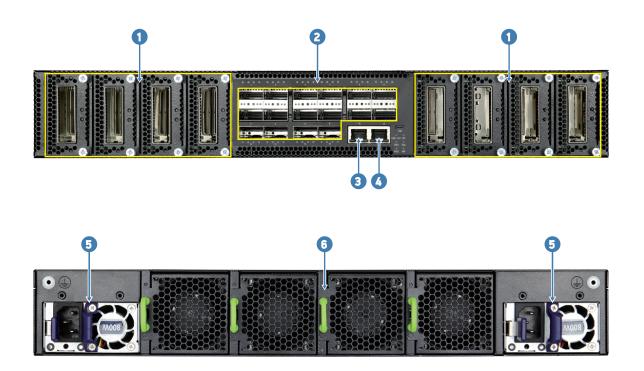
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Free Software Included

onie

Interfaces



Description						
1.	8 x DCO cards	4.	Console port			
2.	16 x QSFP28 100G Ethernet ports	5.	PSUs			
3.	Management port	6.	Hot-swappable 3 + 1 redundant fans			

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Ports

- Switch ports: 16 x QSFP28 ports. Each Port supports 1 x 40/100 GbE 8 line-card slots for QSFP28, DCO modules
- Management ports on port side: 1 x RJ-45 serial console 1 x RJ-45 100/1000BASE-T management 1 x USB Type A storage

Key Components

Switch Silicon: Broadcom BCM56965 Tomahawk+

 CPU Modules: Intel® Xeon® D-1518 quad-core x86 Processor DDR4: SO-DIMM 8 GB x 2 SPI Flash: 16MB m.2 SSD: 32 GB MLC

Performance

- Switching Capacity: 6.4 Tbps full duplex
- Jumbo frames support up to 9216 Bytes
- Subject to NOS: MAC Addresses: 8 K min./136 K max. VLAN IDs: 4 K
 - IPv4: 8 K min./84 K max. host entries; 16 K LPM entries with TCAM-only mode

IPv6: 4 K min /36 K max. host entries; IPv6/64= 8 K TCAM-only mode

Physical and Environmental

- Dimensions (WxDxH): 44.25 x 55.0 x 6.6 cm (17.42 x 21.65 x 2.6 in.)
- Operating Temperature: 0°C to 45°C (32°F to 113°F)
- Storage Temperature: -40° C to 70° C (-40° F to 158° F)
- Operating Humidity: 5% to 95% (non-condensing)

Weight	AS7716-24SC	DCO	QSFP28
Net Weight	11.6 kg	0.372 kg	0.322 kg

Software

- Switch is loaded with Open Network Install Environment (ONIE) software installer
- Compatible with the following NOS options: open source options, plus commercial NOS offerings.

LEDs

- QSFP28 Port LEDs: Link Status, Activity, Speed
- Ethernet Management Port LED: Link Status, Activity
- System LEDs: Diagnostic, Locator, PSU and Fan Status
- Modules LED: Link Status, Activity, Speed

Power

- PSUs: 2 redundant, load-sharing, hot-swappable AC
- Input Voltage: 90 to 240 VAC at 50-60 Hz.
- PSU Efficiency: Up to 93% for AC PSUs

Full loading, the total power consumption is approximately 1100 W. 1. Under the operation of full loading, the system of AS7716-24SC can

- support 1 PSU operation of tult loading, the system of AS7710-245C car support 1 PSU operation if the VAC is set up at high line mode.
- 2. It's necessary to use 2 PSUs when the VAC is configured at low line mode.

Regulatory Compliance

- EMI
 - CE Mark EN55032 Class A EN55024 EN61000-3-2 EN61000-3-3
- FCC Part 15 Subpart B Class A
- VCCI Class A
- Safety
 CB
- UL/CUL
- Environmental: Temperature: IEC 68-2-14
 Vibration: IEC 68-2-36, IEC 68-2-6
 Shock: IEC 68-2-29
 Drop: ISTA 2A
- RoHS 2.0 Compliant

Warranty

Please check www.edge-core.com for the warranty terms in your country.

For More Information

To find out more about Edgecore Networks Corporation products and solutions, visit www.edge-core.com.

About Edgecore Networks Corporation

Edgecore Networks Corporation is in the business of providing innovative network solutions. In the service provider network, in the data center or in the cloud, Edgecore Networks Corporation delivers the software and systems that transform the way the world connects. Edgecore Networks Corporation serves customers and partners worldwide. Additional information can be found at www.edge-core.com.

Edgecore Networks Corporation is a subsidiary of Accton Technology Corporation, the leading network ODM company. The Edgecore data center switches are developed and manufactured by Accton.

To purchase Edgecore Networks solutions, please contact your Edgecore Networks Corporation representatives at +886 3 563 8888 (HQ) or +1 (949)-336-6801 or authorized resellers.

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Ordering Information

Base Model: AS7716-24SC; Intel®Xeon® D-1518 Processor; 16x100GbE and 8 module slot; ONIE software installer

Model Number	Part Number	PSU	Airflow	Region (power cord)	
7716-24SC-0-AC-F-US	FP3ZZ7624401A	dual AC PSUs	port-to-power airflow	N. America	
7716-24SC-O-AC-F-EU	FP3ZZ7624200A	dual AC PSUs	port-to-power airflow	EU	
7716-24SC-0-AC-F-UK	FP3ZZ7624300A	dual AC PSUs	port-to-power airflow	UK	
7716-24SC-0-AC-F-JP	FP3ZZ7624501A	dual AC PSUs	port-to-power airflow	JP	
Model Number	Part Number	Description			
AS7716-24SC (QSFP28)	F0SZZ7624000A	QSFP28 module for AS7716-24SC			
AS7716-24SC (DCO) F0SZZ7624001A		DCO module for AS7716-24SC			
7716-24SC-SVC-RTF	REWECECWA036Z	AS7716-24SC, Annual Hardware Service, Return-to-Factory, after warranty. 3 year warranty included already with the product, maximum 2 additional years per product FAN and PSU are excluded			