

Data Center Switch

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 and commercial NOS offerings.

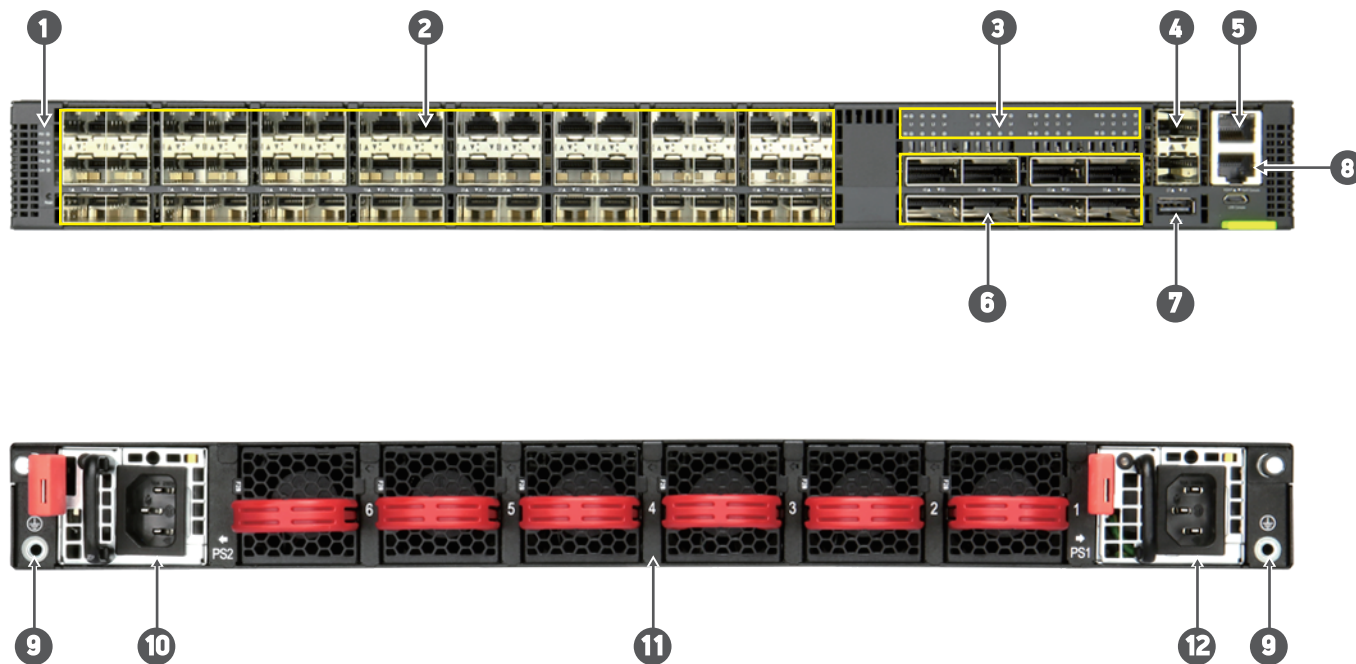
Key Features and Benefits

- 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.





Interfaces



Description

1. System LEDs	7. USB storage port
2. 48 x 25G/SFP28 ports	8. Console port
3. Port indicators	9. Grounding point
4. 2 x 10G management ports	10. PSU 2
5. Management port	11. Hot-swappable 5 + 1 redundant fans
6. 8 x 100G/QSFP28 ports	12. PSU 1

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.

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 (4 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:
 - EN 55032 Class A
 - EN 55024
 - EN 61000-3-2 Class A
 - EN 61000-3-3
 - FCC Class A
 - VCCI Class A
 - CCC GB 9254-2008, Class A
 - BSMI Class A, CNS 13438
 - IEC 61000-4-2/3/4/5/6/8/11
- Safety:
 - UL (CSA 22.2 No 60950-1 & UL60950-1)
 - CB (IEC/EN60950-1)
 - CCC GB4943.1-2011
 - BSMI, CNS 14336-1
- RoHS CNS 15663
- Country of Origin: Taiwan (TAA Compliant)
- The switch complied with the following WEEE standards:
 - Waste Electrical and Electronic Equipment (WEEE Directive 2002/96/EC)

Ordering Information

Base Model: AS7326-56X; Intel® Xeon® D-1518 Processor 4-Core; 48-25G SFP28 + 8-Port 100G QSFP28; ONIE Software Installer.

Model Number	Part Number	PSU	Airflow	Region (Power Cord)
7326-56X-0-AC-F-US	FP4ZZ7656402A	Dual AC PSUs	Front-to-Back Airflow	N. America
7326-56X-0-AC-B-US	FP4ZZ7656403A	Dual AC PSUs	Back-to-Front Airflow	N. America
7326-56X-0-AC-F-EU	FP4ZZ7656200A	Dual AC PSUs	Front-to-Back Airflow	EU
7326-56X-0-AC-B-EU	FP4ZZ7656201A	Dual AC PSUs	Back-to-Front Airflow	EU
7326-56X-0-AC-F-UK	FP4ZZ7656300A	Dual AC PSUs	Front-to-Back Airflow	UK
7326-56X-0-AC-B-UK	FP4ZZ7656301A	Dual AC PSUs	Back-to-Front Airflow	UK
7326-56X-0-AC-F-JP	FP4ZZ7656500A	Dual AC PSUs	Front-to-Back Airflow	JP
7326-56X-0-AC-B-JP	FP4ZZ7656501A	Dual AC PSUs	Back-to-Front Airflow	JP
7326-56X-0-48V-F	FP4ZZ7656011A	Dual DC PSUs	Front-to-Back Airflow	
7326-56X-0-48V-B	FP4ZZ7656013A	Dual DC PSUs	Back-to-Front Airflow	
YM-2651Y, B01R	F0TZZ5654019A	650 W AC Power Supply FRU	Front-to-Back Airflow	
YM-2651Y, C01R	F0TZZ5654020A	650 W AC Power Supply FRU	Back-to-Front Airflow	
FAN-1U-1x1I-F	F0TZZ7656000A	Fan Module FRU	Front-to-Back Airflow	
FAN-1U-1x1I-B	F0TZZ7656001A	Fan Module FRU	Back-to-Front Airflow	

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.

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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.

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