# 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.
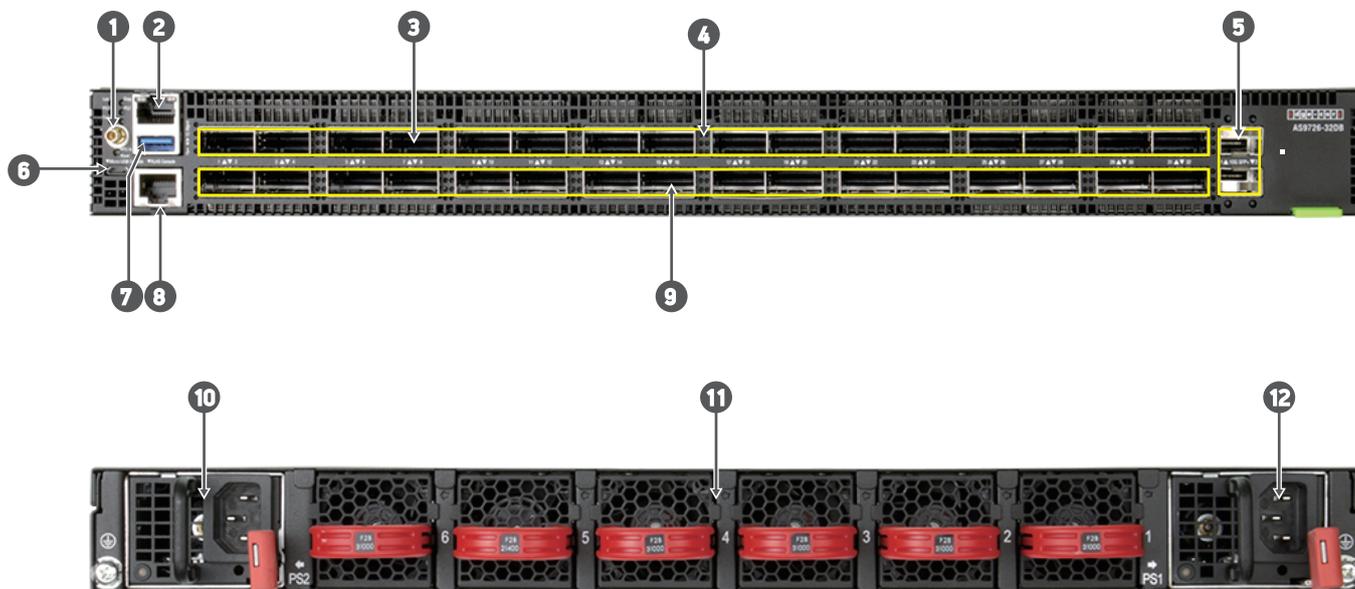
## Key Features and Benefits

■ 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



## 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.)
    - 200-219 VAC at 50-60 Hz (8 A/1350 W max.)*
    - 220-240 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 | F0ZZ8632002A | AC | Front-to-Back |
| PSU-AC-1500A-B | F0ZZ8632003A | AC | Back-to-Front |
| PSU-AC-1500B-F | F0ZZ8632004A | AC | Front-to-Back |
| PSU-AC-1500B-B | F0ZZ8632005A | AC | Back-to-Front |
| PSU-48V-1500-F | F0ZZ8632008A | 48VDC | Front-to-Back |
| PSU-48V-1500-B | F0ZZ8632009A | 48VDC | Back-to-Front |

## Fan FRUs

| Model Number | Part Number | Airflow |
|---|---|---|
| FAN-1U-1x1N-F | F0ZZ8632006A | Front-to-Back |
| FAN-1U-1x1N-B | F0ZZ8632007A | Back-to-Front |

## Accessories

| Model Number | Part Number | Description |
|---|---|---|
| RKIT-100G-SLIDE | F0ZZ7632001A | Tool-less Rack Mounting Rail Slide Kit (674 mm - 919 mm ±3 mm) |