

ENTERPRISE SWITCH

AS4630-54TE



The Edgecore EPS201 is a high-performance Gigabit Ethernet L2/L3 switch featuring 54 ports; 48 x 10/100/1000BASE-T ports, 4x10G/25G SFP28 uplink ports, and 2 x 100G QSFP28 stacking ports (stacking capability subject to NOS implementations).

The EPS201 is ideal as a management switch in data center networking, enterprise access networking, or campus access networking. The switch includes redundant, hot-swappable AC PSUs and 2+1 redundant fan trays with front-to-back airflow or power-to-port airflow. 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

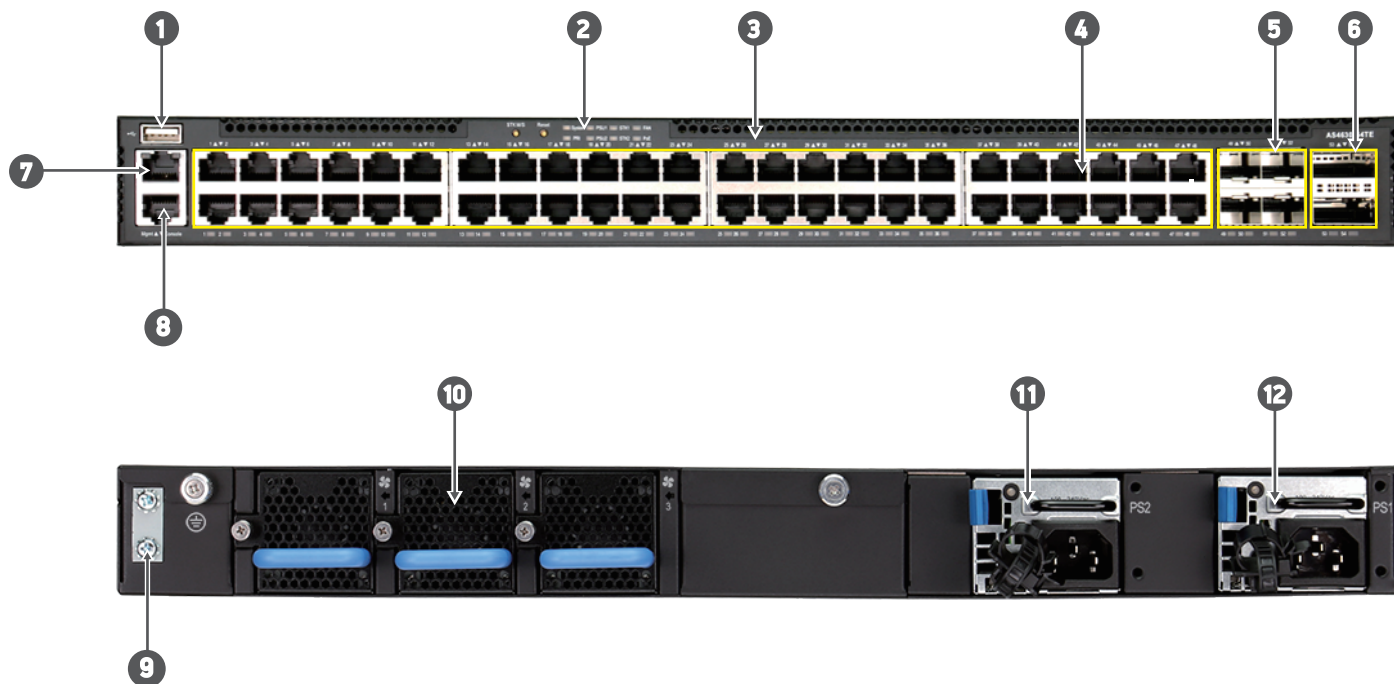
- High-end open networking switch for management switch in hyper-scale data center racks, or for large enterprise access networks.
- 1GbE connections to server node and storage node management ports in rack, with 25GbE uplinks or 100G uplinks to management network aggregation switches.
- 48 x 10/100/1000BASE-T RJ-45 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 and commercial NOS offerings.



Free Software Included



Interfaces



Description

- | | |
|---------------------------------------|---|
| 1. USB storage port | 7. Management port |
| 2. System LEDs | 8. Console port |
| 3. Port indicators | 9. Grounding point |
| 4. 48 x 10/100/1000BASE-T RJ-45 ports | 10. Hot-swappable 2 + 1 redundant fan trays |
| 5. 4 x 10G/25G SFP28 ports | 11. PSU 2: 150 W |
| 6. 2 x 100G QSFP28 stacking ports | 12. PSU 1: 150 W |

Ports

- Switch Ports:
 - 48 x 10/100/1000BASE-T RJ-45 ports
 - 4 x 10G/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
 - Note: When a DAC cable is used in a topology, a link issue may be encountered if the CR4 Auto-Negotiation/Link Training does not turn on. This can be solved by manually enabling CR4 Auto Negotiation/Link Training.
- 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-RJ-45
 - 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 BCM56371 Trident III 480 Gbps
- CPU: Intel® Atom® C3558 4-Core 2.2 GHz x86 processor
- DDR4: 8 GB x 2 SO-DIMM
- SPI Flash: 16 MB x 2
- m.2 SSD: 32 GB MLC
- TPM 1.2 with LPC Interface: ST33ZP24AR28PVSP, ST

Performance

- Switching Capacity: 348 Gbps (696 Gbps)
- Forwarding Rate: 744 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 SFP+ Port LEDs: Link Status, Activity
- SFP28 Port LEDs: Port LEDs: Link Speed, Link Status, Activity
- Ethernet Management Port LED: Link Status, Activity
- System LEDs: PRI, PSU1, PSU2, STK1, STK2, FAN

Physical and Environmental

- Dimensions (WxDxH): 43.8 x 47.4 x 4.4 cm (17.24 x 18.66 x 1.73 in)
- Weight: 6.98 kg (15.39 lb), with two installed PSUs
- 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 95% 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 Silver compliant)
- Front-to-back air flow and back-to-front airflow
- Input Voltage/Current at 47~63Hz:
 - Low-line: 3 A for 90VAC~136VAC
 - High-line: 1.5 A for 180VAC~264VAC
- Maximum Power Consumption: 150 Watts

Regulatory

- EMC
 - EN 55032 Class A
 - EN 61000-3-2 Class A
 - EN 61000-3-3
 - FCC Class A
 - VCCI Class A
 - BSMI Class A, CNS 15936
 - IEC 61000-4-2/3/4/5/6/8/11
 - EN 55024
 - EN 55035
- Safety
 - UL (UL 62368-1 @ CSA C22.2 No. 62368-1)
 - CB (IEC/EN 62368-1)
 - BSMI, CNS 15598-1
- Taiwan RoHS CNS 15663

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: AS4630-54TE; Intel® Atom® processor C3558 4-Core; 48 x 1G RJ45 + 4 x 25G SFP28 + 2 x100G QSFP28 with ONIE software installer.

Model Number	Part Number	PSU	Airflow	Region (Power Cord)
AS4630-54TE-O-AC-F-US	F0PZZ4654410A	Dual AC PSUs	front-to-back airflow	N. America
AS4630-54TE-O-AC-B-US	F0PZZ4654411A	Dual AC PSUs	back-to-front airflow	N. America
AS4630-54TE-O-AC-F-EU	F0PZZ4654208A	Dual AC PSUs	front-to-back airflow	EU
AS4630-54TE-O-AC-B-EU	F0PZZ4654209A	Dual AC PSUs	back-to-front airflow	EU
AS4630-54TE-O-AC-F-UK	F0PZZ4654308A	Dual AC PSUs	front-to-back airflow	UK
AS4630-54TE-O-AC-B-UK	F0PZZ4654309A	Dual AC PSUs	back-to-front airflow	UK
AS4630-54TE-O-AC-F-JP	F0PZZ4654508A	Dual AC PSUs	front-to-back airflow	JP
AS4630-54TE-O-AC-B-JP	F0PZZ4654509A	Dual AC PSUs	back-to-front airflow	JP
YM-1151D A03R	F0TEC4654000A	150 W AC Power Supply FRU	front-to-back airflow	
YM-1151D A02R	F0TEC4654000Z	150 W AC Power Supply FRU	back-to-front airflow	
FAN-1U-1x1M-F	F0TZZ4654009A	Fan Module	front-to-back airflow	
FAN-1U-1x1M-B	F0TZZ4654010A	Fan Module	back-to-front airflow	