

10G/100G Edge Router

Bare Metal Hardware

AS5916-54XKS



The AS5916-54XKS is based on Broadcom 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 a data center, or as a carrier access/aggregation switch, and edge router.

The AS5916-54XKS hardware comes with a high-availability design, including 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 AS5916-54XKS 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)
- Compatible with Open Network Linux (ONL)

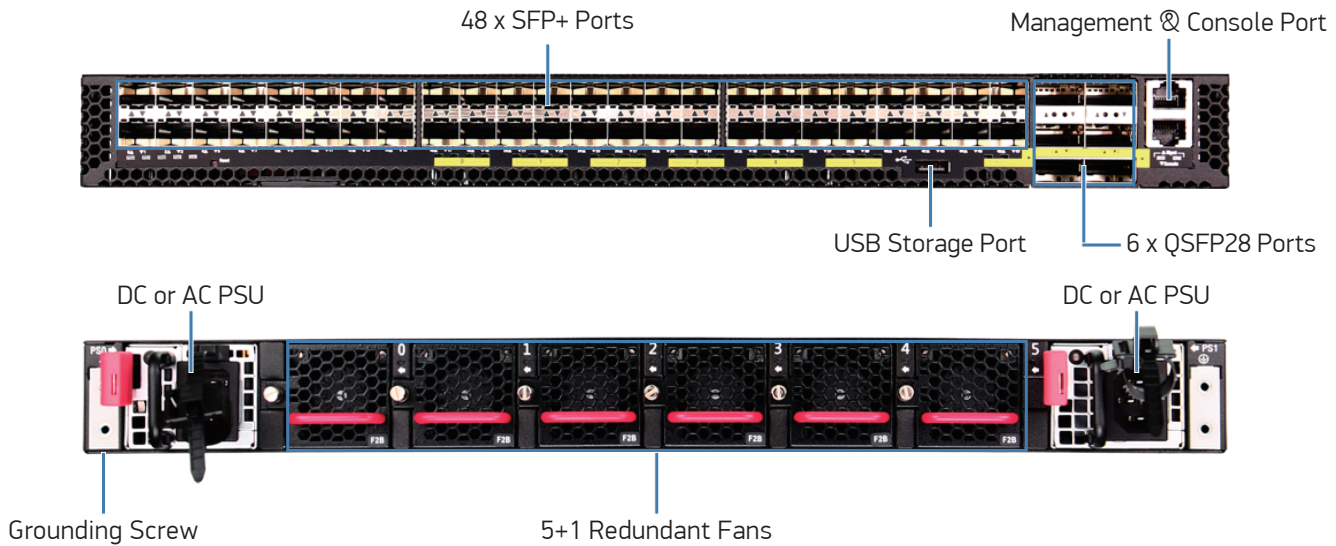


Software Supported

onie



Interfaces



Ordering Information

Base Model: AS5916-54XKS; 48-Port 10G SFP+ with 6 x 100G QSFP28 uplinks; ONIE software installer

| Model Number | CPU Module | PSU | Airflow | Region (power cord) |
|-----------------------|-------------------------------|------------------|-----------------------|----------------------|
| 5916-54XKS-O-AC-F-US | Intel® Xeon® D-1548 Processor | dual AC PSUs | port-to-power airflow | N. America |
| 5916-54XKS-O-AC-F-EU | Intel® Xeon® D-1548 Processor | dual AC PSUs | port-to-power airflow | Europe |
| 5916-54XKS-O-AC-F-UK | Intel® Xeon® D-1548 Processor | dual AC PSUs | port-to-power airflow | UK |
| 5916-54XKS-O-AC-F-UN | Intel® Xeon® D-1548 Processor | dual AC PSUs | port-to-power airflow | C13 - C14 Power Cord |
| 5916-54XKS-O-AC-F-JP | Intel® Xeon® D-1548 Processor | dual AC PSUs | port-to-power airflow | Japan |
| 5916-54XKS-O-AC-F | Intel® Xeon® D-1548 Processor | dual AC PSUs | port-to-power airflow | N/A |
| 5916-54XKS-O-48V-F | Intel® Xeon® D-1548 Processor | dual 48 VDC PSUs | port-to-power airflow | N/A |
| 5916-54XKS-OT-AC-F-US | Intel® Xeon® D-1548 Processor | dual AC PSUs | port-to-power airflow | N. America |
| 5916-54XKS-OT-AC-F-EU | Intel® Xeon® D-1548 Processor | dual AC PSUs | port-to-power airflow | Europe |
| 5916-54XKS-OT-AC-F-UK | Intel® Xeon® D-1548 Processor | dual AC PSUs | port-to-power airflow | UK |
| 5916-54XKS-OT-AC-F-UN | Intel® Xeon® D-1548 Processor | dual AC PSUs | port-to-power airflow | C13 - C14 Power Cord |
| 5916-54XKS-OT-AC-F-JP | Intel® Xeon® D-1548 Processor | dual AC PSUs | port-to-power airflow | Japan |
| 5916-54XKS-OT-AC-F | Intel® Xeon® D-1548 Processor | dual AC PSUs | port-to-power airflow | N/A |
| 5916-54XKS-OT-48V-F | Intel® Xeon® D-1548 Processor | dual 48 VDC PSUs | port-to-power airflow | N/A |

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 Modules:
 - Intel® Xeon® D-1548 processor 8 cores 2.0 GHz
 - 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): 43.84 x 50.19 x 4.4 cm (17.26 x 19.76 x 1.73 inch)
- 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)
- 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

- EMI
 - CE Mark
 - EN55032 Class A
 - EN55024
 - EN61000-3-2
 - EN61000-3-3
 - FCC Part 15 Subpart B Class A
 - VCCI Class A
- Safety
 - CB
 - UL/CUL
- 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.

© Copyright 2020 Edgecore Networks Corporation. The information contained herein is subject to change without notice. This document is for informational purposes only and does not set forth any warranty, expressed or implied, concerning any equipment, equipment feature, or service offered by Edgecore Networks Corporation. Edgecore Networks Corporation shall not be liable for technical or editorial errors or omissions contained herein.