AS9716-32D
400 GbE Data Center Switch Bare-Metal Hardware

OPEN ACCEPTED

Product Overview

The Edgecore AS9716-32D is spine switch for high-performance data centers. The switch provides line-rate L2 and L3 switching across the 32 x QSFP-DD ports, each supporting 1 x 400 GbE or 1 x 100 GbE, or via breakout cables 4 x 100 GbE or 4 x 25 GbE. The AS9716-32D can be deployed as a spine switch supporting 100/400 GbE spine 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 Open Network Linux, plus commercial NOS offerings.

Key Features and Benefits

■ Cost-effective, open network switch for data center fabric.

■ 32 x QSFP-DD switch ports, each supporting 1 x 400 GbE or 1 x 100 GbE, or via breakout cables 4 x 100 GbE or 4 x 25 GbE.

■ Incorporates Broadcom Tomahawk III switch series silicon for non-blocking line rate performance.

■ High-performance Intel Xeon D-1518 CPU with optional BMC.

■ 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 1300 W PSUs.

■ 5+1 redundant, hot-swappable fan modules.

■ Bare-metal hardware switch pre-loaded with diagnostics software and with Open Network Install Environment (ONIE) for automated loading of compatible open source and commerical NOS offerings.

■ Compatible with Open Network Linux (ONL), the open-source, OCP reference NOS.

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onie

ONL CERTIFIED GOLD

Features

Ports

Switch Ports: 32 x QSFP-DD 400 GbE
Management ports on port side:
  1 x RJ-45 serial console
  1 x RJ-45 100/1000BASE-T management

Key Componets

Switch Silicon: BCM56980 Tomahawk III
CPU Modules:
  Intel Xeon D-1518 quad-core 2.4 GHz
  DDR4: 8 GB x 2 SO-DIMM
  SPI Flash: 128 MB x 2
  mSATA: 32 GB x 1

Performance

Switching Capability: 25.6 Tbps full duplex
Forwarding Rate: 19 Bpps
Jumbo frames support up to 9 Kbytes
Packet Buffer Size: 64 MB integrated packet buffer
Subject to NOS:
  MAC Addresses: 8 K
  VLAN IDs: 4 K
  L3 Host
  IPv4 UC: 16 K
  IPv4 MC: 8 K
  IPv6 UC: 8 K
  IPv6 MC: 4 K

Physical and Environmental

Dimensions (WxDxH): 43.84 x 53.6 x 4.31 cm (17.25 x 21.1 x 1.69 in)
Weight: 11.06 kg (24.38 lb)
Fans: Hot-swappable 5 + 1 redundant fans
Operating Temperature: 0°C ~ 45°C (32°F ~ 113°F)
Operating Humidity: 5% ~ 95% non-condensing

QSFP-DD Port LEDs

LED: Blue (400G), White (200G), Green (100G), Green (50G)
Management Port LED: Green: (10 G), Flashing: Activity
System LEDs: PSU1, PSU2, Fan, Diag, and Loc
Reset button

Software

Switch is loaded with Open Network Install Environment (ONIE)
  software installer
Compatible with the following NOS options:
  Open Network Linux, the open-source, OCP reference NOS

Power

PSUs: 2 redundant, load-sharing, hot-swappable AC
Input Voltage: 90 to 240 VAC at 50-60 Hz

Regulatory

EMI
  CE Mark
    EN 55032
    AS/NZS CISPR 32
    EN 55024
    EN 61000 3-2
    EN 61000 3-3
    CISPR 32
  FCC Part 15 Subpart B Class A
  VCCI Class A
  Safety
    CB
    UL
  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 EdgecoreNetworks Corporation representatives at +886 3 563 8888 (HQ) or +1 (877) 828-CORE (877-828-2673) or authorized resellers.

TEL: +886-3-5638888 FAX: +886-3-6686111
No.1, Creation Rd. III, Hsinchu Science Park, Taiwan 30077
sales@edge-core.com   www.edge-core.com

TEL: +1 (949)-336-6801
20 Mason Irvine, CA 92618

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