

**Edge-core**  
NETWORKS

**EPS122**  
Enterprise Switch



# Edge-core NETWORKS EPS122 Enterprise Switch Owner's Manual

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## Edge-core NETWORKS EPS122 Enterprise Switch



## Specifications

- **Product Name:** EPS122 Enterprise Switch
- **Model Number:** AS4625-54P

- **Ports:**

- 48 x 10/100/1000BASE-T ports supporting IEEE 802.3at and IEEE 802.3bt PoE up to 30W
- 6 x 1G/10G SFP+ uplink ports
- 8 x 10/100/1000BASE-T ports supporting IEEE 802.3at and IEEE 802.3bt Type 4 up to 90W

- **Switching Capacity:** 108 Gbps

- **Forwarding Rate:** 61.6 Mpps

- **MAC Addresses:** 64K min./112K max.

- **VLAN IDs:** 4K

- **Jumbo Frames:** Up to 12,288 bytes

- **Power Supply:** 2 x 1200W AC redundant PSUs

- **Software:** Open Network Install Environment (ONIE) installer

## Product Usage Instructions

### Installation

- Ensure the switch is powered off before installation.
- Connect power supply units and Ethernet cables to the appropriate ports.
- Power on the switch and wait for the system LEDs to indicate readiness.

### Configuration

- Access the management interface using the management port or console port.
- Configure VLANs, PoE settings, and other network parameters as needed.

### Maintenance

- Regularly check system LEDs for any abnormalities.
- Keep the switch firmware up to date for optimal performance and security.

## FAQ

### **Q: What is the maximum PoE budget of the EPS122 Enterprise Switch?**

**A:** The PoE budget varies based on power supply redundancy and input voltage. For detailed information, refer to the specifications section of the user manual.

### **Q: How many VLAN IDs does the switch support?**

**A:** The switch supports up to 4K VLAN IDs for network segmentation and management.

## INTRODUCTION

- The Edgecore EPS122 is a cost-effective, high-performance Gigabit Ethernet L2 PoE switch featuring 54 ports; 48 x 10/100/1000BASE-T ports and 6 x 1G/10G SFP+ uplink ports.

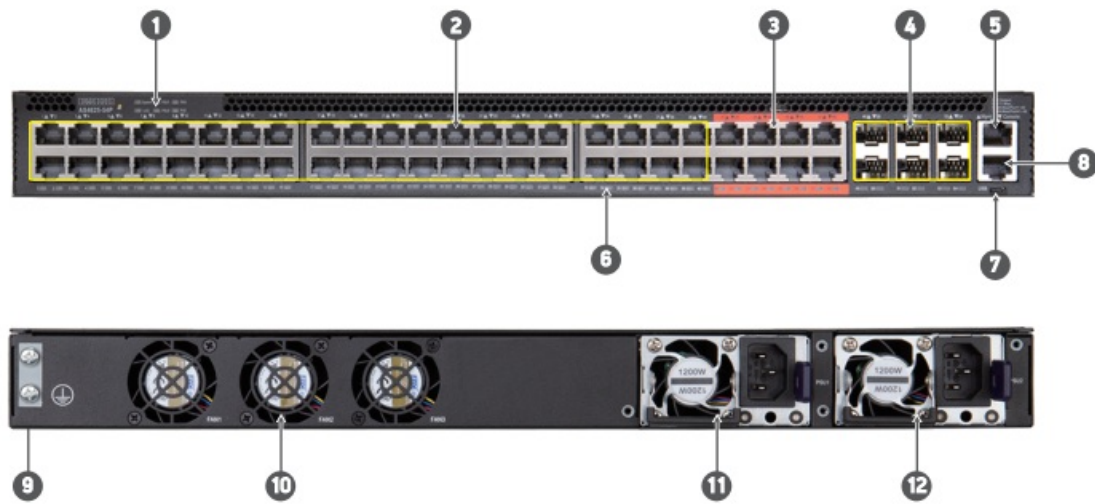
- Ports 1 to 40 (10/100/1000BASE-T) fully support IEEE 802.3at and IEEE 802.3bt Power-over-Ethernet (PoE) up to 30 W, and ports 41 to 48 (10/100/1000BASE-T) fully support IEEE 802.3at and IEEE 802.3bt Type 4 up to 90 W.
- The EPS122 is ideal as an access PoE switch for enterprise or campus access networks. The switch includes redundant, hot-swappable AC PSUs and fixed 2+1 redundant fans with port-to-power airflow, and an ability to provide 8 ports with up to 90 Watts of power per port (depending on the PoE power budget) to attached devices, such as VoIP phones, wireless access points, surveillance cameras etc, fully utilizing the existing Cat. 5/5e/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 the open source options, plus commercial NOS offerings.

## **Key Features and Benefits**

- Easy-to-use entry-level open networking switch with PoE capability, ideal for enterprise and campus access networking.
- Fully utilizing the existing Cat. 5/5e/6 cable infrastructure (90 W requires Cat6A Cabling).
- Full line-rate L2/L3 forwarding and switching.
- PoE capability can power up enterprise, hospital, warehouse, and retail environments by connecting to security devices, Wi-Fi access points, IP phones, and IP cameras.
- 48 x 10/100/1000BASE-T RJ-45 ports.
- 6 x SFP+ uplink ports supporting 1GE/10GE.
- Ports 1 to 40 up to 30 W per port.
- Ports 41 to 48 up to 90 W per port.
- Intel® Atom® COMe module with C3508 4-Core 1.6GHz x86 processor.
- Support TPM 2.0 with SPI Interface.
- Options to enable UEFI Secure Boot.
- Full line-rate L2/L3 forwarding and switching.
- Hot-swappable, load-sharing, redundant AC PSUs.
- Fixed 2+1 redundant fans.
- Hardware switch pre-loaded with Open Network Install Environment (ONIE) for automated loading of compatible open source options and commercial NOS offerings

## **Free Software Included**

### **Interfaces**



## Description

1. System LEDs
2. 40 x 10/100/1000BASE-T RJ-45 ports with 30 W per port
3. 8 x 10/100/1000BASE-T RJ-45 ports with 90 W per port
4. 6 x 1G/10G SFP+ ports
5. Management port
6. Port indicators
7. Micro-USB storage port
8. Console port
9. Grounding point
10. Fixed 2 + 1 redundant fans (FAN1, FAN2, FAN3)
11. **PSU 1:** 1200 W
12. **PSU 2:** 1200 W

## Ports

### • Switch Ports:

- 48 x 10/100/1000BASE-T RJ-45 ports
- 6 x 1G/10G SFP+ uplink ports

### • Management Ports:

- 1 x RJ-45 serial console
- 1 x RJ-45 100/1000BASE-T management port
- 1 x Micro-USB storage port

### • Supported Transceivers and Cables:

- 1G SX to 1G ZX
- 1G BIDI up to 40 KM
- 10G SR to 10G ZR
- 10G BIDI up to 10KM
- 10G tunable laser DWDM up to 80 KM

- **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 BCM56277 Trident III 130 Gbps
- **CPU:** Intel® Atom® COMe module with C3508 4-Core 1.6 GHz x86 processor
- **DDR4:** 8 GB x 1 SO-DIMM
- **SPI Flash:** 16 Mb x 2
- **m.2 SSD:** 32 GB MLC

## Performance

- **Switching Capacity:** 108 Gbps
- **Forwarding Rate:** 61.6 Mpps
- **MAC Addresses:** 64K min./112K max.
- **VLAN IDs:** 4K
- **VLAN Translation:** 4K Ingress/2K Egress
- **Jumbo Frames:** Up to 12,288 bytes
- **Packet Buffer Size:** 4 MB Integrated packet buffer memory
- **LAG (802.3ad):** 128 LAG Groups, with a total of 256 members, with a maximum of 8 members per group
- **VRF:** 1K
- **L3 Hosts:** IPv4 32K or IPv6: 16K
- **L3 Multicast** Groups 4K IPMC Groups
- **ECMP:** 256 groups with a total of 1024 members, a maximum of 64 members per group

## LEDs

- **GE RJ-45 SFP+ Port LEDs:** Link Status, Activity
- **SFP+ Port LEDs: Port LEDs:** Link Speed, Link Status, Activity
- **Ethernet Management Port LED:** Link Status, Activity
- **System LEDs:** System, PSU1, PSU2, FAN, PoE, LOC

## Physical and Environmental

- **Dimensions (WxDxH):** 44 x 35.03 x 4.4cm (17.32 x 13.79 x 1.73 in)
- **Weight:** 54P F2B: 6.74 kg unit with 2 PSU/packaged 8.44 kg
- **Operating Temperature:** 0°C to 40°C (32°F to 104°F) at 6000 ft
- **Storage Temperature:** -40°C to 70°C (-40°F to 158°F)
- **Operating Humidity:** 5% to 90% non-condensing

## Software

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

## Power

- **PSUs:** 2 pcs 1+1 redundant, load-sharing, hot-swappable 1200 W AC (80Plus Platinum compliant)
- **Input Voltage / Current:**
  - **Low-line:** 18.5 A for 90 VAC~136 VAC
  - **High-line:** 22.0 2A for 180 VAC~264 VAC
- **Maximum Power Consumption**
  - **Low-line:** 2000 Watts
  - **High-line:** 2400 Watts
- **PoE Budget (with 30 W Guard Band)**
  - **Low-line:** 850 W for 1 PSU/1850 W for 2 PSU
  - **High-line:** 1050 W for 1 PSU/2250 W for 2 PSU
- **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

- 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


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  - Technology Corporation, the leading network ODM company. The Edgecore data center switches are developed and manufactured by Accton.
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Ordering Information

Base Model: AS4625-54P; Intel® Atom® processor C3508 4-Core COMe module Type 7; 40 x 1G BASE-T with 30 W PoE + 8 x1G BASE-T with 90 W PoE downlink + 6 x 10G SFP+ uplink; ONIE Software Installer.				
Model Number	Part Number	PSU	Airflow	Region (Power Cord)
AS4625-54P-O-AC-F	F0PEC4654029A	Dual AC PSUs	Port-to-Power Airflow	
AS4625-54P-O-AC-F-EU	F0PEC4654205A	Dual AC PSUs	Port-to-Power Airflow	EU
AS4625-54P-O-AC-F-UK	F0PEC4654305A	Dual AC PSUs	Port-to-Power Airflow	UK
AS4625-54P-O-AC-F-US	F0PEC4654411A	Dual AC PSUs	Port-to-Power Airflow	N. America
AS4625-54P-O-AC-F-JP	F0PEC4654507A	Dual AC PSUs	Port-to-Power Airflow	JP
AS4625-54P-O-AC-F-TW	F0PEC4654T01A	Dual AC PSUs	Port-to-Power Airflow	TW
PSU Model Number	Part Number	Product Description		
UP1K21R-1085G	F0TEC4654012A-C	1200W PSU for 4625-54P		
Sliding Rail Model Number	Part Number	Product Description		
RKIT-1G-SLIDE	F0OEC4654002A	Tool-less mounting rail slide kit for 4625 series (4625-54T and 4625-54P)		
Warranty Ordering Information				
4625-54P-SVC-RTF	REWEC4625002Z	AS4625-54P, 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.		

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

Documents / Resources



[Edge-core NETWORKS EPS122 Enterprise Switch \[pdf\] Owner's Manual](#)  
EPS122, EPS122 Enterprise Switch, Enterprise Switch, Switch

## References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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