SSE-X3648S and SSE-X3648SR:

Layer 2/3 10G Ethernet SuperSwitch (Stand-alone)

Advanced SDN Switch offering 10/40 Gigabit Ethernet Performance in a Top-of-Rack 1U Enclosure

The SSE-X3648S Layer 2/3 Ethernet Switch leads the way as Supermicro enters the Open Networking arena. Open Networking provides customers with the ability to maximize the efficient and flexible use of valuable data center resources while providing an ideal platform for managing and maintaining those resources in a manner in tune with the needs of the organization.



Offering forty-eight 10-Gigabit Ethernet ports, the SSE-X3648S allows connectivity to 10GEservers, routers, and backbones. It also offers six ports operating at 40Gbps for access to high-speed backbone networks or storage servers. The 1U form factor gives users the ability to optimize deployment in standalone or top-of-rack environments. A rail kit facilitates rack-mounting installations. A reverse-airflow model, the SSE-X3648SR, is available for use in large data centers with alternating hot and cold equipment aisles. These switches are ideal for deployment in Data Center, Cloud and Enterprise environments with the capability of handling access for the most demanding applications.

Pre-loaded with the Open Network Installation Environment (ONIE), the SSE-X3648S/R is ready for your networking operating system of choice. Supermicro recommends the use of Cumulus Linux on the SSE-X3648S. Cumulus Linux is an OS for open networking incorporating a true Linux distribution with extensive networking features plus hardware acceleration of routing and switching functions. By using many of the same tools employed for servers, Cumulus Linux enables affordable scalability with clear CapEx savings and even greater OpEx savings; it unleashes rapid innovation via custom, open source or commercial Linux tools and applications. Contact Cumulus Networks for more details and ordering information.

Supermicro SuperSwitch Solution Benefit Highlights

- 1U ToR 10/40G Ethernet Switch
- Bare metal – ONIE installed
- Cumulus Linux Ready
- Data Center Friendly
  - Dual Redundant Hot-swappable power supplies
  - Regular and Reverse Air-Flow Models
- Powerful Broadcom Trident II Switch Chip
  - 1440 Gbps Switching Capacity
  - Non-blocking
- Versatile Intel Rangeley Processor
  - 4G DRAM
  - 16G SSD

Specifications

Ports
- 48x Ten-Gigabit Ethernet ports – SFP+
- 6x Forty-Gigabit Ethernet ports – QSFP+
- RJ-45 (for console cable)
- RJ-45 1G Ethernet Management Port
- USB

Switching
- Switching Capacity - 1440 Gbps
- Broadcom Trident II Switch Chip
- Wire-speed Layer 3 Routing
- 1:1 Non-blocking connectivity

Processing
- Intel Rangeley CPU
- 4G DRAM
- 16G SSD
- ONIE
- Cumulus Linux Ready

Power
- Redundant, hot-pluggable, 460W power supplies
- AC Input: 100-127/200-240 V, 50/60 Hz
- Power Consumption: 305 Watts

Physical/Environmental
- Weight: Net weight: 10.13kg (22.29 lb with 2 PSUs)
- Regular and Reverse Airflow Models
- Size (W x D x H):
- 433.8 x 550 x 44 mm (17.07 x 21.6 x 1.73 inches)
- Temperature: Operating 0°C to 40 °C (32°F to 104°F)
- Humidity: Operating: 5% to 95% (non-condensing)

General
- Bare metal
- 1U form factor for flexible installation
- Mounting Rails (included)



Cumulus® Linux® Ready