EPS122

Edge-corE NETWORKS

ENTERPRISE AS4625-54P

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 able to 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

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.

Key Components

- Switch Silicon: Broadcom BCM56277 Trident III 130 Gpbs
- 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 Gpbs
- 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 256 members, with a maximum of 8 members per groups
- VRF: 1K
- L3 Hosts: IPv4 32K or IPv6: 16K
- L3 Multicast Groups 4K IPMC Groups
- ECMP: 256 groups with a total of 1024 members, maximum 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 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 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: 18.5A for 90VAC~136VAC
  High-line: 22.02A for 180VAC~264VAC
- Maximum Power Consumption
  Low-line: 2000 Watts
  High-line: 2400 Watts
- PoE Budget
  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 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.