

400 GbE Data Center Spine Switch

Bare-Metal Hardware

AS9516-32D



The Edgecore AS9516-32D switch is a programmable leaf or spine switch for large scale data centers. In a 1RU form factor, the switch provides line-rate L2 switching and L3 routing, deep packet inspection, traffic load balancer etc network function virtualization, across the 32 x QSFP-DD ports, supporting up to 32 x 400 GbE connections. The AS9516-32D can be deployed as a leaf switch supporting 25/50/100 GbE to servers, routers etc with 100/400 GbE uplinks, or as a spine switch supporting 100/400 GbE leaf and spine interconnects. 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 option Open Network Linux and commercial NOS offerings.

Key Features and Benefits

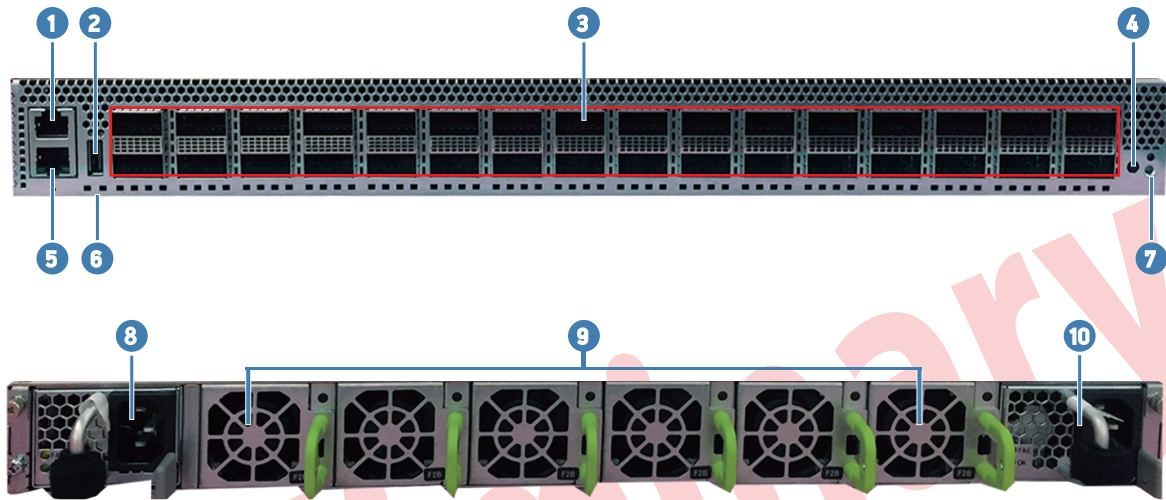
- Very high performance, bare-metal switch infrastructure for data center fabric.
- Designed with programmable Tofino2 switch silicon from Barefoot Networks.
- Deploys as leaf or spine switch supporting 25/50/100 GbE to servers, with 100 or 400 GbE uplinks.
- Deploys as spine switch supporting 100 or 400 GbE leaf and spine interconnects.
- 32 x QSFP-DD switch ports, each supporting 1 x 400 GbE, or via breakout cables 4 x 100 GbE, 8 x 50 GbE or 16 x 25 GbE or 40 GbE or 10 GbE.
- Layer 2 or Layer 3 forwarding of 12.8 Tbps (full duplex).
- Supports port-to-power airflow direction.
- All ports on front; PSUs and fans accessible from rear.
- Hot-swappable, load-sharing, redundant AC power.
- 6 redundant, hot-swappable fan modules.
- Switch pre-loaded with diagnostics and Open Network Install Environment (ONIE) for automated loading of compatible open source and commercial NOS offerings.
- Compatible with SONiC open source network software.
- Quad-pipe programmable packet processing pipeline for 12.8 Tbps total bandwidth.



Software Supported



Interfaces



Description

1	Console port	6	System LEDs
2	USB storage port	7	Breakout mode LEDs
3	32 x 100G QSFP-DD ports	8	PSU 2
4	Breakout mode Button Port indicators	9	Hot-swappable 5 + 1 redundant fans
5	Management port	10	PSU 1

Ports

- Switch Ports:
32 x QSFP-DD ports. Each Port supports 1 x 400 GbE or 4 x 100 GbE or 8 x 50 GbE or 16 x 25 GbE per port using breakout cables
- Management ports on port side:
1 x RJ-45 serial console
1 x RJ-45 1G BASE-T management
1 x USB Type A storage
Board Monitor Controller (BMC) Aspeed AST1250A1-GP 400MHz

Key Components

- Switch Silicon : Barefoot Tofino2 (BFN-T20-128Q (U series)
- CPU Modules:
Intel Pentium D-1517 (4 core@1.6GHz)
8GB SO-DIMM
128GB M.2 SSD

Performance

- Switching Capacity: 12.8 Tbps
- Forwarding Rate: 9.5 Bpps
- Jumbo frames support up to 9216 Bytes
- Packet Buffer Size: 24 MB integrated packet buffer

Physical and Environmental

- Dimensions (WxDxH):
440 x 507 x 44 mm (17.32 x 19.97 x 1.73 inch)
- Weight
10.005 kg (20.05 lb)
- Fans: 6 hot-swappable redundant fans
- Operating Temperature: 0°C to 40°C (32°F to 104°F)
- Storage Temperature: -40°C to 70°C (-40°F to 158°F)
- Operating Humidity: 0% to 95% non-condensing
- Operating Altitude: 0 to 10,000 feet

Software

- Switch is loaded with Open Network Install Environment (ONIE) software installer
- Compatible with ONL and SONiC software

LEDs

- QSFP-DD 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
- Input Voltage: 90 to 240 VAC at 50-60 Hz

Regulatory Compliance

- FCC Part 15 Subpart B Class A

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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