DCS240 Data Center Switch

Edge-corE NETWORKS

DATA CENTER SWITCH

AS9726-32DB

The Edgecore DCS240 is a leaf switch for high-performance data centers. The switch provides L2 and L3 switching across the 32 x QSFP56-DD ports, each supporting 1 x 400 GbE or 1 x 100 GbE, or via breakout cables 2 x 200 GbE, 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 the open source options, plus commercial NOS offerings.

Key Features and Benefits

- QSFP56-DD switch ports, each supporting 1 x 400 GbE, or via breakout cables 2 x 200 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

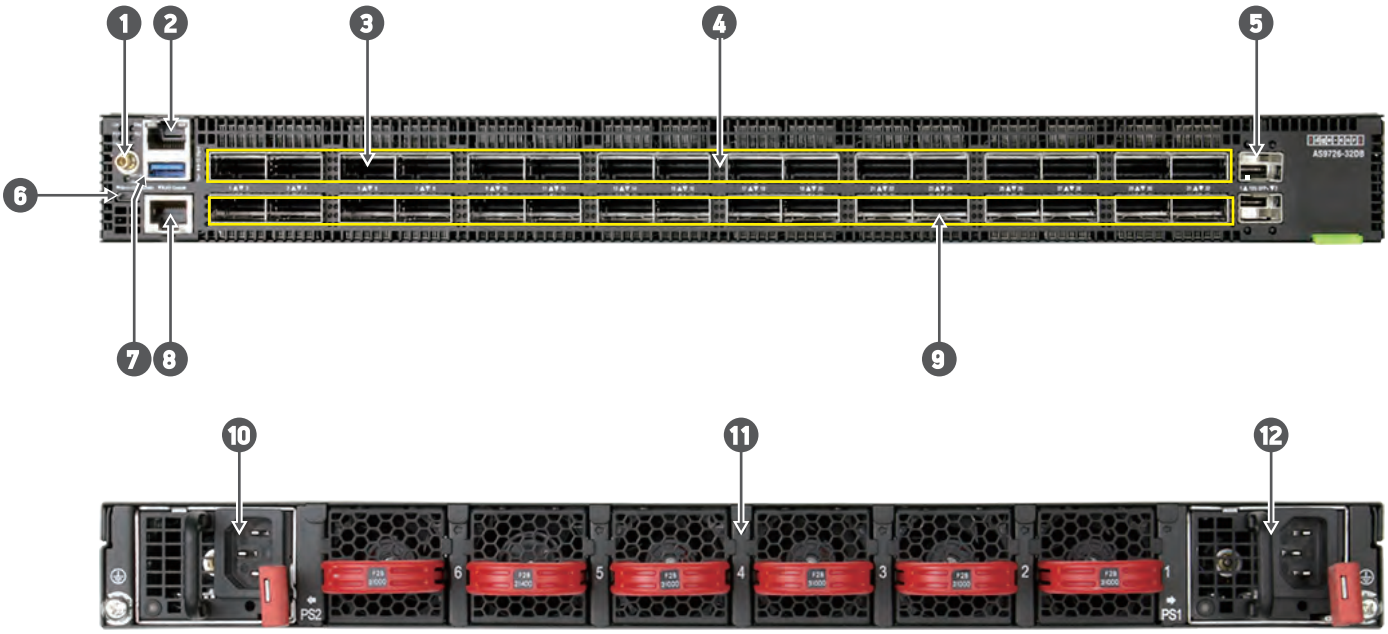
Greater control

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 24W 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
  Power Budget: 24 W on upper 16 ports, 14 W on lower 16 ports
  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
  • Note: More optics and detailed cabling information can be found at www.edge-core.com.

Key Componets

- Switch Silicon: BCM56880 Trident 4
- CPU Modules:
  Processor: Intel® Pentium® Processor D1519 4-Core 1.5 GHz
  SPI Flash: 32MB x 2
  Memory: DDR4 SO-DIMM 8GB x 2 with ECC support
  Storage: m.2 NVMe SSD 64GB x 1 MLC

Performance

- Switching Capability: 12.8 Tbps full duplex
- Forwarding Rate: 5.4 Bpps
- Jumbo frames support up to 9416 bytes
- Packet Buffer Size: 132 MB SmartBuffer
- 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 to 70°C (-40°F to 158°F)
- Operating Temperature:
  (FtoB): 0°C ~ 45°C (32°F ~ 113°F)
  (BtoF): 0° C ~ 35° C (32°F to 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.

Power

- PSUs: 2 redundant, load-sharing, hot-swappable AC or 48VDC
- AC input ranges:
  100-180VAC at 50-60Hz (1000 W max.)*
  200-240VAC at 50-60Hz (1500 W max.)
  *200-240VAC may be required for power redundancy under full loading.
  AC Inlet: IEC 60320 C14
- 48VDC input ranges:
  -40 - -75VDC (1600W/40A max.)
  DC Inlet: Terminal screws
- Power Consumption
  Min. (w/o transceivers): 396 W@100VAC/386 W@240VAC
  Max. (w/o transceivers): 714 W@100VAC/653 W@240VAC

Regulatory

- Emissions:
  EN 55032 Class A
  EN 61000-3-2
  EN 61000-3-3
  FCC Class A
- Immunity:
  EN 55035
  EN 55024
  IEC 61000-4-2/3/4/5/6/8/11
- Safety:
  UL (CSA 22.2 No 62368-1 & UL62368-1)
  CB (IEC/EN60950-1 & IEC/EN 62368-1)
- Environmental:
  GR63-CORE (Pre-test)
- RoHS-2.0 Compliant
- Electrical and Electronic Equipment (WEEE Directive 2002/96/EC)

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: AS9726-32DB; Intel® Pentium® Processor D1519 4-Core; 32-Port 400G QSFP56-DD; ONIE Software Installer.

Model Number	Part Number	PSU	Airflow	Region (Power Cord)
AS9726-32DB-O-AC-F	FP5ZZ8632023A	Dual AC PSUs	Front-to-Back Airflow	without power cord
AS9726-32DB-O-AC-B	FP5ZZ8632025A	Dual AC PSUs	Back-to-Front Airflow	without power cord

200-240VAC, 1500 W max. (power redundancy under full loading)

Model Number	Part Number	PSU	Airflow	Region (Power Cord)
AS9726-32DB-O-AC-F-UN	FP5ZZ8632405A	Dual AC PSUs	Front-to-Back Airflow	IEC 60320 C13-C14
AS9726-32DB-O-AC-B-UN	FP5ZZ8632406A	Dual AC PSUs	Back-to-Front Airflow	IEC 60320 C13-C14
AS9726-32DB-O-AC-F-EU	FP5ZZ8632202A	Dual AC PSUs	Front-to-Back Airflow	IEC 60083 Type E/F (CEE 7/7) EU
AS9726-32DB-O-AC-B-EU	FP5ZZ8632203A	Dual AC PSUs	Back-to-Front Airflow	IEC 60083 Type E/F (CEE 7/7) EU
AS9726-32DB-O-AC-F-UK	FP5ZZ8632302A	Dual AC PSUs	Front-to-Back Airflow	IEC 60083 Type G (BS 1363) UK
AS9726-32DB-O-AC-B-UK	FP5ZZ8632303A	Dual AC PSUs	Back-to-Front Airflow	IEC 60083 Type G (BS 1363) UK

100-120VAC, 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	Region (Power Cord)
AS9726-32DB-O-AC-F-US	FP5ZZ8632402A	Dual AC PSUs	Front-to-Back Airflow	NEMA 5-15
AS9726-32DB-O-AC-B-US	FP5ZZ8632403A	Dual AC PSUs	Back-to-Front Airflow	NEMA 5-15
AS9726-32DB-O-AC-F-JP	FP5ZZ8632502A	Dual AC PSUs	Front-to-Back Airflow	JIS C 8303, Class I
AS9726-32DB-O-AC-B-JP	FP5ZZ8632503A	Dual AC PSUs	Back-to-Front Airflow	JIS C 8303, Class I

48VDC, 1600 W max. (includes 6/8AWG (4.3/6.4mm²) power cord 3 x Ring terminal to 3 x Ring terminal, 3m)

Model Number	Part Number	PSU	Airflow	Region (Power Cord)
AS9726-32DB-O-48V-F	FP5ZZ8632048A	Dual 48VDC PSUs	Front-to-Back Airflow	
AS9726-32DB-O-48V-B	FP5ZZ8632047A	Dual 48VDC PSUs	Back-to-Front Airflow	

AC PSUs (power cord not included)

Model Number	Part Number	Airflow	Region (Power Cord)
FSJ001-612G	F0OZZ8632002A	Front-to-Back	Worldwide
FSJ004-612G	F0OZZ8632003A	Back-to-Front	Worldwide
SPAACTN-01 S539	F0OZZ8632004A	Front-to-Back	Worldwide except Japan, Taiwan
SPAACTN-02 S540	F0OZZ8632005A	Back-to-Front	Worldwide except Japan, Taiwan

48VDC PSUs (power cord not included)

Model Number	Part Number	Airflow	Region (Power Cord)
FSJ035-610G	F0OZZ8632008A	Front-to-Back	Worldwide
FSJ036-610G	F0OZZ8632009A	Back-to-Front	Worldwide

Fans

Model Number	Part Number	Airflow
FAN-1U-1x1N-F	F0OZZ8632006A	Front-to-Back
FAN-1U-1x1N-B	F0OZZ8632007A	Back-to-Front