

AGGREGATION ROUTER

AS5916-54XKS



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 front-to-back airflow. The Edgecore AGR130 switch meets the high-performance, availability, and scalability requirements of cloud data centers and communication service providers.

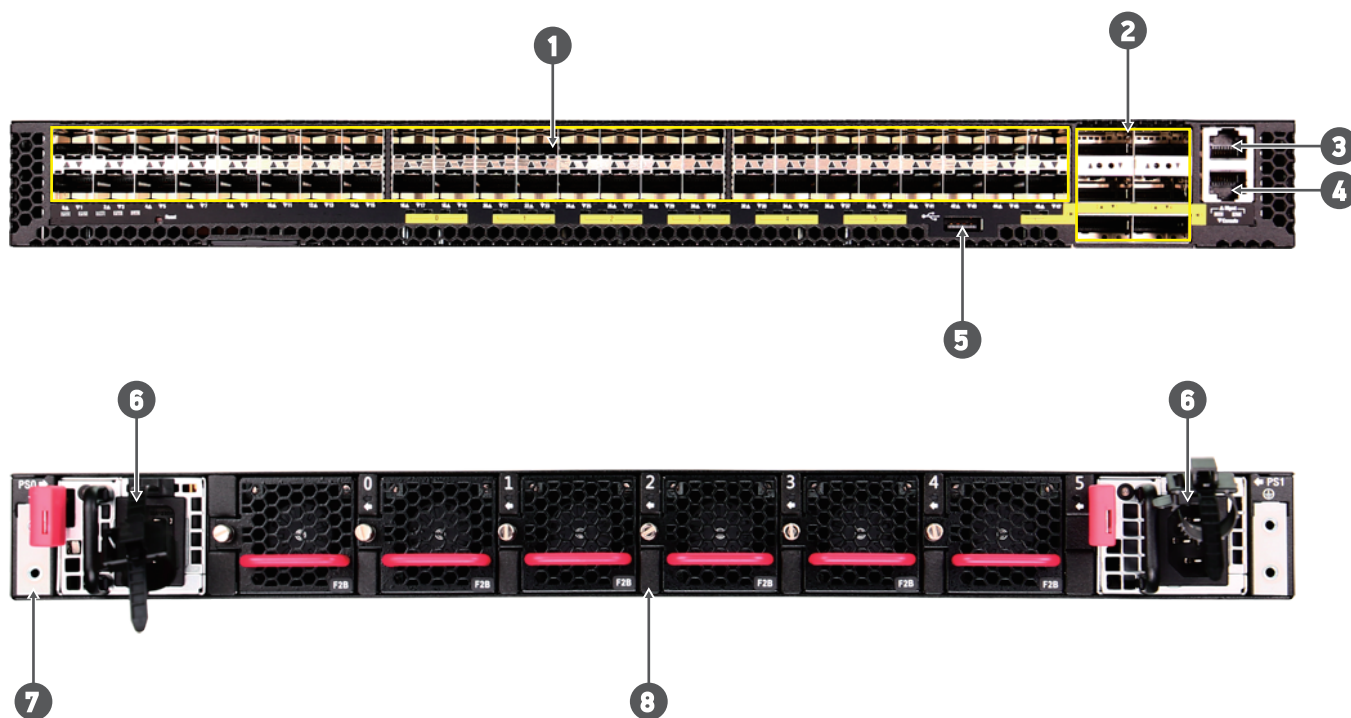
Key Features and Benefits

- 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)





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 BCM88375 Qumran-MX + BCM52311 TCAM
- CPU module:
 - Processor: Intel® Xeon® D-1548 processor 8-core 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: 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 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.

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Ordering Information

Base Model: AS5916-54XKS; Intel® Xeon® D-1548 8-Core, 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	Dual AC PSUs	Front-to-Back Airflow	N. America
5916-54XKS-O-AC-F-EU	FP1ZZ5654229A	Dual AC PSUs	Front-to-Back Airflow	EU
5916-54XKS-O-AC-F-UK	FP1ZZ5654329A	Dual AC PSUs	Front-to-Back Airflow	UK
5916-54XKS-O-AC-F-UN	FP1ZZ56540BKA	Dual AC PSUs	Front-to-Back Airflow	C13 - C14 Power Cord
5916-54XKS-O-AC-F-JP	FP1ZZ5654533A	Dual AC PSUs	Front-to-Back Airflow	JP
5916-54XKS-O-AC-F	FP3ZZ5654043A	Dual AC PSUs	Front-to-Back Airflow	N/A
5916-54XKS-O-48V-F	FP1ZZ56540BAA	Dual 48 VDC PSUs	Front-to-Back Airflow	N/A
5916-54XKS-OT-AC-F-US	FP1ZZ5654433A	Dual AC PSUs	Front-to-Back Airflow	N. America
5916-54XKS-OT-AC-F-EU	FP1ZZ5654232A	Dual AC PSUs	Front-to-Back Airflow	EU
5916-54XKS-OT-AC-F-UK	FP1ZZ5654332A	Dual AC PSUs	Front-to-Back Airflow	UK
5916-54XKS-OT-AC-F-UN	FP1ZZ56540BQA	Dual AC PSUs	Front-to-Back Airflow	C13 - C14 Power Cord
5916-54XKS-OT-AC-F-JP	FP1ZZ5654536A	Dual AC PSUs	Front-to-Back Airflow	JP
5916-54XKS-OT-AC-F	FP1ZZ56540BPA	Dual AC PSUs	Front-to-Back Airflow	N/A
5916-54XKS-OT-48V-F	FP1ZZ56540BIA	Dual 48 VDC PSUs	Front-to-Back Airflow	N/A