

AS7326-56X Switch

25GbE Data Center Switch

Bare-Metal Hardware



Product Overview

The Edgecore AS7326-56X 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 2 x 50 GbE, 4 x 25 GbE, 1 x 40 GbE, or 4 x 10 GbE by using DAC breakout cables. The AS7326-56X can be deployed as a TOR switch supporting 10/25 GbE to servers with 40/50/100 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 options Open Network Linux plus commercial NOS offerings.

Key Features and Benefits

- Cost-effective, bare-metal switch infrastructure for data center fabric.
- Deploy as Top-of-Rack switch supporting 10 or 25 GbE to servers, with 40 GbE, 50 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, 2 x 50 GbE, 4 x 25 GbE, or 4 x 10 GbE.
- Layer 2 or Layer 3 forwarding of 4 Tbps (full duplex).
- Supports hot/cold aisles with port-to-power and power-to-port 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.
- Bare-metal hardware switch pre-loaded with diagnostics software and with Open Network Install Environment (ONIE) for automated loading of compatible open source and commercial NOS offerings.
 Compatible with Open Network Linux (ONL), an open-source, OCP reference NOS.
 Compatible with Cumulus® Linux® .
 Compatible with PicOS™ from Pica8 Inc.

Data Center Switch



Features

Ports

- Switch ports:
 - 48x25 GbE SFP28 plus 8x100 GbE QSFP28 ports:
 - Each SFP28 supports 1 x 10 GbE or 25 GbE
 - Each QSFP28 supports 1 x 40/100 GbE or 4 x 25 GbE or 4 x 10 GbE per port using breakout cables
- 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

Key Componets

- Switch Silicon: Broadcom BCM56873 Trident III
- No PHYs
- CPU Modules:
 - Intel® Xeon® D-1518 processor quad-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: 4 Tbps full duplex
- Forwarding Rate: 2.9 Bpps
- Jumbo frames support up to 9K Bytes
- Packet Buffer Size: 32 MB integrated packet buffer
- Subject to NOS:
- 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: 0°C to 45°C (32°F to 113°F)
- Storage Temperature: -40°C to 70°C (-40°F to 158°F)
- Operating Humidity: 5% to 95% non-condensing

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
- Compatible with Cumulus® Linux®
- Compatible with PicOS™ from Pica8 Inc

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

Regulatory

- EMI
 - CE Mark
 - EN55032 Class A
 - EN55024
 - EN61000-3-2
 - EN61000-3-3
- FCC Title 47, Part 15, Subpart B Class A
- VCCI Class A
- CCC
- BSMI
- Safety
 - CB
 - UL/CUL
 - CCC
 - BSMI
- Environmental:
 - NEBS GR63-CORE (Pre-test)
- RoHS 2.0 Compliant
- The switch complied with the following WEEE standards:
 - Waste 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.

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Ordering Information

Base Model: AS7326-56X; 48-25G SFP28 + 8-Port 100G QSFP28; ONIE software installer

Model Number		PSU	Airflow	Region (power cord)
7326-56X-O-AC-F-US	Intel® Xeon® D-1518 Processor	dual AC PSUs	port-to-power airflow	N. America
7326-56X-O-AC-B-US	Intel® Xeon® D-1518 Processor	dual AC PSUs	power-to-port airflow	N. America
7326-56X-O-AC-F-EU	Intel® Xeon® D-1518 Processor	dual AC PSUs	port-to-power airflow	Europe
7326-56X-O-AC-B-EU	Intel® Xeon® D-1518 Processor	dual AC PSUs	power-to-port airflow	Europe
7326-56X-O-AC-F-UK	Intel® Xeon® D-1518 Processor	dual AC PSUs	port-to-power airflow	UK
7326-56X-O-AC-B-UK	Intel® Xeon® D-1518 Processor	dual AC PSUs	power-to-port airflow	UK
7326-56X-O-AC-F-JP	Intel® Xeon® D-1518 Processor	dual AC PSUs	port-to-power airflow	Japan
7326-56X-O-AC-B-JP	Intel® Xeon® D-1518 Processor	dual AC PSUs	power-to-port airflow	Japan
7326-56X-O-48V-F	Intel® Xeon® D-1518 Processor	dual DC PSUs	port-to-power airflow	
7326-56X-O-48V-B	Intel® Xeon® D-1518 Processor	dual DC PSUs	power-to-port airflow	