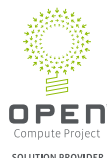# Aggregation Router
AS5916-54XKS

OPEN
ACCEPTED™

The Edgecore AGR130 is a Broadcom StrataDNX™ Qumran MX switch silicon based router capable of reaching line-rate at 800 Gbps for Layer 2 and Layer 3 switching. Equipped with BCM15K TCAM, the switch can be deployed either as a top-of-rack switch in a data center, or as a carrier access/aggregation switch, and edge router.

The AGR130 hardware comes with a high-availability design. Including a pair of redundant hot-swappable AC or 48 VDC PSUs. Fans are designed with 5+1 redundant fan modules with port-to-power airflow option. The Edgecore AGR130 switch meets the high-performance, availability, and scalability requirements of cloud data centers and communication service providers.
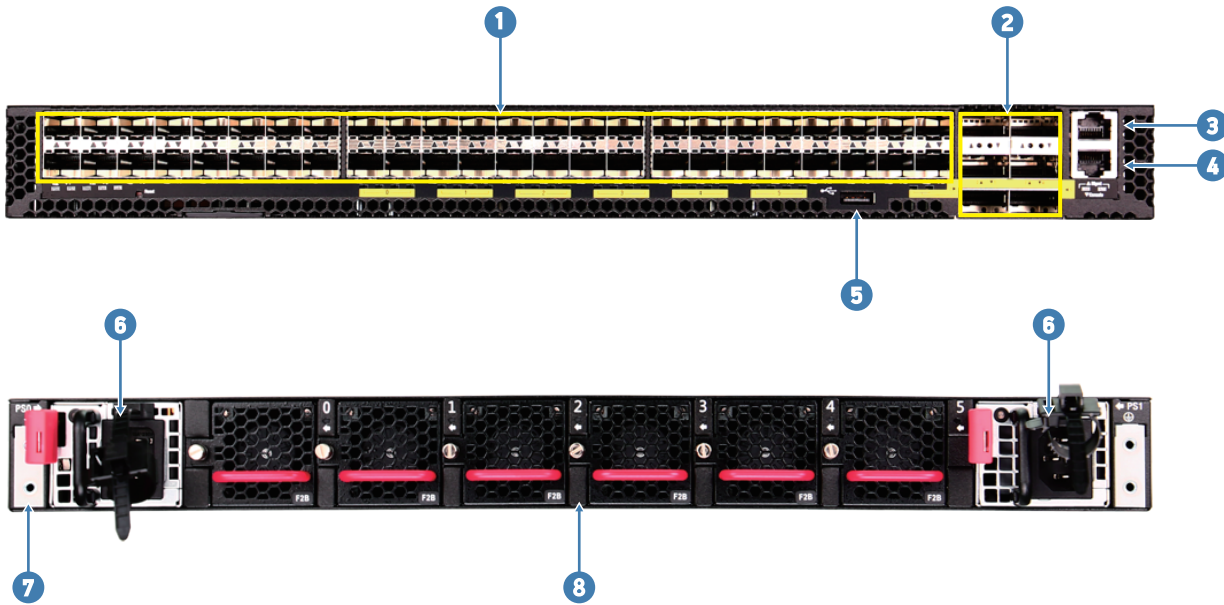
Key Features and Benefits

- High performance data center top-of-rack and carrier access/aggregation switch 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 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 PSUs.
- 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

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 BCM88375 + BCM52311 TCAM
- CPU module:
  Processor: Intel® Xeon® D-1548 processor 8 cores 2.0 GHz
  Memory: DDR4 SO-DIMM 16 GB x 2
  m.2 SSD: 128GB MLC

Performance
- Switching Capacity: 800 Gbps
- Processing Rate: 700 Mpps
- Jumbo Frame: 9 Kbytes
- 16MB on-chip Buffering
- Deep DRAM Buffering: 8 GB

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 upto 30 M 100G QSFP28 to 100 G 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.

Ordering Information

Base model: AS5916-54XKS; Intel® Xeon® D-1548 Processor, 48-Port 10G QSFP+ with 6 x 100G QSFP28 uplinks; ONIE software installer.

Model Number	Part Number	PSU	Airflow	Region (power cord)
5916-54XKS-O-AC-F-US	FP1ZZ5654429A-C	Dual AC PSUs	Port-to-Power airflow	N. America
5916-54XKS-O-AC-F-EU	FP1ZZ5654229A-C	Dual AC PSUs	Port-to-Power airflow	EU
5916-54XKS-O-AC-F-UK	FP1ZZ5654329A-C	Dual AC PSUs	Port-to-Power airflow	UK
5916-54XKS-O-AC-F-UN	FP1ZZ56540BKA-C	Dual AC PSUs	Port-to-Power airflow	C13 - C14 Power Cord
5916-54XKS-O-AC-F-JP	FP1ZZ5654533A-C	Dual AC PSUs	Port-to-Power airflow	JP
5916-54XKS-O-AC-F	FP3ZZ5654043A-C	Dual AC PSUs	Port-to-Power airflow	N/A
5916-54XKS-O-48V-F	FP1ZZ56540BAA-C	Dual 48 VDC PSUs	Port-to-Power airflow	N/A
5916-54XKS-OT-AC-F-US	FP1ZZ5654433A-C	Dual AC PSUs	Port-to-Power airflow	N. America
5916-54XKS-OT-AC-F-EU	FP1ZZ5654232A-C	Dual AC PSUs	Port-to-Power airflow	EU
5916-54XKS-OT-AC-F-UK	FP1ZZ5654332A-C	Dual AC PSUs	Port-to-Power airflow	UK
5916-54XKS-OT-AC-F-UN	FP1ZZ56540BQA-C	Dual AC PSUs	Port-to-Power airflow	C13 - C14 Power Cord
5916-54XKS-OT-AC-F-JP	FP1ZZ5654536A-C	Dual AC PSUs	Port-to-Power airflow	JP
5916-54XKS-OT-AC-F	FP1ZZ56540BPA-C	Dual AC PSUs	Port-to-Power airflow	N/A
5916-54XKS-OT-48V-F	FP1ZZ56540BIA-C	Dual 48 VDC PSUs	Port-to-Power airflow	N/A