SSE-C3632S and SSE-C3632SR:

Layer 2/3 40G/100G Ethernet SuperSwitch

Advanced SDN Switch offering 40Gbps/100Gbps Ethernet Performance in a Compact 1U Enclosure

The SSE-C3632S Layer 2/3 Ethernet Switch is the latest entry from Supermicro in 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 thirty-two 40Gbps/100Gbps Ethernet ports, SSE-C3632S switch enables robust layer-3 IP fabric for flexible layer-2 overlay in Ethernet fabric architecture. For modern scale-out, leaf-and-spine data center network deployments, SSE-C3632S is positioned as the high-speed spine layer to provide scalable bi-sectional fabric bandwidth for leaf layer such as SSE-X3648S switch. Depending on deployment connectivity, physical Ethernet QSFP28 ports in SSE-C3632S can be configured for either 40Gbps or 100Gbps port, thus allow flexible physical connectivity option between spine layer and leaf layer in the data center Ethernet fabric. Compact 1U form factor gives users the ability to optimize deployment in standalone or top-of-rack environments. A rail kit facilitates rack-mounting installations. Reverse-airflow model, the SSE-C3632SR, 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 Install Environment (ONIE), the SSE-C3632S/R is ready for your networking operating system of choice. Supermicro recommends the use of Cumulus Linux on the SSE-C3632S. 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** 40Gbps/100Gbps **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 Tomahawk Switch Chip**
  - 3.2Tbps **Switching Capacity**
  - **Non-blocking**
- **Versatile Intel Rangeley Processor**
  - **4Gbyte DRAM**
  - **8Gbyte SSD**

Specifications

Ports
- 32 x 40Gbps Ethernet QSFP28 ports
- 32 x 100Gbps Ethernet QSFP28 ports
- 1 x 10Gbps Ethernet SFP+ ports
- RJ-45 Gigabit Ethernet management port
- RJ-45 serial console
- Type A USB 2.0 port

Data Fowarding
- Full Duplex 3.2Tbps Switching Capacity
- Broadcom Tomahawk Switch Chip
- Non-blocking, wire-speed Layer 3 Routing
- NVGRE/VXLAN overlay support

Control Plane
- Intel Rangeley CPU
- 4Gbyte DRAM
- 8Gbyte SSD
- Cumulus Linux Ready

Power
- Redundant hot-pluggable power supplies
- AC Input: 100-127/200-240 V, 50/60 Hz
- 800W@ 12V/65 A
- Power Consumption: < 650 Watts

Physical/Environmental
- Weight: Net weight: 10.18kg (with 2 PSUs)
- Regular and Reverse Airflow Models
- Size (W x D x H): 433.8 x 520 x 44 mm (17.07 x 20.47 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

MKT-0001-04/2016 Rev 1.0