

# ENTERPRISE SWITCH

## AS4630-54NPE



The Edgecore EPS203 is a high-performance multi-Gigabit Ethernet L2/L3 switch featuring 54 ports. The EPS203 has 36 x 100M/1000M/2.5G ports, 12 x 1G/2.5G/5G/10GBASE-T ports, 4 x 25G uplink ports, and 2 x 100G QSFP28 stacking ports (stacking capability subject to NOS implementation); plus all RJ-45 Ethernet ports can support up to 90 W Power-over-Ethernet (PoE).

The EPS203 is ideal for campus networking, with its redundant hot-swappable AC PSUs and front-to-back airflow. The switch has the ability to provide up to 90 Watts (depending on the PoE power budget) of power per port for all 48 RJ-45 ports, including the 10G ports, powering attached devices such as VoIP phones, wireless access points, and surveillance cameras etc, which fully utilizes the existing Cat. 6 cable infrastructure. This open network switch is loaded with the Open Network Install Environment (ONIE), which supports the installation of compatible network operating system (NOS) software, including open source NOS options and commercial NOS offerings.

## Key Features and Benefits

- Flagship high-end, powerful, open network access multi-G PoE switch that is ideal for high-density, high-power, future-proof, enterprise multi-G PoE deployments.
- 36 x 1G/2.5G and 12 x 1G/2.5G/5G/10GBASE-T connections to VoIP phones, Wi-Fi APs, IP cameras, with 25 GbE uplinks to the campus aggregation network.
- PoE PSE capability with 36 x 1G/2.5G IEEE 802.3 af/at and bt Type 3/Type 4 90W and 12 x 1G/2.5G/5G/10G IEEE 802.3 at/af and bt Type 3/Type 4 90W connections to VoIP phones, Wi-Fi APs, and IP cameras with 25 GbE uplinks to campus aggregation network.
- A PoE switch that is ideal for enterprise, hospitality, warehouse, and retail applications, interconnecting security, cameras, Wi-Fi APs, and IP camera devices that are ideal for future immersive AR/VR/360 VR video applications.
- 36 x 100M/1000M/2.5G ports, 12 x 1G/2.5G/5G/10GBASE-T ports.
- 4 x 25G SFP28 uplink ports supporting 10GbE/25GbE.
- 2 x 100G QSFP28 stacking ports (subject to NOS implementation), also can be used as data transmission ports.
- Supports TPM 1.2 with LPC interface.
- Options to enable UEFI Secure Boot.
- Full line-rate L2/L3 forwarding and switching.
- Hot-swappable, load-sharing, redundant AC PSUs.
- Hot-swappable 2 + 1 redundant fan trays.
- Hardware switch pre-loaded with Open Network Install Environment (ONIE) for automated loading of compatible open source NOS and commercial NOS offerings.



Freedom  
of choice



Greater  
control



Rapid  
innovation

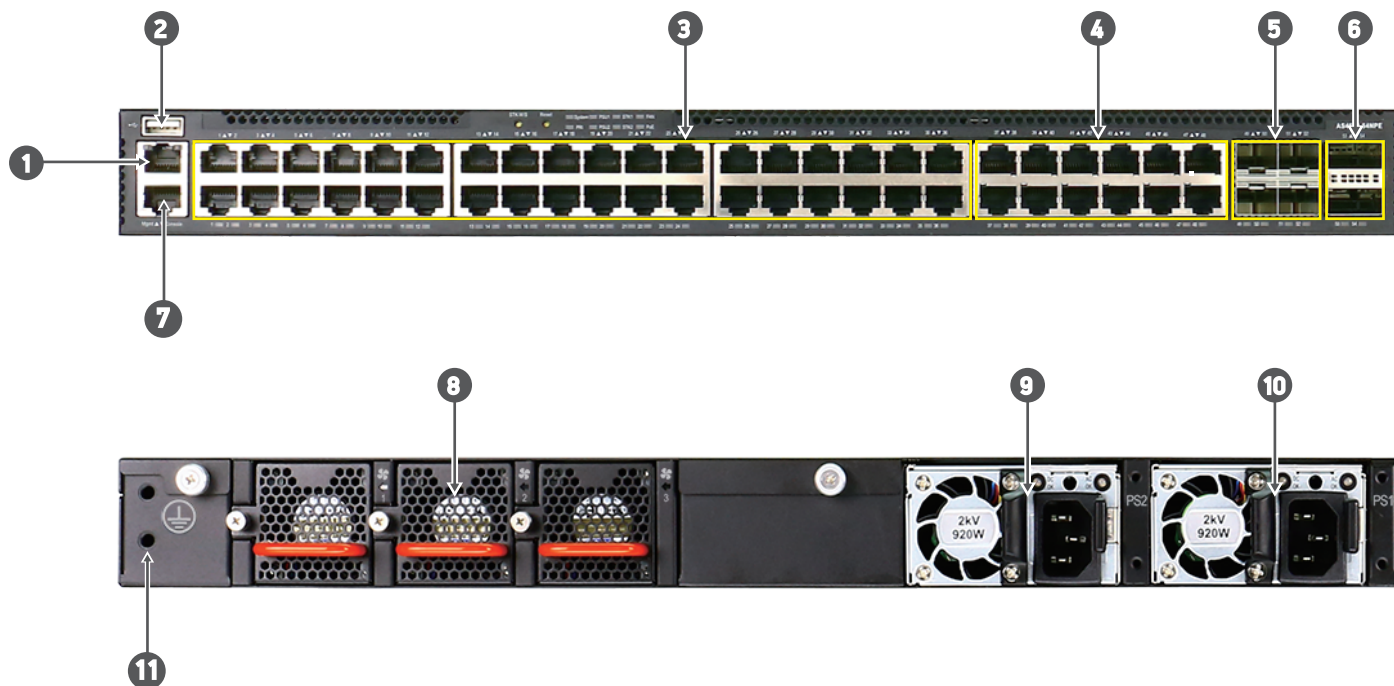


Reduced  
CAPEX and OPEX

## Free Software Included



## Interfaces



### Description

- |                                    |                                            |
|------------------------------------|--------------------------------------------|
| 1. RJ-45 management port           | 7. RJ-45 console port                      |
| 2. USB storage port                | 8. Hot-swappable 2 + 1 redundant fan trays |
| 3. 36 x 100M/1000M/2.5G ports      | 9. PSU 2: 1200 Watts                       |
| 4. 12 x 1G/2.5G/5G/10GBASE-T ports | 10. PSU 1: 1200 Watts                      |
| 5. 4 x 25G SFP28 uplink ports      | 11. Grounding point                        |
| 6. 2 x 100G QSFP28 stacking ports  |                                            |

## Ports

- Switch Ports:
  - 36 x 100M/1000M/2.5G ports
  - 12 x 1G/2.5G/5G/10GBASE-T ports
  - 4 x 25G SFP28 uplink ports
  - 2 x 100G QSFP28 stacking ports (requires NOS to support hardware stacking feature), also can be used as data transmission ports
- Management Ports:
  - 1 x RJ-45 serial console
  - 1 x RJ-45 100/1000BASE-T management port
  - 1 x Type-A USB storage port
- Supported Transceivers and Cables:
  - 10GBASE-RJ45
  - 10G-DAC/AOC cable
  - 25GBASE-SR/LR
  - 25G-DAC/AOC cable
  - 40GBASE-SR4/LR4
  - 40G-DAC/AOC cable
  - 100GBASE-SR4/CWDM4/LR4
  - 100G-DAC/AOC cable
  - Note: More optics and detailed cabling information can be found at [www.edge-core.com](http://www.edge-core.com).

## Key Components

- Switch Silicon: Broadcom BCM56370 Trident III 560 Gbps
- CPU: Intel® Atom® C3558 4-Core 2.2 GHz x86 processor
- DDR4: 8 GB x 2 SO-DIMM
- Flash: 16 MB x 2
- m.2 SSD: 32 GB MLC
- TPM 1.2 with LPC Interface: ST33ZP24AR28PVSP, ST

## Performance

- Switching Capacity: 510 Gbps
- Forwarding Rate: 863.1 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
- LAG (802.3ad): 1024 LAG Groups, with a total 256 members, with a maximum of 8 members per group
- VLAN Translation: 16K Ingress/16K Egress
- VRF: 4K
- L3 Hosts:
  - IPv4: 16K minimum/68K maximum
  - IPv6: 8K minimum/40K maximum
- L3 Multicast Groups 8K IPMC Groups
- ECMP: 1024 groups with a total of 4096 members, maximum 1024 members per group

## LEDs

- GE RJ-45 Port LEDs: Link Speed, Link Status, Activity
- 25G SFP28 Port LEDs: Link Speed, Link Status, Activity
- 100G QSFP28 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 (WxDxH): 43.8 x 47.4 x 4.4 cm (17.24 x 18.66 x 1.73 in) 1 RU
- Weight: 8.5 kg (18.74 lb)
- Fans: Hot-swappable 2 + 1 redundant fans
- Operating Temperature: 0°C to 45°C
- Storage Temperature: -40°C to 70°C
- Operating Humidity: 5% to 90% non-condensing

## 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: 2pcs 1+1 redundant, load-sharing, hot-swappable 1200 W AC (80 PLUS Platinum compliant)
- Front-to-back airflow only
- Input Voltage/Current Input Voltage/Current at 47–63Hz:
  - Low-line: 15A for 90VAC–136VAC (1000 Watts)
  - High-line: 8.A for 180VAC–264VAC (1200 Watts)
- Maximum Power Consumption
  - Low-line: 2000 Watts
  - High-line: 2400 Watts
- PoE Budget (with 30W Guard band)
  - Low-line: 700 W for 1 PSU/1700 W for 2 PSU
  - High-line: 900 W for 1 PSU/2100 W for 2 PSU

## Electromagnetic Compatibility

- CE Mark
  - EN55032 Class A
  - EN 61000-3-2
  - EN61000-3-3
  - FCC Title 47, Part 15, Subpart B Class A
  - VCCI Class A
  - CCC
  - BSMI
- Environmental:
  - Temperature: IEC 68-2-14
  - Vibration: IEC 68-2-6, IEC 68-2-64, IEC 68-2-29
  - Shock: IEC 68-2-27
- Safety:
  - UL
  - CB
  - CCC
  - BSMI
  - WEEE Standards: The switches complied with the following WEEE standards: Waste Electrical and Electronic Equipment (WEEE Directive 2002/96/EC)
  - Country of Origin: Taiwan (TAA 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

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](http://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: AS4630-54NPE; Intel® Atom® Processor 4-Core; 36-port 1G/2.5G per-port 90W + 12-port 1G/2.5G/5G/10G per-port 90W + 4-port 10G25G SFP28 uplink + 2x100G QSFP28 stacking ports; ONIE Installer.**

Model Number	Part Number	PSU	Airflow	Region (Power Cord)
AS4630-54NPE-O-AC-F-US	F0PZZ4654412A	Dual AC PSUs	front-to-back airflow	N. America
AS4630-54NPE-O-AC-F-UK	F0PZZ4654310A	Dual AC PSUs	front-to-back airflow	UK
AS4630-54NPE-O-AC-F	F0PZZ4654047A	Dual AC PSUs	front-to-back airflow	
AS4630-54NPE-O-AC-F-JP	F0PZZ4654510A	Dual AC PSUs	front-to-back airflow	JP
AS4630-54NPE-O-AC-F-EU	F0PZZ4654210A	Dual AC PSUs	front-to-back airflow	EU
AS4630-54NPE-O-AC-F-CN	F0PZZ4654704A	Dual AC PSUs	front-to-back airflow	CN
AS4630-54NPE-O-AC-F-TW	F0PZZ4654T04A	Dual AC PSUs	front-to-back airflow	TW

RKIT-100G-SLIDE	F0OZZ7632001A	Tool-less mounting rail slide kit (For EPS200 series/AS4630-54TE/54PE/54NPE, DCS203/AS7326-56X, DCS204/AS7726-32X, DCS500/AS7816-64X, DCS501/AS7712-32X, DCS510/AS9716-32D, AS7716-32X).		
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PSU Model Number	Part Number	Product Description
YPEB1200AM-1A03P10	F0TZZ4654011A	1200 W AC Power Supply (3Y), front-to-rear airflow, 1 Year Warranty (for EPS202/AS4630-54PE, EPS203/AS4630-54NPE). Inlet Connector: IEC 60320 C14.

Fan Model Number	Part Number	Product Description
FAN-1U-1x1M-F	F0TZZ4654009A	Fan Module, front-to-rear airflow, 1 Year Warranty (for EPS201/AS4630-54TE, EPS202/AS4630-54PE, EPS203/AS4630-54NPE).

Sliding Rail Model Number	Part Number	Product Description
RKIT-100G-SLIDE	F0OZZ7632001A	Tool-less mounting rail slide kit (For EPS200 series/AS4630-54TE/54PE/54NPE, DCS203/AS7326-56X, DCS204/AS7726-32X, DCS500/AS7816-64X, DCS501/AS7712-32X, DCS510/AS9716-32D, AS7716-32X).

Warranty Ordering Information		
4630-54NPE-SVC-RTF	REWEC4630002Z	AS4630-54NPE, Additional one year hardware warranty, return to factory. Maximum of 5 years hardware warranty allowed per product, 3 years hardware warranty already included with product, a maximum of two additional years of hardware warranty can be purchased with this SKU. Fan and PSU modules are excluded.