

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 2x100G 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 port-to-power 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

- High-end and powerful open network access switch for enterprise access environments.
- 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 models ideal for enterprise, hospitality, warehouse, retail applications interconnecting security, Wi-Fi AP, IP camera devices.
- 36x100M/1000M/2.5G ports, 12 x 1G/2.5G/5G/10GBASE-T ports.
- 4 x 25G SFP28 uplink ports supporting 10GbE/25GbE.
- 2 x100G QSFP28 stacking ports (subject to NOS implementation).
- Support 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.
- 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

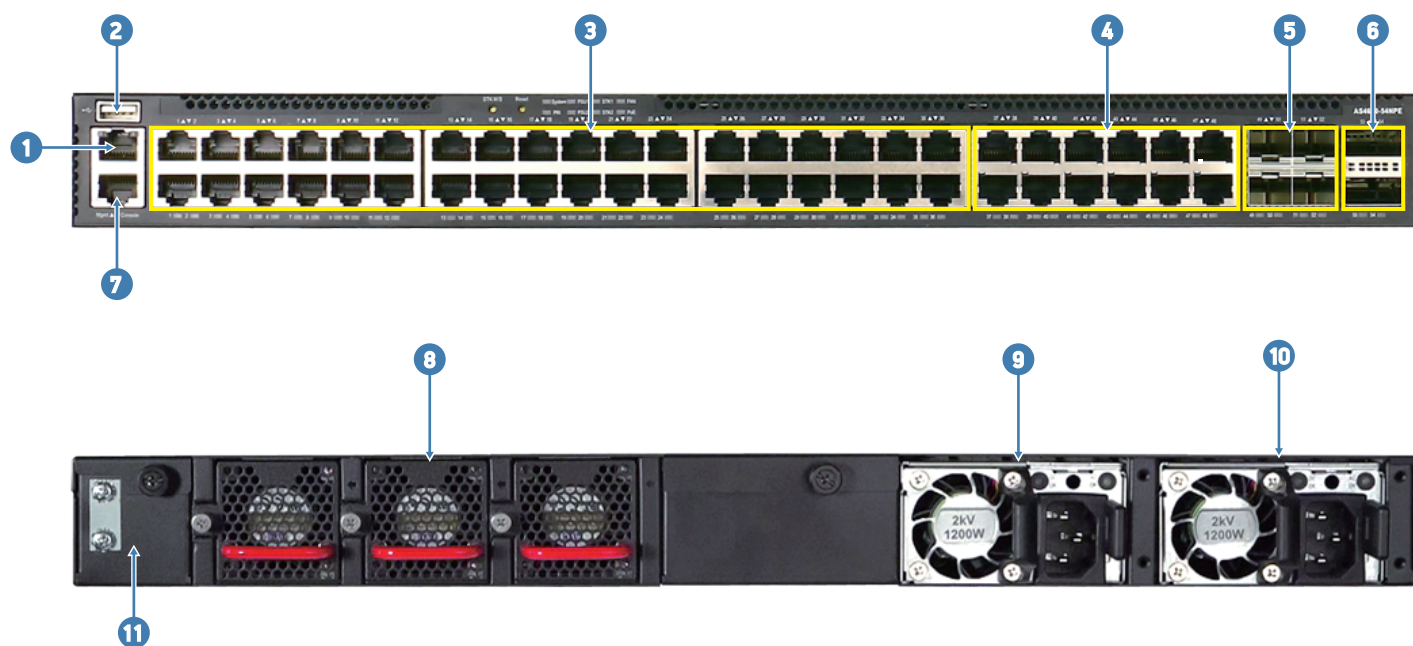


Reduced
CAPEX and OPEX

Free Software Included

onle

Interfaces



Description

- | | |
|------------------------------------|---------------------------------------|
| 1. RJ-45 management port | 7. RJ-45 console port |
| 2. USB storage port | 8. Hot-swappable 2 + 1 redundant fans |
| 3. 36 x 100M/1000M/2.5G ports | 9. PSU 2 |
| 4. 12 x 1G/2.5G/5G/10GBASE-T ports | 10. PSU 1 |
| 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)
 - 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.

Key Components

- Switch Silicon: Broadcom BCM56370 Trident III 560 Gbps
- CPU: Intel Atom/Denverton C3558 4-cores 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

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: 2 redundant, load-sharing, hot-swappable AC
 - Input Voltage: 100 to 240 VAC at 50-60 Hz
 - Power Consumption:
 - 2000 W max. (100–120 VAC PSUs)
 - 2400 W max. (200–240 VAC PSUs)
- Note: AC PSUs are redundant in terms of system and networking, but not fully redundant in terms of PoE functions and the power budget.

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 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: AS4630-54NPE; Intel® Atom® Denverton Processor; 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	port-to-power airflow	N. America
AS4630-54NPE-O-AC-F-UK	F0PZZ4654310A	Dual AC PSUs	port-to-power airflow	UK
AS4630-54NPE-O-AC-F	F0PZZ4654047A	Dual AC PSUs	port-to-power airflow	
AS4630-54NPE-O-AC-F-JP	F0PZZ4654510A	Dual AC PSUs	port-to-power airflow	JP
AS4630-54NPE-O-AC-F-EU	F0PZZ4654210A	Dual AC PSUs	port-to-power airflow	EU
AS4630-54NPE-O-AC-F-CN	F0PZZ4654704A	Dual AC PSUs	port-to-power airflow	CN
AS4630-54NPE-O-AC-F-TW	F0PZZ4654T04A	Dual AC PSUs	port-to-power airflow	TW