

# 1 GbE Data Center and Enterprise Switch Bare-Metal Hardware

## AS4630-54PE



The Edgecore AS4630-54PE is a high-performance Gigabit Ethernet Layer 3 switch featuring 54 ports; the AS4630-54PE has 48 10/100/1000BASE-T ports, 4 x 25G SFP28 uplink ports, and 2 x 100G QSFP28 stacking ports (stacking capability subject to NOS implementations); plus the 48 10/100/1000BASE-T ports fully support IEEE 802.3at and IEEE 802.3bt Power-over-Ethernet (PoE).

The AS4630-54PE is ideal as a data center top-of-rack switch or IPMI (Intelligent Platform Management Interface) switch, it includes redundant hot-swappable AC PSUs and port-to-power airflow. It is ideal for campus networking, with the AS4630-54PE able to provide up to 90 Watts (Depends on the PoE power budget) of power per port to attached devices, such as VoIP phones, wireless access points, surveillance cameras etc, fully utilizing existing Cat. 6 cable infrastructure.

## Key Features and Benefits

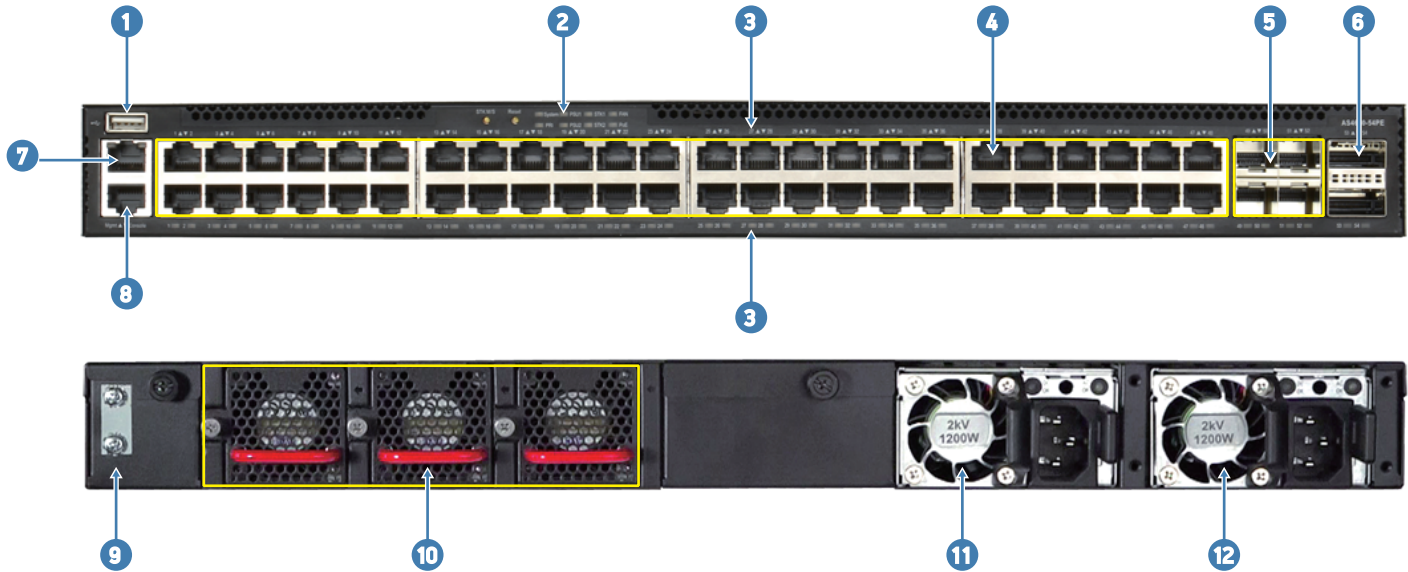
- Cost-effective, bare-metal infrastructure for data center racks.
- 1 GbE connections to server and storage nodes in rack, with 25 GbE uplinks to spine network.
- PoE models ideal for enterprise, hospitality, warehouse applications interconnecting security, camera, Wi-Fi devices.
- 48 x 10/100/1000BASE-T RJ-45 ports.
- 4 x SFP+ uplink ports, supporting 25 GbE.
- 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 commercial NOS offerings.
- Compatible with Open Network Linux (ONL), the open-source, OCP reference NOS.



## Software Supported



## Interfaces



### Description

1	USB storage port	7	Management port
2	System LEDs	8	Console port
3	Port indicators	9	Grounding point
4	48 x 1G RJ45 ports	10	Hot-swappable 2 + 1 redundant fans
5	25G SFP28 ports	11	PSU 2
6	QSFP28 Stacking ports	12	PSU 1

## Ports

- Switch Ports:
  - 48 x RJ-45 100/1000BASE-T ports
  - 4 x 25G SFP28 uplink ports
  - 2 x 100G QSFP28 stacking ports (requires NOS to support hardware stacking feature)
- Management Ports:
  - 1 x RJ-45 serial console
  - 1 x RJ-45 100/1000BASE-T management port
  - 1 x Type-A USB storage port

## Key Components

- Switch Silicon: Broadcom BCM56371 Trident III 480 Gbps
- CPU: Intel Atom/Denverton C3558 4-cores 2.2 GHz x86 processor
- DDR4: 8 GB x 2 SO-DIMM
- SPI Flash: 16 MB x 2
- m.2 SSD: 32 GB MLC

## Performance

- Switching Capacity: 696 Gbps full duplex
- Forwarding Rate: 744 Mpps
- MAC Addresses: 16K min./112K max.
- VLAN IDs: 4K
- Jumbo Frames: Up to 12,288 bytes
- Packet Buffer Size: 8 MB Integrated packet buffer memory

## LEDs

- GE RJ-45 SFP+ Port LEDs: Link Status, Activity
- SFP28 Port LEDs: Port LEDs: Link Speed, Link Status, Activity
- Ethernet Management Port LED: Link Status, Activity
- System LEDs: PRI, PSU1, PSU2, STK1, STK2, FAN, PoE

## Physical and Environmental

- Dimensions (HxWxD): 43.8 x 44.2 x 4.37 cm (17.24 x 17.40 x 1.72 in)
- Weight: 7.67 kg (16.91 lb), with two installed PSUs
- Operating Temperature: 0°C to 45°C (32°F to 113°F)
- Storage Temperature: -40°C to 70°C (-40°F to 158°F)
- Operating Humidity: 5% to 90% non-condensing

## Software

- Switch is loaded with Open Network Install Environment (ONIE) software installer
- Compatible with Open Network Linux (ONL), the open-source, OCP reference NOS.

## Power

- PSUs: 2 redundant, load-sharing, hot-swappable AC
- Input Voltage: 100 to 240 VAC at 50-60 Hz
- Power Consumption: 1800 Watts maximum  
Note: AC PSUs are redundant in terms of system and networking, but not fully redundant in terms of PoE functions and the power budget.

## Regulatory

- EMI:
  - EN55032 Class A
  - EN55024
  - EN55035
  - EN61000-3-2
  - EN61000-3-3
- FCC Part 15, Subpart B Class A
- VCCI Class A
- CCC
- BSMI 13438
- Safety
  - CB
  - UL
  - CCC
  - BSMI 14336-1
  - RoHS-2.0 Compliant

## Warranty

Please check [www.edge-core.com](http://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](http://www.edge-core.com).

## About Edgecore Networks Corporation

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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: AS4630-54PE with ONIE software Installer

Model Number	PSU	Insert CPU	Airflow	Region (power cord)
AS4630-54PE-O-AC-F-US	dual AC PSUs	Intel Atom processor C3558	port-to-power airflow	N. America
AS4630-54PE-O-AC-F-EU	dual AC PSUs	Intel Atom processor C3558	port-to-power airflow	Europe
AS4630-54PE-O-AC-F-UK	dual AC PSUs	Intel Atom processor C3558	port-to-power airflow	UK
AS4630-54PE-O-AC-F-JP	dual AC PSUs	Intel Atom processor C3558	port-to-power airflow	Japan