The Super Micro Computer (SMC) SSE-G3748 series is an Out of Band (OOB) management switch with 48 1G RJ45 ports and 6 25G SFP28 ports in a fixed configuration. The SSE-G3748 enables the aggregation of high density 1RU rack servers, provide Cost-Effective network infrastructure solutions in Data center and Enterprise network. The SMC SSE-G3748 is an extremely compact 1RU form factor that increases the network radix for high density switching.

With feature rich and well established Supermicro OS support on SSE-G3748 switch provides greater flexibility to applications. Supermicro provides user friendly enhancements to the OS that suits to the various data center and Enterprise applications.

SSE-G3748 offers user friendly options to choose from including normal and reverse air-flow models along with AC & DC Power supply options. From install point of view, this product can support both front side and rear side ear-mount, as well as rail kit facilitates rack-mounting installations.

### Supermicro SSE-G3748 Switch Benefit & Advantages

<table>
<thead>
<tr>
<th>Target Use Cases</th>
<th>Key Switch Specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Center/Enterprise OOB management switch applications</td>
<td>Switch with embedded CPU solution</td>
</tr>
<tr>
<td></td>
<td>Configurations: 48x1GbE+6*25GbE</td>
</tr>
<tr>
<td></td>
<td>Capacity: 396 Gbps</td>
</tr>
<tr>
<td></td>
<td>Interfaces Speeds: 1, 10, 25 GbE</td>
</tr>
<tr>
<td></td>
<td>Forwarding Rate: Unicast full wire speed at 64B packets. Multicast upto 510MPPS</td>
</tr>
<tr>
<td></td>
<td>Form Factor: 1 RU</td>
</tr>
<tr>
<td></td>
<td>Operating System: SMIS OS (Supermicro OS)</td>
</tr>
</tbody>
</table>

### Physical Ports

- 48 x 1G RJ45 Ports
- 6 x 25G SFP28 Ports
- 1 x RJ45 Serial Console
- 1 x RJ45 100/1000BASE-T Management
- 1 x USB Type A Storage

### Hardware Specifications

### Onboard CPU Engine

- Embedded ARM CPU
- 4GB DDR4 DRAM with ECC
- 256Mb NOR Flash
- 32GB Emmc
### Data Forwarding
- 396Gbps aggregated switching capacity
- Non-Blocking, wire-speed

### Power
- Hot-pluggable power supply
- Redundant power supply
- AC Input Voltage:
  - 100-127 / 200-240VAC, 50/60Hz
- DC Input Voltage: -48~60VDC

### Physical and Environmental
- 1RU, Mountable in 19” racks by front and rear ear-mount or rail kit
- Dimensions: (WxDxH) 445 x 356 x 43.5mm
- Weight: (Switch Unit) 8kg
- Front-to-Rear and Rear-to-Front airflow versions available
- Hot Swappable 1+1 redundant Fan Modules
- Temperature: Operating 0C to 45C
- Humidity: Operating: 5% to 95%

### SMIS OS (Supermicro OS) Features

#### Layers 2
- VLAN (4K VLANs)
- VLAN Trucking
- MAC Aging
- LLDP
- LACP
- GVRP
- 802.1w Rapid Spanning Tree
- 802.1s Multiple Spanning Tree Protocol
- 4096 VLANs
- MLAG
- Jumbo Frames
- IGMP v1/v2/v3 snooping
- Storm Control

#### Layers 3
- Static Routing
- RIPv2
- OSPF
- BGP
- VRRP

#### Management and Monitoring
- SNMP MIBs
- Syslog
- Mirroring
- TACACS+

#### GoS
- 8 priority queues per port
- Strict priority queueing
- 802.1p based classification
- DSCP based classification and remarking
- Egress shaping / Weighted round robin (WRR)

#### ACL
- IP ACL permit/deny
- MAC ACLs
- Rate limiting

#### Network Management
- RS-232 Serial Console Port & GUI
- USB Port
- SNMP v1, v2, v3
- Telnet and SSHv2
- Syslog
- Industry Standard CLI & GUI
- System Logging
- Environment monitoring

#### Utilities
- NTP
- ZTP

### Safety and Compliance

#### Safety
**EU:**
- EN 60950-1
- IEC 60950-1
- EN 62368-1
- IEC 62368-1

**North America:**
- UL 60950-1
- CAN/CSA-C22.2 No. 60950
- UL 62368-1
- CAN/CSA-C22.2 No. 62368-1

**Aus/Nz (ACMA):**
- AS/NZS 60950-1
- AS/NZS 62368-1
Taiwan (BSMI):
• CNS15598-1

Korean (KCC):
• KC 62368-1

**Electromagnetic Compatibility**
EU:
• CISPR 32
• EN 55032
• BS EN 55032
• CISPR 35
• EN 55035
• BS EN 55035
• EN6100-3-2
• BS EN 6100-3-2
• EN6100-3-3
• BS EN 6100-3-3
• EN 300 386

Japan (VCCI)
• VCCI CISPR 32-1

Aus/Nz (ACMA)
• AS/NZS CISPR 32

Taiwan (BSMI)
• CNS 15936

Korean (KCC)
• KN32 Class A
• KN35

**Environmental**
EU (RoHS)
EU (REACH)
EU (WEEE)
Taiwan (RoHS)
China (RoHS)

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**Optics & Cables Supported**

<table>
<thead>
<tr>
<th>Cable Model</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFP+ Cable</td>
<td>CBL-0347L</td>
<td>39.37&quot; (100cm) 10GbE SFP+ TO SFP+, Twinax copper cable</td>
</tr>
<tr>
<td>SFP+ Cable</td>
<td>CBL-0456L</td>
<td>78.74&quot; (200cm) 10GbE SFP+ TO SFP+, Twinax copper cable</td>
</tr>
<tr>
<td>SFP+ Cable</td>
<td>CBL-00348L</td>
<td>118.11&quot; (300cm) 10GbE SFP+ TO SFP+, Twinax copper cable</td>
</tr>
<tr>
<td>SFP+ Cable</td>
<td>CBL-0349L</td>
<td>196.85&quot; (500cm) 10GbE SFP+ TO SFP+, Twinax copper cable</td>
</tr>
<tr>
<td>SFP+ Transceiver</td>
<td>AOC-E10GFSFSPR</td>
<td>SFP+ Transceiver for use with fiber cable connections</td>
</tr>
<tr>
<td>SFP+ Transceiver</td>
<td>TRX-10GSFP-RJ45</td>
<td>SFP+ Transceiver for RJ45 cable connection</td>
</tr>
<tr>
<td>SFP28 Copper Cable</td>
<td>CBL-NTWK-0944-SS28C05M</td>
<td>ETHERNET, SFP28,25GbE, PASSIVE,30 AWG, 0.5M, Molex</td>
</tr>
<tr>
<td>SFP28 Copper Cable</td>
<td>CBL-NTWK-0944-SS28C10M</td>
<td>ETHERNET, SFP28,25GbE, PASSIVE, 30 AWG, 1M, Molex</td>
</tr>
<tr>
<td>SFP28 Copper Cable</td>
<td>CBL-NTWK-0944-SS28C20M</td>
<td>ETHERNET, SFP28,25GbE, PASSIVE,30 AWG, 2M, Molex</td>
</tr>
<tr>
<td>SFP28 Copper Cable</td>
<td>CBL-NTWK-0944-SS28C30M</td>
<td>ETHERNET, SFP28,25GbE, PASSIVE,30 AWG, 3M, Molex</td>
</tr>
<tr>
<td>SFP28 Copper Cable</td>
<td>CBL-NTWK-0944-SS28C40M</td>
<td>ETHERNET, SFP28,25GbE, PASSIVE,26 AWG, 5M, Molex</td>
</tr>
<tr>
<td>QSFP28 100G to SFP28 4x25G splitter</td>
<td>CBL-NTWK-0988-Q28M5</td>
<td>ETHERNET, 100GbE/QSFP28 to 4x 25GbE/SFP28, PASSIVE,30AWG, 5M, Molex</td>
</tr>
</tbody>
</table>

*more to follow*