

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

## Minipack AS8000 Open Modular Platform



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

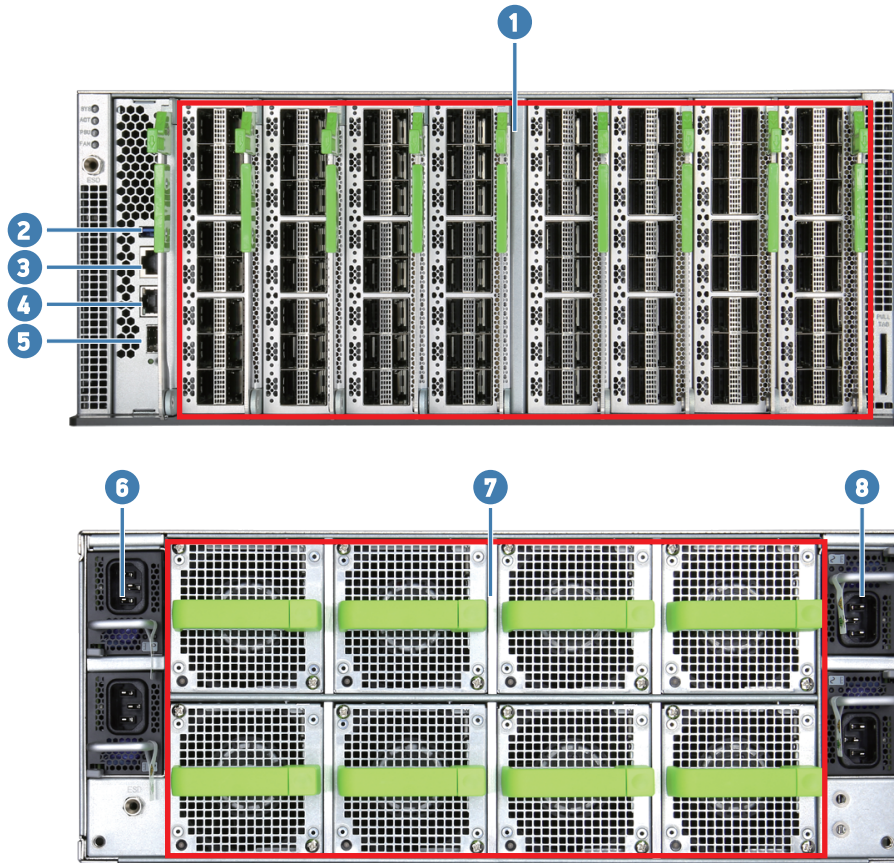
- Cost-effective, bare-metal infrastructure for data center fabric.
- Next generation of leaf/spine fabrics network with high capacity fabrics with flexible combinations of 100G and 400G interfaces.
- Open modular system with QSFP28 non-blocking switch ports, each supporting 1 x 100G, 2 x 50G, 1 x 40G, 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



Software Supported



Interfaces



Description			
1	Slot 1~8	5	SFP port
2	USB port	6	PSUs #03~04
3	Console port	7	FANs #01~08
4	Ethernet RJ-45 port	8	PSUs #01~02

**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  
\*Rack-rails kit is not include in box, it needs to order separately.

**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) ofware installer
- Compatible with Open Network Linux (ONL), the open-source, OCP reference NOS  
Compatible with SONiC open source network software

**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](http://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](http://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](http://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

Model Number	CPU Module	PSU	Airflow	Region (power cord)
Minipack-AS8000-O-AC-F-US	Intel®Xeon® D-1527 Processor	4 PSUs	port-to-power airflow	N.America
Minipack-AS8000-O-AC-F-JP	Intel®Xeon® D-1527 Processor	4 PSUs	port-to-power airflow	Japan
Minipack-AS8000-O-AC-F-EU	Intel®Xeon® D-1527 Processor	4 PSUs	port-to-power airflow	Europe
Minipack-AS8000-O-AC-F-UK	Intel®Xeon® D-1527 Processor	4 PSUs	port-to-power airflow	UK

Model Number	Description
Minipack-AS8000-FAN	Minipack-AS8000 fan modules
Minipack-AS8000-PSU	Minipack-AS8000 AC power wupply, port-to-power airflow
Minipack-AS8000-Chassis	Minipack-AS8000 empty chassis
Minipack-AS8000-RAIL KIT	Minipack-AS8000 rack mount kit (front and back)