DCS240 Data Center Switch

Edge-corE NETWORKS

DATA CENTER SWITCH

AS9726-32DBS

The Edgecore DCS240 is a leaf switch for high-performance data centers. The switch provides L2 and L3 switching across 32 x QSFP56-DD ports, each supporting 1 x 400 GbE or 1 x 100 GbE, or via breakout cables 2 x 200GbE, 4 x 100 GbE, or 4 x 25 GbE. The DCS240 can be deployed as a top-of-rack or leaf switch supporting 100/400 GbE interconnects. This open network switch is loaded with the Open Network Install Environment (ONIE), which supports the installation of compatible Network Operating System software, including open source and commercial NOS offerings.

Key Features and Benefits

- QSFP56-DD switch ports, each supporting 1 x 400 GbE, or via breakout cables 2 x 200G GbE or 4 x 100 GbE.
  Upper 16 ports support up to 24 W per transceiver.
  Lower 16 ports support up to 14 W per transceiver.
- QSFP56-DD switch ports also support 100 GbE QSFP28 and 40 GbE QSFP+, and via breakout cables 4 x 25 GbE or 4 x 10 GbE.
- Supports 400G ZR/Open ZR+ coherent transceivers in the upper 16 QSFP56-DD ports.
- Incorporates Broadcom Trident 4 switch series silicon.
- 1 RU form factor.
- Supports hot/cold aisles with front-to-back and back-to-front airflow SKUs.
- All ports on front; PSUs and fans accessible from rear.
- Hot-swappable, load-sharing, redundant 1500 W PSUs.
- 5+1 redundant, hot-swappable fan modules.
- Hardware switch pre-loaded with Open Network Install Environment (ONIE) for automated loading of compatible open source and commerical NOS offerings.

OPEN PLATINUM

OPEN Compute Project SOLUTION PROVIDER

Freedom of choice

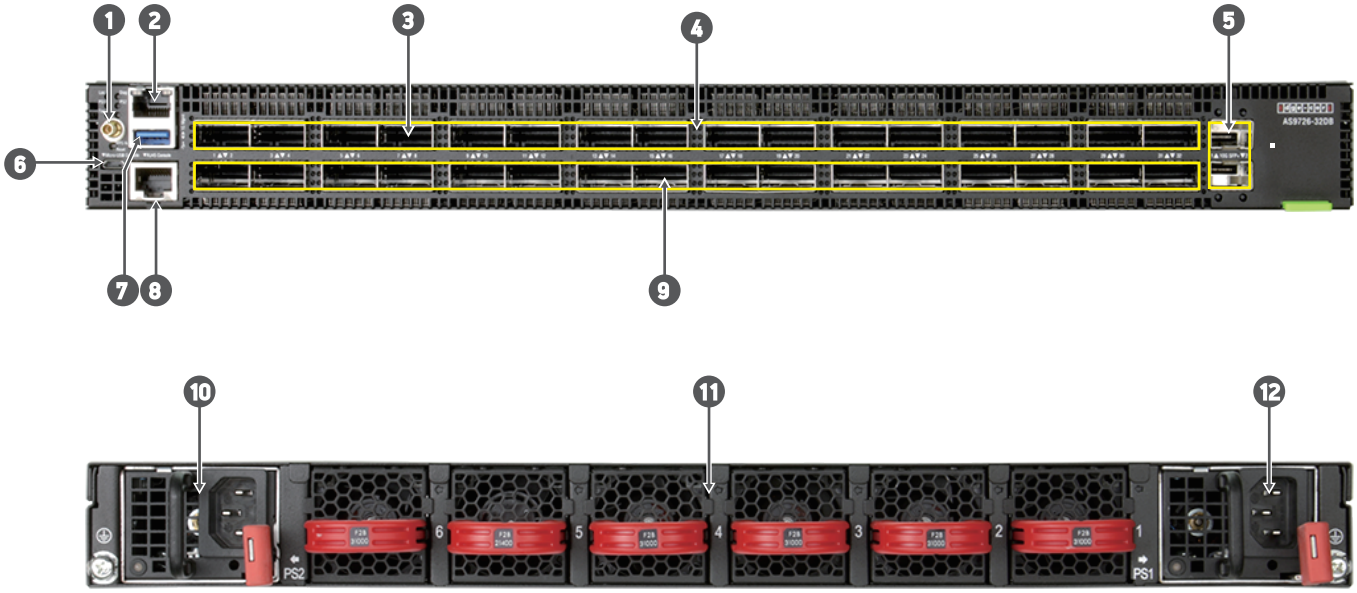
Greater control

Rapid innovation

Free Software Included

onie

Interfaces



Description			
1.	1PPS connector	7.	USB storage port
2.	RJ-45 management port	8.	RJ-45 console port
3.	16 x 400G QSFP56-DD ports supporting up to 24 W per port, supports 400G ZR/OpenZR+ transceivers.	9.	16 x 400G QSFP56-DD ports supporting up to 14W per port
4.	Port indicators	10.	PSU 2
5.	2 x 10G SFP+ ports	11.	Hot-swappable 5 + 1 redundant fans
6.	Micro USB console port (higher priority)	12.	PSU 1

Ports
- Switch Ports: 32 x QSFP56-DD 400 GbE
- Logical Ports: Max. 144
- Port Modes:
  1 x 400G (8 lanes 50G PAM4)
  2 x 200G (4 lanes 50G PAM4) QSFP56-DD breakout
  4 x 100G (2 lanes 50G PAM4) QSFP56-DD breakout
  1 x 100G (4 lanes 25G NRZ) QSFP28
  1 x 40G (4 lanes 10G NRZ) QSFP+
  4 x 25G (1 lane 25G NRZ) QSFP56-DD breakout
  4 x 10G (1 lane 10G NRZ) QSFP56-DD breakout
- Management Ports on Port Side:
  1 x RJ-45 serial console
  1 x Micro USB console port
  • Note: When both console ports are connected, only one is active (the Micro USB port has a higher priority).
  1 x RJ-45 1000BASE-T management
  2 x SFP+ 10G management
  1 x USB 3.0 storage port
- Supported Transceivers and Cables:
  40GBASE-SR4/LR4
  40G-DAC Cable
  100GBASE-SR4/CWDM4/LR4
  100G-DAC/AOC Cable
  400GBASE-FR4/ZR
  400G-DAC/AOC Cable

Key Componets
- Switch Silicon: BCM56880 Trident 4
- CPU Module:
  Processor: Intel® Pentium® 4-Core
  SPI Flash: 32MB x 2
  Memory: 16GB DDR4 SO-DIMM with ECC
  Storage: 64GB NVMe SSD
  TPM: TPM2.0
- BMC: AST2600 with OpenBMC
- Timing and Sync:
  1PPS Port, SyncE, IEEE 1588v2 PTP

Performance
- Switching Capacity: 12.8 (25.6) Tbps
- Jumbo Frames: Up to 9416 Bytes
- Packet Buffer Size: 132MB Smart Buffer
- Subject to NOS:
  MAC Addresses: max. 384K

Physical and Environmental
- Dimensions (WxDxH): 43.84 x 59 x 4.35 cm (17.26 x 23.23 x 1.71 in.)
- Weight: 11.85 kg (26.12 lb), with 2 PSUs and 6 fans installed
- Fans: Hot-swappable 5 + 1 redundant fans
- Storage Temperature: -40°C – 70°C (-40°F – 158°F)
- Operating Temperature:
  (FtoB): 0°C – 45°C (32°F – 113°F)
  (BtoF): 0°C – 35°C (32°F – 95°F)
- Operating Humidity: 5% – 95% non-condensing

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.

System/Port LEDs and Buttons
- Port LEDs
- Management Port LEDs
- System LEDs
- Reset Button

Power
- PSUs: 2 redundant, load-sharing, hot-swappable AC or 48VDC
- AC PSU:
  AC input ranges:
  100-127 VAC at 50-60 Hz (12 A/1000 W max.)*
  200-240 VAC at 50-60 Hz (8 A/1500 W max.)
  *200-240 VAC may be required for power redundancy under full loading.
  AC Inlet: IEC 60320 C14
- DC PSU:
  48 VDC input ranges: -40 – -75 VDC (40 A/1600 W max.)
  DC Inlet: Terminal screws
- Power Draw:
  Min. (w/o transceivers): 386 W
- Power Budget: 24 W on upper 16 ports, 14 W on lower 16 ports

Regulatory
- Emissions:
  EN 55032/CISPR 32 Class A
  AS/NZS CISPR 32 Class A
  EN 61000-3-2
  EN 61000-3-3
  FCC Title 47, Part 15, Subpart B Class A
  ICES-003 Issue 7 Class A
  VCCI-CISPR 32 Class A
  CNS 15936 Class A
- Immunity:
  EN 55024
  EN 55035
  EN 300 386
  IEC 61000-4-2/3/4/5/6/8/11
- Safety:
  UL (CSA 22.2 No 62368-1 & UL 62368-1)
  CB (IEC/EN 62368-1)
  CNS 15598-1
- Environmental:
  GR63-CORE (Pre-test)
- RoHS-2.0 Compliant
- Electrical and Electronic Equipment (WEEE Directive 2002/96/EC)
- Country of Origin: Taiwan (TAA 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.

Ordering Information

Base Model: AS9726-32DBS; Intel® Pentium® Processor 4-Core; 32-Port 400G QSFP56-DD; BMC; ONIE Software				
Model Number	**Part Number**	**PSU**	**Airflow**	**Power Cord**
AS9726-32DBS-O-AC-F	FP5EC8632014A	Dual AC PSUs	Front-to-Back	without power cord
AS9726-32DBS-O-AC-B	FP5EC8632012A	Dual AC PSUs	Back-to-Front	without power cord
200-240 VAC, 1500 W max. (power redundancy under full loading)				
Model Number	**Part Number**	**PSU**	**Airflow**	**Power Cord**
AS9726-32DBS-O-AC-F-UN	FP5ZZ8632405A	Dual AC PSUs	Front-to-Back	IEC 60320 C13-C14
AS9726-32DBS-O-AC-B-UN	FP5ZZ8632406A	Dual AC PSUs	Back-to-Front	IEC 60320 C13-C14
AS9726-32DBS-O-AC-F-EU	FP5ZZ8632202A	Dual AC PSUs	Front-to-Back	IEC 60083 Type E/F (CEE 7/7) EU
AS9726-32DBS-O-AC-B-EU	FP5ZZ8632203A	Dual AC PSUs	Back-to-Front	IEC 60083 Type E/F (CEE 7/7) EU
AS9726-32DBS-O-AC-F-UK	FP5ZZ8632302A	Dual AC PSUs	Front-to-Back	IEC 60083 Type G (BS 1363) UK
AS9726-32DBS-O-AC-B-UK	FP5ZZ8632303A	Dual AC PSUs	Back-to-Front	IEC 60083 Type G (BS 1363) UK
AS9726-32DBS-O-AC-F-CN	FP5ZZ8632702A	Dual AC PSUs	Front-to-Back	IEC 60083 Type I (GB 2099.1) CN
AS9726-32DBS-O-AC-B-CN	FP5EC8632408A	Dual AC PSUs	Back-to-Front	IEC 60083 Type I (GB 2099.1) CN
100-127 VAC, 1000 W max. (may not have power redundancy under full loading, depending on type and number of transceivers present)				
Model Number	**Part Number**	**PSU**	**Airflow**	**Power Cord**
AS9726-32DBS-O-AC-F-US	FP5EC8632407A	Dual AC PSUs	Front-to-Back	NEMA 5-15 (UL)
AS9726-32DBS-O-AC-B-US	FP5EC8632406A	Dual AC PSUs	Back-to-Front	NEMA 5-15 (UL)
AS9726-32DBS-O-AC-F-JP	FP5EC8632504A	Dual AC PSUs	Front-to-Back	JIS C 8303, Class I
AS9726-32DBS-O-AC-B-JP	FP5EC8632503A	Dual AC PSUs	Back-to-Front	JIS C 8303, Class I
AS9726-32DBS-O-AC-F-TW	FP5EC8632T04A	Dual AC PSUs	Front-to-Back	NEMA 5-15 (BSMI)
AS9726-32DBS-O-AC-B-TW	FP5EC8632T03A	Dual AC PSUs	Back-to-Front	NEMA 5-15 (BSMI)
48 VDC, 1600 W max. (includes 6/8 AWG (4.3/6.4mm²) power cord 3 x ring terminal to 3 x ring terminal, 3m)				
Model Number	**Part Number**	**PSU**	**Airflow**	**Power Cord**
AS9726-32DBS-O-48V-F	FP5EC8632015A	Dual 48VDC PSUs	Front-to-Back	3xRing-3xRing, 6/8AWG (4.3/6.4mm²)
AS9726-32DBS-O-48V-B	FP5EC8632016A	Dual 48VDC PSUs	Back-to-Front	3xRing-3xRing, 6/8AWG (4.3/6.4mm²)
PSU FRUs (power cord not included)				
Model Number	**Part Number**	**PSU**	**Airflow**	
PSU-AC-1500A-F	F00ZZ8632002A	AC	Front-to-Back	
PSU-AC-1500A-B	F00ZZ8632003A	AC	Back-to-Front	
PSU-AC-1500B-F	F00ZZ8632004A	AC	Front-to-Back	
PSU-AC-1500B-B	F00ZZ8632005A	AC	Back-to-Front	
PSU-48V-1500-F	F00ZZ8632008A	48VDC	Front-to-Back	
PSU-48V-1500-B	F00ZZ8632009A	48VDC	Back-to-Front	
Fan FRUs				
Model Number	**Part Number**	**Airflow**		
FAN-1U-1x1N-F	F00ZZ8632006A	Front-to-Back		
FAN-1U-1x1N-B	F00ZZ8632007A	Back-to-Front		
Accessories				
Model Number	**Part Number**	**Description**		
RKIT-100G-SLIDE	F00ZZ7632001A	Tool-less Rack Mounting Rail Slide Kit (674 mm - 919 mm ±3 mm)		