AS7726-32X Switch
100GbE Data Center Switch
Bare-Metal Hardware

Data Center Switch

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.

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 Componets

Switch Silicon: Broadcom BCM56870 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 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): 44.25 x 47.3 x 4.39 cm (17.42 x 18.62 x 1.73 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	