Enterprise Switch
AS4610-54P

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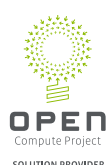
The Edgecore AS4610-54P is a high-performance Gigabit Ethernet Layer 3 switch featuring 54 ports; with 48 10/100/1000BASE-T ports, 4 x 10G SFP+ uplink ports, and 2 x 20G QSFP+ stacking ports (stacking capability subject to NOS implementations). The AS4610-54P is ideal for enterprise or campus networks deploying open network solutions, it includes redundant hot-swappable AC PSUs and port-to-power airflow, plus the 48 10/100/1000BASE-T ports fully support IEEE 802.3at and IEEE 802.3af Power-over-Ethernet (PoE). This open network switch is loaded with the Open Network Install Environment (ONIE), which supports the installation of compatible Network Operating System software, including the open source options, plus commercial NOS offerings.
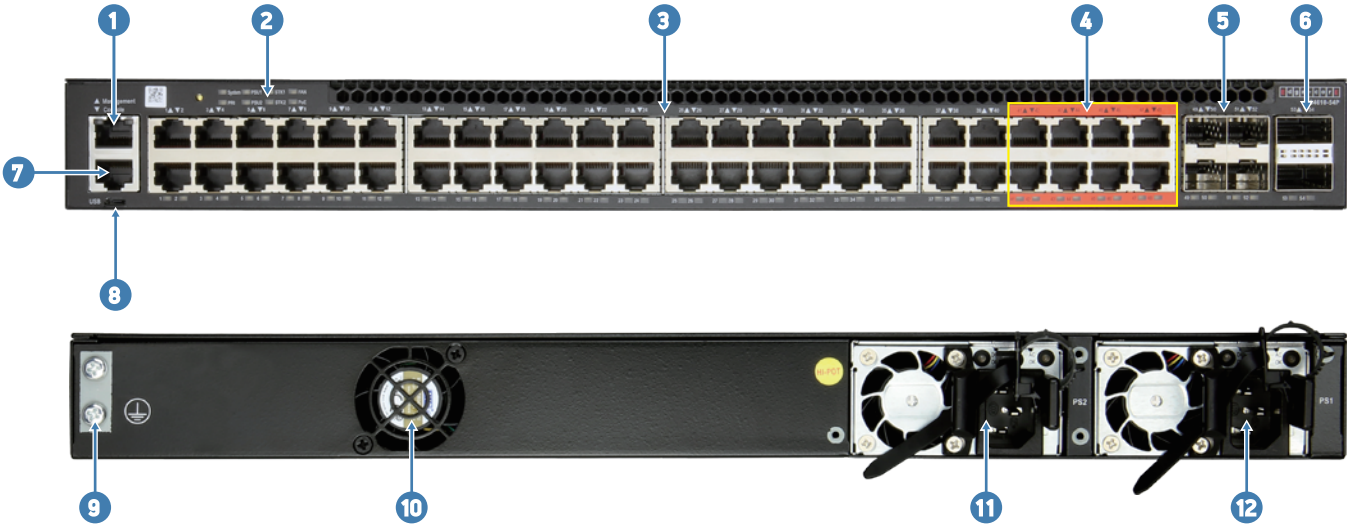
Key Features and Benefits

■ Cost-effective, open network switch for enterprise, campus and data center fabric.

■ 1 GbE connections to server and storage nodes in rack, with 10 GbE uplinks to spine network.

■ PoE models ideal for enterprise, hospitality, warehouse applications interconnecting security, camera, WiFi devices.

■ 48 x RJ-45 100/1000BASE-T PoE ports

■ 4 x SFP+ uplink ports, supporting 10 GbE (DAC, 10GBASE-SR/LR/ER/LRM) or 1 GbE (1000BASE-T/SX/LX).

■ Full line-rate L2 or L3 forwarding and switching.

■ Hot-swappable, load-sharing, redundant AC PSUs.

■ Hardware switch pre-loaded with Open Network Install Environment (ONIE) for automated loading of compatible open source and commerical NOS offerings.

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.	RJ-45 management port	7.	RJ-45 console port
2.	System LEDs	8.	USB storage port
3.	48 x 1G RJ-45 Ports	9.	Grounding point
4.	8 x 1G RJ45 with 60W PoE Ports	10.	Fixed fan
5.	4 x 10G SFP Ports	11.	PSU 2
6.	2 x QSFP+ stacking ports	12.	PSU 1

Ports

- Switch Ports:
  48 x RJ-45 100/1000BASE-T PoE ports
  4 x 10G SFP+ ports supporting 10G or 1G
  2 x 20G QSFP+ stacking ports (requires NOS to support hardware stacking feature)
- Management Ports:
  (1) port-to-power airflow type
  1 x Micro USB serial console
  1 x RJ-45 100/1000BASE-T management port
  1 x Type-A USB storage port
  (2) port-to-power airflow v1 type
  1 x RJ-45 serial console
  1 x RJ-45 100/1000BASE-T management port
  1 x Micro-USB storage port

Key Components

- Switch Silicon: Broadcom BCM56340 Helix4
- CPU: Dual-core ARM Cortex A9 1 GHz
- Memory: 2 GB DDR3 SDRAM ECC
- Flash: 8 MB SPI Flash, 32GB MLC USB

Performance

- Wire Speed Forwarding: L2 and L3
- Switching Capacity: 256 Gbps full duplex
- Forwarding Rate: 190 Mpps
- MAC Addresses: up to 96 K
- VLAN IDs: 4K
- Jumbo Frames: Up to 12 KB
- L3 Entry: IPv4/IPv6 96 k/48 k Unicast, 48 k/24 k Multicast
- Packet Buffer Size: 4 MB shared buffer pool

Supported Optics and Cables

- GE RJ-45 Ports: Cat 5/5e/6 up to 100 m
- SFP+ Ports:
  10GBASE-CR DAC; 0.5 m to 7 m
  10GBASE-SRL/SR; up to 100/300 m over OM3 MMF
  10GBASE-LR; up to 10 km over SMF
  1000BASE-SX, 1000BASE-LX, 100/1000BASE-T
- QSFP+ Port for stacking

LEDs

- GE RJ-45 SFP+ Port LEDs: Link Speed, Link Status, Activity
- 10G SFP+ Port LEDs: Link Speed, Link Status, Activity
- Ethernet Management Port LED: Link Status, Activity
- System LEDs: PRI, PSU1, PSU2, STK1, STK2, FAN, PoE

Software

- Switch is loaded with Open Network Install Environment (ONIE) software installer
- Compatible with the following NOS options: open source options, plus commercial NOS offerings.

Power

- PSUs: 2 redundant, load-sharing, hot-swappable AC
  Note: AC PSUs are redundant in terms of system and networking, but not fully redundant in terms of PoE functions and the power budget.
- Input Voltage: 100-240 VAC, 50-60 Hz, 12-6.5 A or 13-6.5 A

Physical and Environmental

- Dimensions (WxDxH): 44 x 35 x 4.4 cm (17.32 x 13.78 x 1.77") 1 RU
- Weight: 6.36 kg (14.02 lb)
- Fans: System fan and PSU fans
- Operating Temperature: 0°C to 45°C
- Storage Temperature: -40°C to 70°C
- Operating Humidity: 5% to 95% non-condensing

Regulatory

- EMI:
  CE Mark (EN55022 Class A)
  FCC Part 15 Class A
  VCCI Class A
  CCC GB9254-2008
  BSMI (CNS13438)
- Environmental:
  Temperature: IEC 68-2-14
  Shock: IEC 68-2-29
  Vibration: IEC 68-2-36, IEC 68-2-6
  Drop: ISTA 2A
- RoHS-6 Compliant
- Safety:
  UL (CSA 22.2 No 60950-1 & UL 60950-1)
  CB (IEC/EN60950-1)
  BSMI (CNS14336)
- Country of Origin: Taiwan (TAA Compliant)

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: AS4610-54P; ARM Cortex processor; 48-port BASE-T + 4-port 10G uplink with 2-port stacking port; ONIE software installer.

Model Number	Part Number	PSU	Airflow	Region (power cord)
4610-54P-O-AC-F-US v1	F0PEC4654406Z	dual AC PSUs	port-to-power airflow	N. America
4610-54P-O-AC-F-EU v1	F0PEC4654203Z	dual AC PSUs	port-to-power airflow	Europe
4610-54P-O-AC-F-UK v1	F0PEC4654303Z	dual AC PSUs	port-to-power airflow	UK
4610-54P-O-AC-F-JP v1	F0PEC4654504Z	dual AC PSUs	port-to-power airflow	JP

Model Number	Part Number	Description
4610-XXX-SVC-RTF	REWECECWA001Z	AS4610 series, Annual Hardware Service, Return-to-Factory, after warranty. 3 year warranty included already with the product, maximum 2 additional years per product. FAN and PSU are excluded.
RKIT-85-4610	F00EC4630000Z	Rack mount kit (for AS4610-54P/ AS4610-54T/ AS4610-30P/ AS4610-30T)