

## AGGREGATION ROUTER

AS5916-54XL



The Edgecore AGR110 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 AGR110 hardware comes with high-availability design features, including redundant, hot-swappable AC or 48VDC PSUs, and 5+1 redundant fan modules with front-to-back airflow. The Edgecore AGR110 switch meets the high-performance, availability, and scalability requirements of cloud data centers and communication service providers.

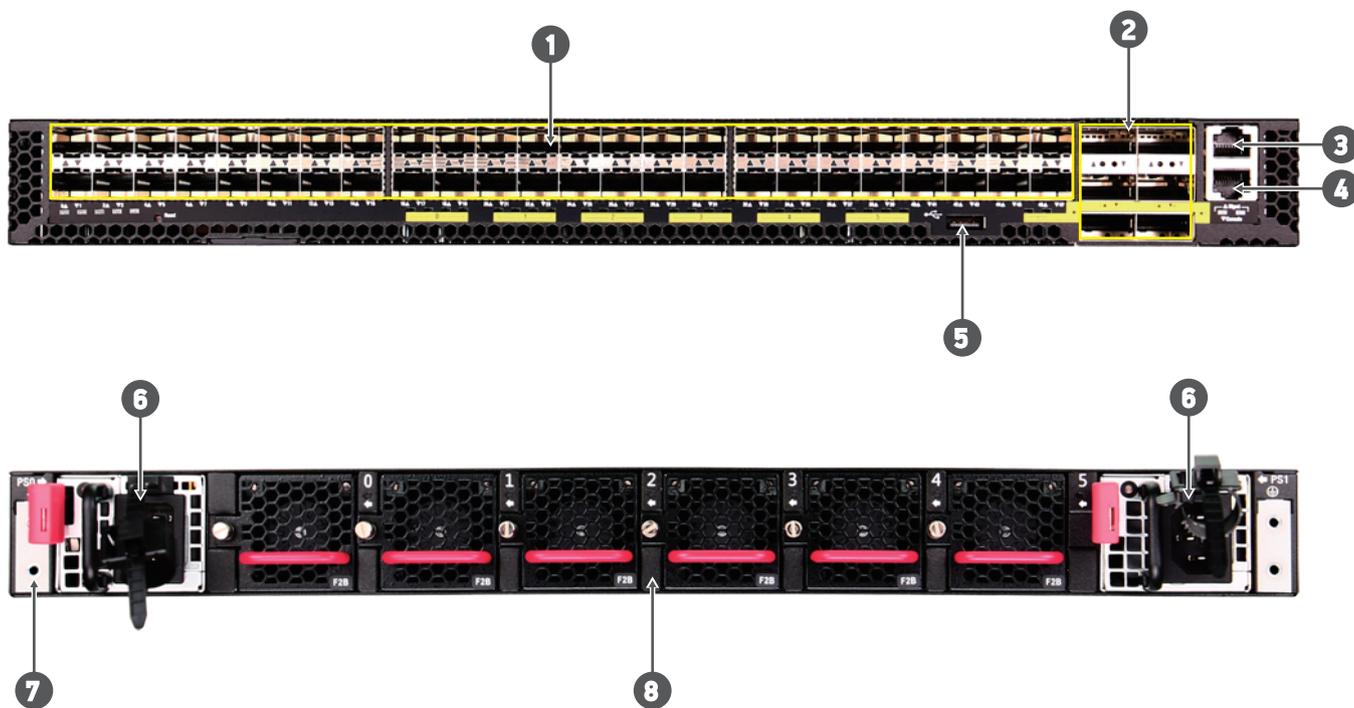
### Key Features and Benefits

- 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 on the front.
- Support for IEEE1588v2 and SyncE functions in hardware.
- 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).





## Interfaces



### Description

- |                          |                                       |
|--------------------------|---------------------------------------|
| 1. 48 x SFP+ ports       | 5. USB storage port                   |
| 2. 6 x QSFP28 ports      | 6. DC or AC PSU                       |
| 3. RJ-45 management port | 7. Grounding screw                    |
| 4. RJ-45 console port    | 8. Hot-swappable 5 + 1 redundant fans |

## 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 (storage)
  - 1 x BMC

## Key Components

- Broadcom BCM88370 Qumran-MX
- CPU module:
  - Processor: Intel® Xeon® D-1518 processor 4-core 2.2 GHz
  - Memory: 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
  - 10GBASE-ER4: Up to 40 km over SMF
  - 10GBASE-ZR: Up to 80 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: Up 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): 438.4 x 501.9 x 44 mm (17.26 x 19.76 x 1.73 in)
- 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

- Safety Compatibility
  - CB
  - UL/CUL
- EMI
  - CE Mark
  - EN55032 Class A
  - EN55024
  - EN61000-3-2
  - EN61000-3-3
  - FCC Part 15 Subpart B Class A
  - VCCI Class A
- Environmental: NEBS Level 3
- 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](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

**Base Model: AS5916-54XL; Intel® Xeon® D-1518 4-Core, 48-Port 10G QSFP+ with 6 x 100G QSFP28 Uplinks; ONIE Software Installer.**

Model Number	Part Number	PSU	Airflow	Region (Power cord)
5916-54XL-O-AC-F-US	FP1ZZ5654430A	Dual AC PSUs	Front-to-Back Airflow	N. America
5916-54XL-O-AC-F-EU	FP1ZZ5654230A	Dual AC PSUs	Front-to-Back Airflow	EU
5916-54XL-O-AC-F-UK	FP1ZZ5654330A	Dual AC PSUs	Front-to-Back Airflow	UK
5916-54XL-O-AC-F-UN	FP1ZZ56540BJA	Dual AC PSUs	Front-to-Back Airflow	C13 - C14 Power Cord
5916-54XL-O-AC-F-JP	FP1ZZ5654534A	Dual AC PSUs	Front-to-Back Airflow	JP
5916-54XL-O-AC-F	FP1ZZ56540BGA	Dual AC PSUs	Front-to-Back Airflow	N/A
5916-54XL-O-48V-F	FP1ZZ56540BEA	Dual 48 VDC PSUs	Front-to-Back Airflow	N/A
5916-54XL-OT-AC-F-US	FP1ZZ5654431A	Dual AC PSUs	Front-to-Back Airflow	N. America
5916-54XL-OT-AC-F-EU	FP1ZZ5654231A	Dual AC PSUs	Front-to-Back Airflow	EU
5916-54XL-OT-AC-F-UK	FP1ZZ5654331A	Dual AC PSUs	Front-to-Back Airflow	UK
5916-54XL-OT-AC-F-UN	FP1ZZ56540BMA	Dual AC PSUs	Front-to-Back Airflow	C13 - C14 Power Cord
5916-54XL-OT-AC-F-JP	FP1ZZ5654535A	Dual AC PSUs	Front-to-Back Airflow	JP
5916-54XL-OT-AC-F	FP1ZZ56540BLA	Dual AC PSUs	Front-to-Back Airflow	N/A
5916-54XL-OT-48V-F	FP1ZZ56540BNA	Dual 48 VDC PSUs	Front-to-Back Airflow	N/A