

Minipack AS8000 Open Modular Platform

100G and 400G Switching for Data Center Fabric and Central Office



Product Overview

The Edgecore Minipack AS8000 open modular platform meets the high performance and high capacity 100G and 400G networking requirements for high-radix 100G and 100G/400G data center architectures, next generation leaf/spine fabrics in CORD deployments, Ethernet services aggregation, internet exchanges and service provider central offices. The Minipack AS8000 provides full line-rate switching at Layer 2 and Layer 3 across 100 GbE and 400GbE ports. The open modular platform, lowers equipment cost and power consumption, simplifies cabling, and supports independent NOS and SDN software.

Key Features and Benefits

- Cost-effective, bare-metal infrastructure for data center fabric.
- Next generation of leaf/spine fabrics network with high capacity fabrics with flexible combinations of 100G and 400G interfaces.
- Open modular system with QSFP28 non-blocking switch ports, each supporting 1 x 100G, 2 x 50G, 1 x 40G, 4 x 25G or 4 x 10G and QSFP-DD ports, each supporting 400G.
- Full line-rate Layer 2 or Layer 3 forwarding.
- All ports on front; PSUs, fan modules on rear.
- Hot-swappable, load sharing, redundant AC power input options.
- Hot swappable redundant fan modules.
- Hardware switch pre-loaded with Open Network Install Environment (ONIE) for automated loading of compatible open source and commercial NOS offerings.
- Software Options:
Open Network Linux (ONL), the open source OCP reference NOS
SONiC open source network software
Cumulus[®] Linux[®]

Bare-Metal Hardware



Features

Ports

Switch Ports:

Open modular system with QSFP28 non-blocking switch ports, each supporting 1 x 100G, 2 x 50G, 1 x 40G, 4 x 25G or 4 x 10G and QSFP-DD ports, each supporting 400G.

System Control Module:

1 x RJ45 console port
1 x USB Type-A port on front panel
1 x RJ-45/SFP OOB 10/100/1000Mbps ethernet port

Key Components

Switch Silicon: Broadcom BCM56980 Tomahawk 3 12.8 Tbps

CPU Modules:

Intel® Xeon® D-1527 processor quad-core 2.2 GHz
DDR4: SO-DIMM 16 GB x 2
NOR Flash: 16MB

Performance

Switching Capability: 25.6 Tbps full duplex

Forwarding Rate: 19 Bpps

Jumbo frames support up to 9 Kbytes

Packet Buffer Size: 64 MB integrated packet buffer

Subject to NOS:

MAC Addresses: 8 K
VLAN IDs: 4 K
L3 Host
IPv4 UC: 16 K
IPv4 MC: 8 K
IPv6 UC: 8 K
IPv6 MC: 4 K

Physical

Dimensions (WxDxH): 44.04 x 75.55 x 17.62 cm (17.34 x 29.74 x 6.94 in.), 4 RU

Weight: 55 kg (121.25 lb), with 1 SCM, 8 PIMs, 8 fan trays, and 4 PSUs

Environmental

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 Open Network Linux (ONL), the open-source, OCP reference NOS

Compatible with SONiC open source network software

Compatible with Cumulus® Linux®

Power

PSUs: Redundant hot swappable power supply modules

Minipack AS8000: 2 + 2

4x1500 W AC/DC Power Supplies

AC input range: 100-120 VAC, 10 A; 200-277 VAC, 9 A; 50/60 Hz per PS x4

Max Power: 3000 W

Regulatory

EMI

CE

FCC Part 15, Subpart B Class A

VCCI Class A

AS/NZS CISPR 22

EN 55032 Class A

EN 55024

EN 61000-3-2

EN 61000-3-3

IEC 61000-4-2/3/4/5/6/8/11

Safety

CB, UL/CUL

Environmental:

Temperature: IEC 68-2-14

Vibration: IEC 68-2-36, IEC 68-2-6

Shock: IEC 68-2-29

RoHS 2.0 Compliant

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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