

Aggregation Router AS5916-54XM



The Edgecore AGR120 is a deep-packet buffer router optimized for carrier access and aggregation and data center applications. Based on Broadcom's StrataDNX[®] Qumran MX[™] ASIC, the device supports line-rate 800Gbps Layer 2 and Layer 3 functions and is equipped with a powerful Intel Xeon CPU. The AGR120 supports IEEE 802.1AE MACSEC functionality delivering secure encrypted communications on the 10G downlink ports.

The AGR120 hardware comes with high-availability designs. Including redundant, hot-swappable AC or -48 VDC PSUs. Fans are designed with 5+1 redundant fan modules with port-to-power or power-to-port airflow options. The Edgecore AGR120 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 or edge router.
- 48 x SFP+ switch ports, supporting 10 GbE (DAC, AOC, 10GBASE-SR/LR) or 1 GbE (1000BASE-T/SX/LX).
- 6 x 100G QSFP28 or 6 x 40G QSFP ports at front.
- Support for IEEE 802.1AE MACsec encryption.
- Rack mountable in standard 19" racks.
- Hot-swappable, load sharing, redundant AC or 48 VDC PSUs.
- Hot swappable 5+1 redundant fan modules.
- Management: Ethernet and console RJ-45 ports; USB storage port.
- 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).



Freedom
of choice



Greater
control



Rapid
innovation

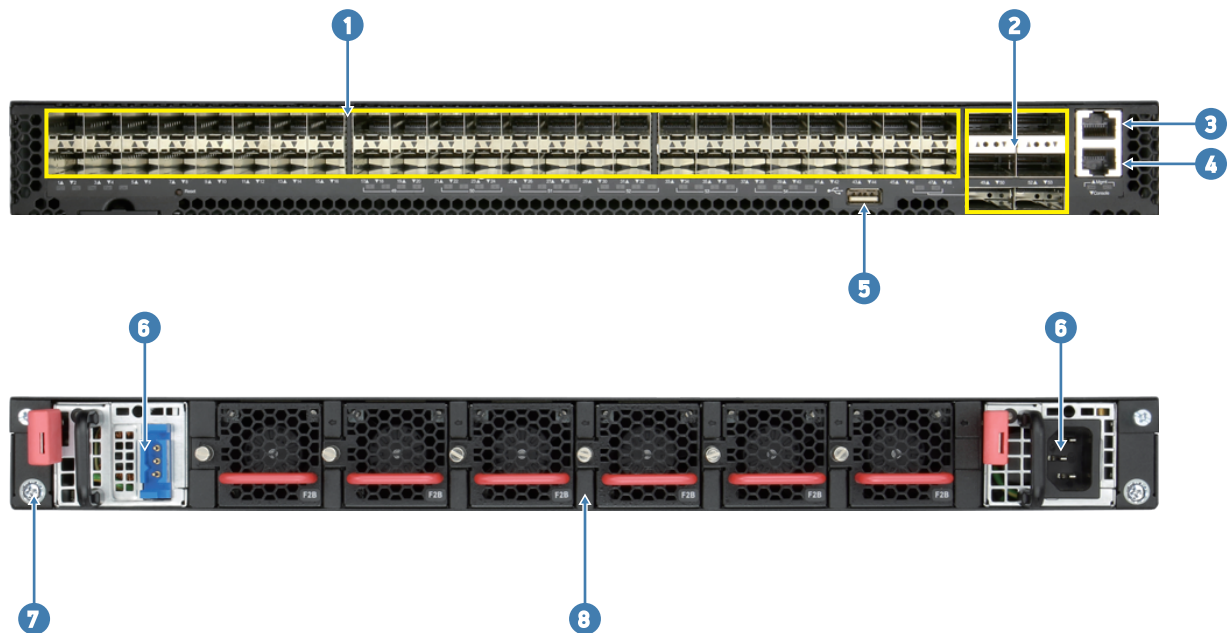


Reduced
CAPEX and OPEX

Free Software Included

onle

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. 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 or
6 x 40G QSFP each supporting 1 x 40 GbE or 4 x 10 GbE or 4 x 25 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

Key Components

- Switch Silicon:
Broadcom Qumran-MX BCM88370
- CPU module:
Processor: Intel® Xeon® D-1518 quad-core x86 Processor
Memory: DDR4: SO-DIMM 8 GB x 2
m.2 SSD: 32 GB MLC

Performance

- Switching Capability: 800 Gbps
- Processing rate: 720 Mpps

Supported Optics and Cables

- SFP+ Ports:
10GBASE-CR DAC: up to 3 m passive; up to 10 m active
10GBASE-SR/LR: up to 100/300 m over OM3 MMF
10GBASE-LR: Up to 10 km over SMF
100GBASE-SX, 100GBASE-LX, 100/1000BASE-T
- QSFP+ 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 upto 30 M
100G QSFP28 to 100 G QSFP28

Physical and Environmental

- Dimensions (WxDxH): 438.4x 609x 43.25 mm (17.26 x 23.98 x 1.70 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 power input
- AC input range: 100 V~240 VAC
- DC input range: -36~72 VDC

Regulatory Compliance

- Safety Compatibility
CB
UL/CUL
CCC
BSMI
- EMI
CE Mark
EN 55032 Class A
EN55024
EN 61000-3-2
EN 61000-3-3
FCC Part 15 Subpart B Class A
VCCI Class A
CCC
BSMI
- Environmental Compliance
NEBS GR63-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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Ordering Information

Base model: AS5916-54XM; 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)
AS5916-54XM-O-AC-F-US	FP1ZZ5654413A-C	Dual AC PSUs	Port-to-Power airflow	N. America
AS5916-54XM-O-AC-B-US	FP1ZZ5654416A-C	Dual AC PSUs	Power-to-Port airflow	N. America
AS5916-54XM-O-AC-F-EU	FP1ZZ5654215A-C	Dual AC PSUs	Port-to-Power airflow	EU
AS5916-54XM-O-AC-B-EU	FP1ZZ5654216A-C	Dual AC PSUs	Power-to-Port airflow	EU
AS5916-54XM-O-AC-F-UK	FP1ZZ5654315A-C	Dual AC PSUs	Port-to-Power airflow	UK
AS5916-54XM-O-AC-B-UK	FP1ZZ5654316A-C	Dual AC PSUs	Power-to-Port airflow	UK
AS5916-54XM-O-AC-F-JP	FP1ZZ5654515A-C	Dual AC PSUs	Port-to-Power airflow	JP
AS5916-54XM-O-AC-B-JP	FP1ZZ5654516A-C	Dual AC PSUs	Power-to-Port airflow	JP
AS5916-54XM-O-48V-F	FP1ZZ5654093A-C	Dual 48 VDC PSUs	Port-to-Power airflow	NA