

## Data Center AS7326-56X

The Edgecore DCS203 switch is a Top-of-Rack (TOR) switch for high-performance data centers. In a compact 1RU form factor, the switch provides line-rate L2 and L3 switching across the 48 x SFP28 + 8 x QSFP28 ports, and each QSFP28 port can be configured as 4 x 25 GbE, 1 x 40 GbE, or 4 x 10 GbE by using DAC breakout cables. The DCS203 can be deployed as a TOR switch supporting 10/25 GbE to servers with 40/100 GbE uplinks. This open network switch is loaded with the Open Network Install Environment (ONIE), which supports the installation of compatible Network Operating System (NOS) software, including the open source plus commercial NOS offerings.

### Key Features and Benefits

- Deploy as TOR switch supporting 10 or 25 GbE to servers, with 40 GbE, or 100 GbE uplinks.
- 48 x SFP28 + 8 x QSFP28 switch ports, each QSFP28 supporting 1 x 100 GbE or 1 x 40 GbE, or via breakout cables, 4 x 25 GbE, or 4 x 10 GbE.
- Layer 2 or Layer 3 forwarding of 2 Tbps.
- Supports hot/cold aisles with front-to-back or back-to-front airflow SKUs.
- All ports on front; PSUs and fans accessible from rear.
- Hot-swappable, load-sharing, redundant AC or -48V DC PSUs.
- 5+1 redundant, hot-swappable fan modules.
- Energy efficient.
- Hardware switch pre-loaded with Open Network Install Environment (ONIE) for automated loading of compatible open source and commercial NOS offerings.



## Ports

- Switch Ports:  
48 x 25 GbE SFP28 plus 8 x 100 GbE QSFP28 ports:
  - Each SFP28 supports 1 x 1 GbE (fixed speed, no Auto-negotiation) or 10GbE or 25 GbE single rate transceivers, AOC, and DAC
  - RJ-45 transceivers are supported with H/W version R01G or newer
  - Each QSFP28 supports 1 x 40/100 GbE or 4 x 25 GbE or 4 x 10 GbE per port using breakout cables
  - Note: When a DAC cable is used in a topology, a link issue may be encountered if the CR4 Auto-Negotiation/Link Training does not turn on. This can be solved by manually enabling CR4 Auto Negotiation/Link Training.
- Management Ports on Port Side:  
1 x RJ-45 serial console  
1 x RJ-45 100/1000BASE-T management  
1 x USB Type A storage
- Supported Transceivers and Cables:  
10GBASE-RJ45  
10G-DAC/AOC Cable  
25GBASE-SR/LR  
25G-DAC/AOC Cable  
40GBASE-SR4/LR4  
40G-DAC/AOC Cable  
100GBASE-SR4/CWDM4/LR4  
100G-DAC/AOC Cable
  - Note: More optics and detailed cabling information can be found at [www.edge-core.com](http://www.edge-core.com).

## Key Componets

- Switch Silicon: Broadcom BCM56873 Trident 3  
No PHYs
- CPU Modules:  
Intel® Xeon® D-1518 processor 4-Core 2.2 GHz  
DDR4: SO-DIMM 8 GB x 2  
SPI Flash: 16 MB x2  
m.2 SSD: 64 GB MLC

## Performance

- Switching Capacity: 2 Tbps full duplex
- Forwarding Rate: 2 Bpps
- Jumbo frames support up to 9K Bytes
- Packet Buffer Size: 32 MB integrated packet buffer
- MAC Addresses: 32 K min./288 K max.
- VLAN IDs: 4 K
- IPv4: 16 K min./168 K max. host entries; 32 K LPM entries with TCAM-only mode
- IPv6: 8K min/100 K max. host entries; IPv6/128= 8 K TCAM-only mode

## Physical and Environmental

- Dimensions (WxDxH): 43.84 x 53.6 x 4.35 cm (17.26 x 21.1 x 1.71 in.)
- Weight: 10 kg (22.05 lb), with two installed PSUs
- Operating Temperature:  
F2B Operating: 0°C to 45°C (32° F to 113° F)  
B2F Operating: 0°C to 40°C (32° F to 104° F)
- Storage Temperature: -40°C to 70°C (-40°F to 158°F)
- Operating Humidity: 5% to 95% non-condensing

## LEDs

- SFP28 Port LEDs: Link Status, Activity, Rate
- QSFP28 Port LEDs: Link Status, Activity, Rate
- Ethernet Management Port LED: Link Status, Activity
- System LEDs: Diagnostic, Locator, PSU and Fan Status

## Power

- PSUs: 2 redundant, load-sharing, hot-swappable AC or -48 VDC
- AC input range: 100–240 VAC
- DC input range: -36~-72 VDC
- Redundant, current sharing, PG

## 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.

## Regulatory

- EMI:  
CE Mark  
EN55032 Class A  
EN55024  
EN61000-3-2  
EN61000-3-3  
FCC 47 CFR Part 15b Class A  
VCCI Class A  
CCC  
BSMI
- Safety:  
CB  
UL/CUL  
CCC  
BSMI
- Environmental:  
NEBS GR63-CORE (Pre-test)
- RoHS 2.0 Compliant
- Country of Origin: Taiwan (TAA Compliant)
- The switch complied with the following WEEE standards:  
Waste Electrical and Electronic Equipment (WEEE Directive 2002/96/EC)