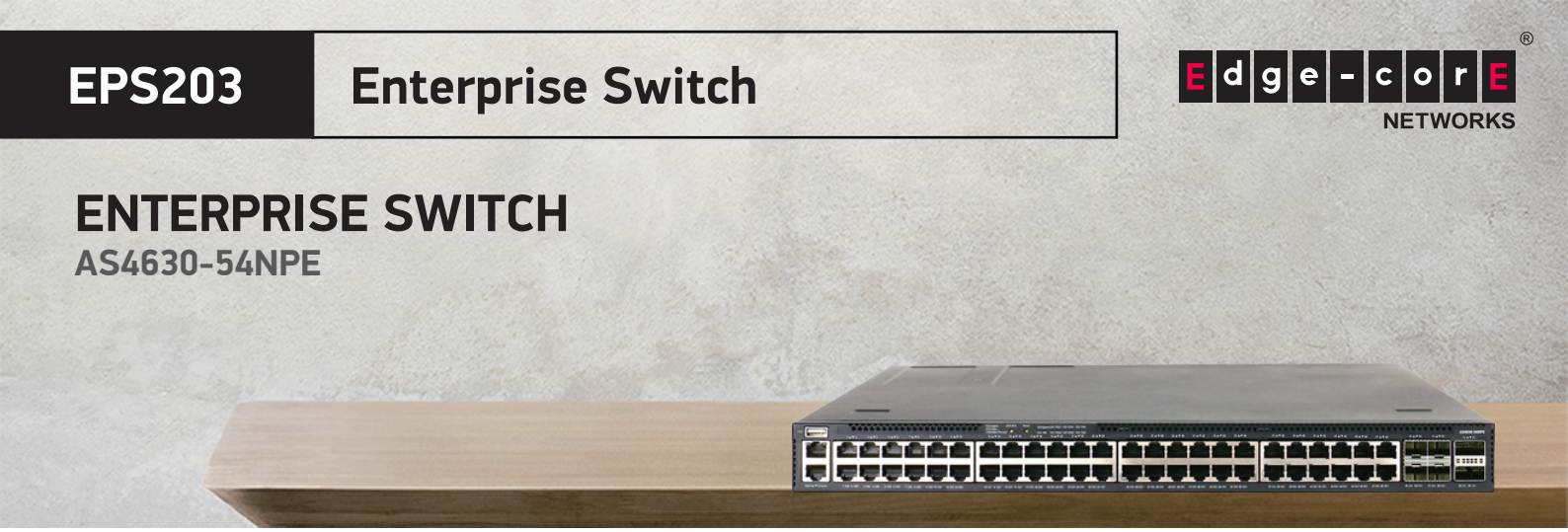
EPS203 Enterprise Switch

Edge-corE NETWORKS

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 commerical NOS offerings.

OPEN PLATINUM

OPEN Compute Project SOLUTION PROVIDER

Freedom of choice

Greater control

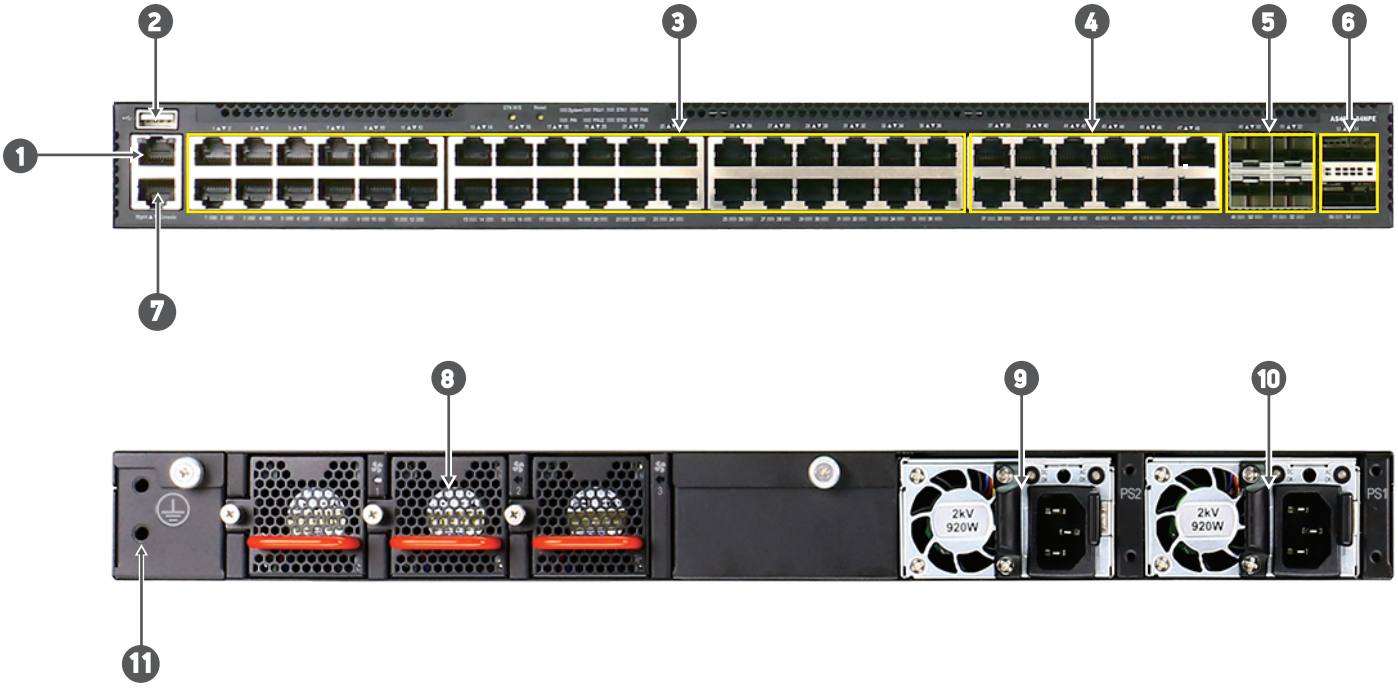
Rapid innovation

Reduced CAPEX and OPEX

Free Software Included

onie

Interfaces



Description			
1.	RJ-45 management port	7.	RJ-45 console port
2.	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.

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 (1020 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 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: 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 software 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).		
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).		