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 port-to-power airflow option. The Edgecore AGR110 switch meets the high-performance, availability, and scalability requirements of cloud data centers and communication service providers.
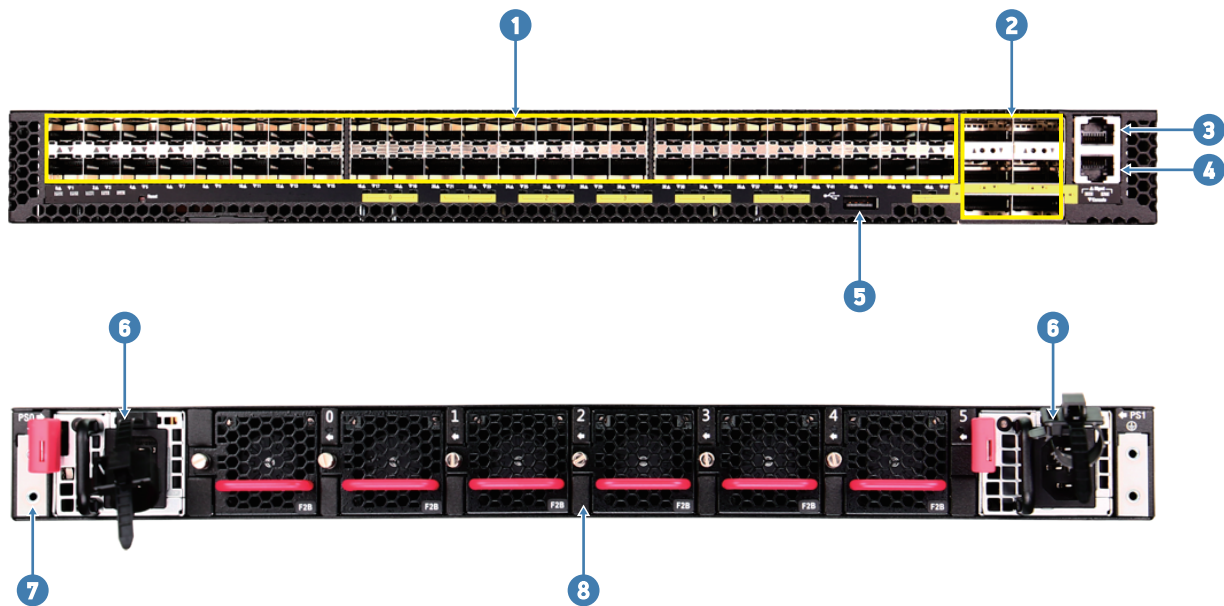
Key Features and Benefits

- 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 at front.
- Support 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).

OPEN PLATINUM

OPEN Compute Project
SOLUTION PROVIDER

Freedom of choice

Greater control

Rapid innovation

Reduced CAPEX and OPEX

Edge-core ®
NETWORKS

Free Software Included

onie

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 Type A storage port
  1 x BMC

Key Components

- Broadcom Qumran-MX BCM88370
- CPU module:
  Processor: Intel® Xeon® D-1518 processor quad-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
  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): 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 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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NETWORKS

Ordering Information

Base Model: AS5916-54XL; Intel® Xeon® D-1518 Processor, 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-C	Dual AC PSUs	Port-to-Power airflow	N. America
5916-54XL-O-AC-F-EU	FP1ZZ5654230A-C	Dual AC PSUs	Port-to-Power airflow	EU
5916-54XL-O-AC-F-UK	FP1ZZ5654330A-C	Dual AC PSUs	Port-to-Power airflow	UK
5916-54XL-O-AC-F-UN	FP1ZZ56540BJA-C	Dual AC PSUs	Port-to-Power airflow	C13 - C14 Power Cord
5916-54XL-O-AC-F-JP	FP1ZZ5654534A-C	Dual AC PSUs	Port-to-Power airflow	JP
5916-54XL-O-AC-F	FP1ZZ56540BGA-C	Dual AC PSUs	Port-to-Power airflow	N/A
5916-54XL-O-48V-F	FP1ZZ56540BEA-C	Dual 48 VDC PSUs	Port-to-Power airflow	N/A
5916-54XL-OT-AC-F-US	FP1ZZ5654431A-C	Dual AC PSUs	Port-to-Power airflow	N. America
5916-54XL-OT-AC-F-EU	FP1ZZ5654231A-C	Dual AC PSUs	Port-to-Power airflow	EU
5916-54XL-OT-AC-F-UK	FP1ZZ5654331A-C	Dual AC PSUs	Port-to-Power airflow	UK
5916-54XL-OT-AC-F-UN	FP1ZZ56540BMA-C	Dual AC PSUs	Port-to-Power airflow	C13 - C14 Power Cord
5916-54XL-OT-AC-F-JP	FP1ZZ5654535A-C	Dual AC PSUs	Port-to-Power airflow	JP
5916-54XL-OT-AC-F	FP1ZZ56540BLA-C	Dual AC PSUs	Port-to-Power airflow	N/A
5916-54XL-OT-48V-F	FP1ZZ56540BNA-C	Dual 48 VDC PSUs	Port-to-Power airflow	N/A