DCS510 Data Center Switch

Edge-corE NETWORKS

DATA CENTER SWITCH

AS9716-32D

The Edgecore DCS510 is a 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 DCS510 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, plus commercial NOS offerings.

Key Features and Benefits

- 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 3 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 1300 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 commercial NOS offerings.

OPEN ACCEPTED™ OPEN PLATINUM™ OPEN Compute Project SOLUTION PROVIDER

Freedom of choice

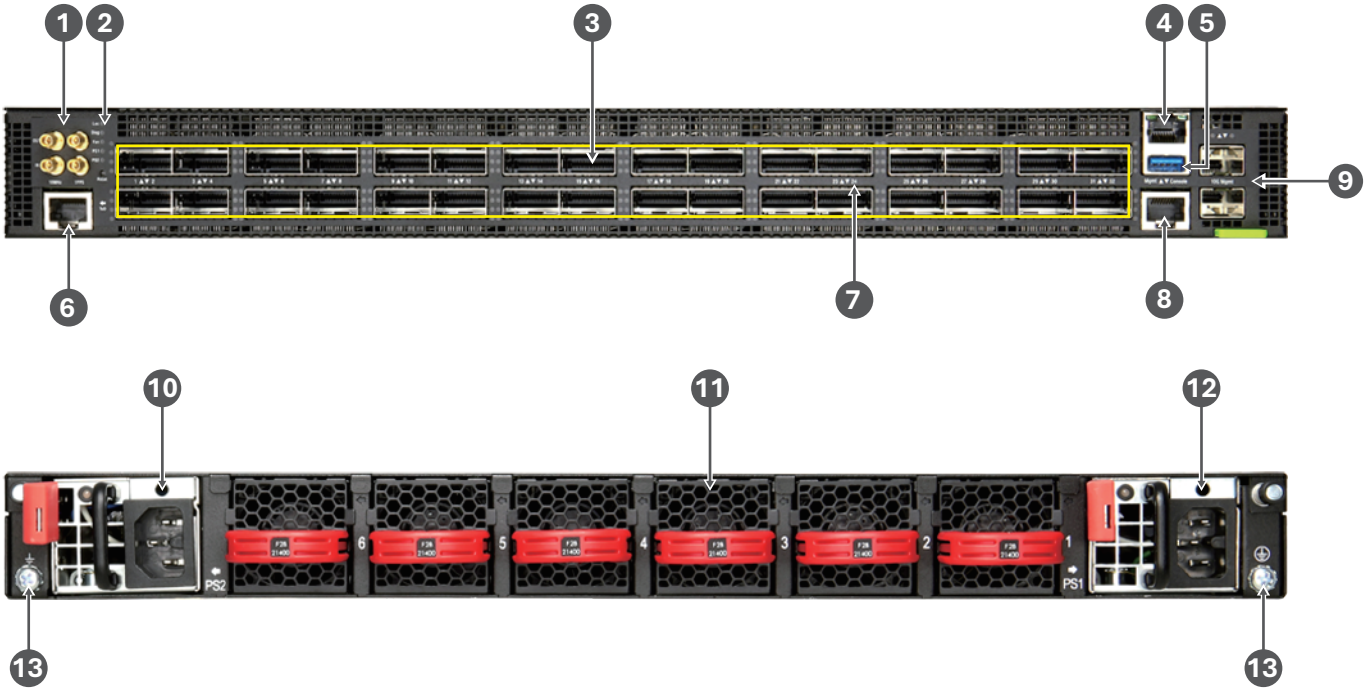
Greater control

Rapid innovation

Free Software Included

onie

Interfaces



Description			
1.	10 MHz and 1PPS timing ports	8.	Console port
2.	System LEDs	9.	2 x 10G SFP+ management ports
3.	32 x 400G QSFP-DD Ports	10.	PSU 2
4.	RJ-45 management port	11.	Hot-swappable 5 + 1 redundant fans
5.	USB storage port	12.	PSU 1
6.	ToD port	13.	Grounding point
7.	Port indicators		

Ports
- Switch ports: 32 x QSFP-DD 400 GbE
- Management ports on port side:
  1 x RJ-45 serial console
  1 x RJ-45 1000BASE-T management
  2 x SFP+ 10G management
- Supported Transceivers and Cables:
  40GBASE-SR4/LR4
  40G-DAC cable
  100GBASE-SR4/CWDM4/LR4
  100G-DAC/AOC cable
  400GBASE-SR8/DR4/FR4
  400G-DAC/AOC cable
  - Note: More optics and detailed cabling information can be found at www.edge-core.com.

Key Components
- Switch silicon: BCM56980 Tomahawk 3
- CPU modules:
  Intel® Xeon® Processor D-1518 4-Core
  DDR4: 8 GB x 2 SO-DIMM
  SPI Flash: 16 MB x 2
  m.2 SSD: 50G MLC x 1

Performance
- Switching Capability: 12.8 Tbps (25.6 Tbps full duplex)
- Forwarding Rate: 7.93 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
- Storage Temperature: -40°C to 70°C (-40°F to 158°F)
- Operating Temperature: 0°C ~ 45°C (32°F ~ 113°F)
- Operating Humidity: 5% ~ 95% non-condensing

System and Port LEDs
- QSFP-DD Port LEDs: 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 source options, plus commercial NOS offerings.

Power
- PSUs: 2 redundant, load-sharing, hot-swappable AC
- AC Input Range: 100~240 VAC at 50-60 Hz

Regulatory
- EMI
  CE Mark
  EN55032
  CISPR 32
  AS/NZS CISPR 32
  EN55024
  CISPR 24
  CISPR 35
  EN 61000-3-3
  EN 61000-3-2
  FCC Title 47, Part 15, Subpart B Class A
  VCCI Class A
  CCC
- Safety
  CB
  EN60950, UL60950
  EN62368, UL62368
- 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: AS9716-32D; Intel® Xeon® Processor D-1518 4-Core; 32-Port 400G QSFP-DD; ONIE Software Installer.				
Model Number	**Part Number**	**PSU**	**Airflow**	**Region (Power Cord)**
9716-32D-O-AC-F-US	FP5ZZ8632400A	Dual AC PSUs	Front-to-Back airflow	N. America
9716-32D-O-AC-B-US	FP5ZZ8632401A	Dual AC PSUs	Back-to-Front airflow	N. America
9716-32D-O-AC-F-EU	FP5ZZ8632200A	Dual AC PSUs	Front-to-Back airflow	EU
9716-32D-O-AC-B-EU	FP5ZZ8632201A	Dual AC PSUs	Back-to-Front airflow	EU
9716-32D-O-AC-F-UK	FP5ZZ8632300A	Dual AC PSUs	Front-to-Back airflow	UK
9716-32D-O-AC-B-UK	FP5ZZ8632301A	Dual AC PSUs	Back-to-Front airflow	UK
9716-32D-O-AC-F-JP	FP5ZZ8632500A	Dual AC PSUs	Front-to-Back airflow	JP
9716-32D-O-AC-B-JP	FP5ZZ8632501A	Dual AC PSUs	Back-to-Front airflow	JP