

AS7726-32X Switch

100GbE Data Center Switch

Bare-Metal Hardware



Product Overview

The Edgecore AS7726-32X switch is a Top-of-Rack (TOR) or spine switch for high-performance data centers. In a compact 1RU form factor, the switch provides line-rate L2 and L3 switching across the 32 x QSFP28 ports, and each QSFP28 port can be configured as 2x50G, 4x25G, 1x40GbE or 4x10GbE by using DAC breakout cables. The AS7726-32X can be deployed as a TOR switch supporting 10/25/50 GbE to servers with 40/50/100 GbE uplinks, or as a spine switch supporting 40/50/100 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 and 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.
- Deploy as spine switch supporting 40 GbE, 50 GbE, or 100 GbE ToR and spine interconnects.
- 32 x QSFP28 switch ports, each supporting 1 x 100 GbE or 1 x 40 GbE, or via breakout cables, 2 x 50 GbE or 4 x 25 GbE or 4 x 10 GbE.
- Layer 2 or Layer 3 forwarding of 6.4 Tbps (full duplex).
- Supports hot/cold aisle 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.
- Hardware switch pre-loaded with Open Network Install Environment (ONIE) for automated loading of compatible open source and commercial NOS offerings.
 - Compatible with Open Network Linux (ONL), the open-source, OCP reference NOS.
 - Compatible with Cumulus[®] Linux[®].
 - Compatible with PicOS[™] from Pica8 Inc.
 - Compatible with OcNOS[™] 1.3.5 and later version from IP Infusion.

Data Center Switch

Features

Ports

- Switch ports:
 - 32 x QSFP28 ports. Each port supports 1 x 40/100 GbE or 2 x 50 GbE or 4 x 10/25 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 Components

- Switch Silicon: Broadcom BCM56870 Trident III 3.2 Tbps
 - 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 x 2
 - m.2 SSD: 64 GB MLC

Performance

- Switching Capacity: 6.4 Tbps full duplex
- Forwarding Rate: 4.7 Bpps
- Jumbo frames support up to 9216 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: 8 K min. /100 K max. host entries; IPv6/128= 8 K TCAM-only mode

Physical and Environmental

- Dimensions (WxDxH): 43.84 x 51.5 x 4.35 cm (17.25 x 20.27 x 1.71 in.)
- Weight: 10.87 kg (23.96 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 Open Network Linux (ONL), the open-source, OCP reference NOS
- Compatible with Cumulus® Linux®
- Compatible with PicOS™ from Pica8 Inc

LEDs

- QSFP 28 Port LEDs: Link Status, Activity, Rate
- Ethernet Management Port LED: Link Status, Activity
- Console Port LED: Link Status
- System LEDs: Diagnostic, Locator, PSU and Fan Status

Power

- PSUs: 2 redundant, load-sharing, hot-swappable AC or -48 VDC
- AC input range: 100 V~240 VAC
- DC input range: -36~-75 VDC
- Power Consumption: 550 Watts maximum
- Redundant, current sharing, PG

Regulatory

- EMI
 - CE Mark
 - EN55032 Class A
 - EN55024
 - EN61000-3-2
 - EN61000-3-3
- FCC 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: AS7726-32X; 32-Port 100G QSFP28; ONIE software installer

| Model Number | | PSU | Airflow | Region (power cord) |
|--------------------|-------------------------------|--------------------------|-----------------------|---------------------|
| 7726-32X-O-AC-F-US | Intel® Xeon® Processor D-1518 | dual AC PSUs | port-to-power airflow | N. America |
| 7726-32X-O-AC-B-US | Intel® Xeon® Processor D-1518 | dual AC PSUs | power-to-port airflow | N. America |
| 7726-32X-O-AC-F-EU | Intel® Xeon® Processor D-1518 | dual AC PSUs | port-to-power airflow | Europe |
| 7726-32X-O-AC-B-EU | Intel® Xeon® Processor D-1518 | dual AC PSUs | power-to-port airflow | Europe |
| 7726-32X-O-AC-F-UK | Intel® Xeon® Processor D-1518 | dual AC PSUs | port-to-power airflow | UK |
| 7726-32X-O-AC-B-UK | Intel® Xeon® Processor D-1518 | dual AC PSUs | power-to-port airflow | UK |
| 7726-32X-O-AC-F-JP | Intel® Xeon® Processor D-1518 | dual AC PSUs | port-to-power airflow | Japan |
| 7726-32X-O-AC-B-JP | Intel® Xeon® Processor D-1518 | dual AC PSUs | power-to-port airflow | Japan |
| 7726-32X-O-48V-F | Intel® Xeon® Processor D-1518 | dual DC PSUs | port-to-power airflow | |
| 7726-32X-O-48V-B | Intel® Xeon® Processor D-1518 | dual DC PSUs | power-to-port airflow | |
| YM-2651Y, B01R | | 650W AC Power Supply FRU | port-to-power airflow | |
| YM-2651Y, C01R | | 650W AC Power Supply FRU | power-to-port airflow | |
| FAN-1U-1x1C-F | | Fan Module FRU | port-to-power airflow | |
| FAN-1U-1x1C-B2 | | Fan Module FRU | power-to-port airflow | |