DATA CENTER 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.

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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.