

10G/100G Edge Switch

Bare Metal Hardware

AS5916-54XL



The AS5916-54XL is based on Broadcom's StrataDNX[®] Qumran MX[™] switch silicon capable of line-rate 800 Gbps Layer 2 and Layer 3 switching. The switch can be deployed either as a Top-of-Rack switch in the data center, or as a carrier access/aggregation switch.

The AS5916-54XL hardware comes with high-availability design features, including redundant, hot-swappable AC or 48 VDC PSUs, and 5+1 redundant fan modules with port-to-power airflow option. The Edgecore AS5916-54XL switch meets the high-performance, availability, and scalability requirements of cloud data centers and communication service providers.

Key Features and Benefits

- High performance, data center top-of-rack and carrier access/aggregation switch.
- 48 x SFP+ switch ports, supporting 10 GbE (DAC, AOC, 10GBASE-SR/LR) or 1 GbE (1000BASE-T/SX/LX).
- 6 x 100G QSFP28 ports at front.
- Rack mountable in standard 19" racks.
- Hot-swappable, load sharing, redundant AC or 48 VDC PSU power input options.
- Hot swappable 5+1 redundant fan modules.
- Management: Ethernet and console RJ-45 ports.
- 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).
- Compatible with DriveNets DNOS.

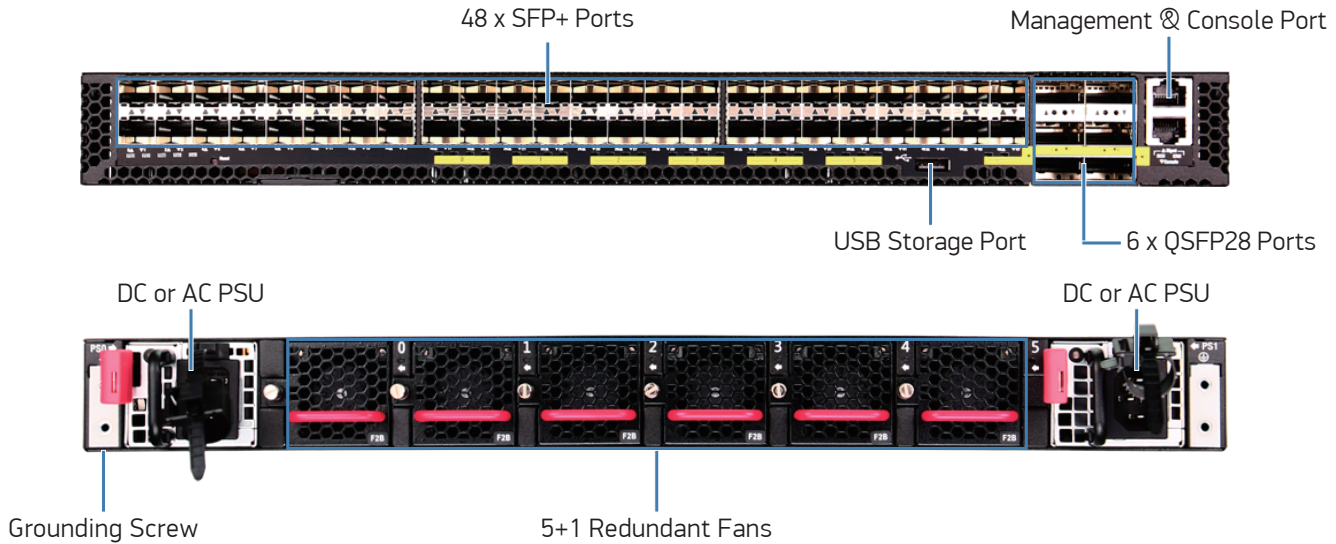


Software Supported

ONIE DRIVENETS



Interfaces



Ordering Information

Base Model: AS5916-54XL; 48-Port 10G QSFP+ with 6 x 100G QSFP28 uplinks; ONIE software installer

Model Number	CPU Module	PSU	Airflow	Region (power cord)
5916-54XL-O-AC-F-US	Intel® Xeon® D-1518 Processor	dual AC PSUs	port-to-power airflow	N. America
5916-54XL-O-AC-F-EU	Intel® Xeon® D-1518 Processor	dual AC PSUs	port-to-power airflow	Europe
5916-54XL-O-AC-F-UK	Intel® Xeon® D-1518 Processor	dual AC PSUs	port-to-power airflow	UK
5916-54XL-O-AC-F-UN	Intel® Xeon® D-1518 Processor	dual AC PSUs	port-to-power airflow	C13 - C14 Power Cord
5916-54XL-O-AC-F-JP	Intel® Xeon® D-1518 Processor	dual AC PSUs	port-to-power airflow	Japan
5916-54XL-O-AC-F	Intel® Xeon® D-1518 Processor	dual AC PSUs	port-to-power airflow	N/A
5916-54XL-O-48V-F	Intel® Xeon® D-1518 Processor	dual 48 VDC PSUs	port-to-power airflow	N/A
5916-54XL-OT-AC-F-US	Intel® Xeon® D-1518 Processor	dual AC PSUs	port-to-power airflow	N. America
5916-54XL-OT-AC-F-EU	Intel® Xeon® D-1518 Processor	dual AC PSUs	port-to-power airflow	Europe
5916-54XL-OT-AC-F-UK	Intel® Xeon® D-1518 Processor	dual AC PSUs	port-to-power airflow	UK
5916-54XL-OT-AC-F-UN	Intel® Xeon® D-1518 Processor	dual AC PSUs	port-to-power airflow	C13 - C14 Power Cord
5916-54XL-OT-AC-F-JP	Intel® Xeon® D-1518 Processor	dual AC PSUs	port-to-power airflow	Japan
5916-54XL-OT-AC-F	Intel® Xeon® D-1518 Processor	dual AC PSUs	port-to-power airflow	N/A
5916-54XL-OT-48V-F	Intel® Xeon® D-1518 Processor	dual 48 VDC PSUs	port-to-power airflow	N/A

Ports

- Switch Ports:
 - 48 x SFP+ each supporting 10 GbE or 1 GbE
 - 6 x 100G QSFP28 each supporting 1 x 40/100 GbE
- Management Ports on Front Panel:
 - 1 x RJ-45 serial console
 - 1 x RJ-45 100/1000BASE-T management port
 - 1 x USB Type A storage port
 - 1 x BMC

Key Components

- Broadcom Qumran-MX BCM88370
- CPU Modules:
 - Intel® Xeon® D-1518 processor quad-core 2.2 GHz
 - DDR4 SO-DIMM 8 GB x 2
 - m.2 SSD: 128GB MLC

Performance

- Switching Capacity: 800 Gbps
- Processing Rate: 700 Mpps

Supported Optics and Cables

- SFP+ Ports:
 - 10GBASE-CR DAC: up to 3 m passive; up to 10 m active
 - 10GBASE-SR: up to 100/300 m over OM3 MMF
 - 10GBASE-LR: up to 10 km over SMF
 - 1000BASE-SX, 1000BASE-LX, 100/1000BASE-T
- QSFP28 Ports:
 - 40GBASE-CR4 DAC: up to 3 m passive; up to 10 m active
 - 40GBASE-CR4 DAC to 4 x SFP+ 10GBASE-CR DAC; up to 3 m passive; up to 10 m active
 - 40GBASE-SR4: up to 100 m over OM3 MMF, 150 m over OM4 MMF
 - 40GBASE-LR4: up to 10 km over SMF
 - 100GBASE-SR4: 100 Gbps short reach transceiver
 - 100GBASE-LR4: 100 Gbps long reach transceiver
 - QSFP28 AOC Cable: 100 Gbps to 100 Gbps AOC cable with up to 30 M
 - 100G QSFP28 to 100G QSFP28

Physical and Environmental

- Dimensions (WxDxH): 43.84 x 50.19 x 4.4 cm (17.26 x 19.76 x 1.73 inch)
- Weight: 9.7 kg (21.38 lb), with two installed PSU modules
- Fans: hot-swappable 5+1 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: 5% to 95% non-condensing

Software

- Switch is loaded with Open Network Install Environment (ONIE) software installer
- Compatible with the following NOS options: Open Network Linux (ONL)

Power

- PSUs: 2 redundant, load-sharing, hot-swappable AC or 48 VDC
- AC input range: 100–240 VAC
- DC input range: -36~72 VDC

Regulatory Compliance

- EMI
 - CE Mark
 - EN55032 Class A
 - EN55024
 - EN61000-3-2
 - EN61000-3-3
 - FCC Part 15 Subpart B Class A
 - VCCI Class A
- Safety
 - CB
 - UL/CUL
- Environmental:
 - NEBS GR-63-CORE (Pre-test)
- RoHS 2.0 Compliant
- WEEE Standards: The switches 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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