SSE-G3748-SMIS

SSE-G3748D-SMIS

SSE-G3748R-SMIS

SSE-G3748DR-SMIS

Supermicro SSE-G3748 1G Management Switch

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

Target Use Cases

Data Center/Enterprise OOB management switch applications

Key Advantages
- Power Efficient
- Cost competitive
- Support both sides rack installation
- Support both ear mount and rail kit installation
- Support both AC, DC PSU options.
- User friendly Web GUI setup option.

Key Switch Specs
- Switch with embedded CPU solution
- Configurations: 48x1GbE+6*25GbE
- Capacity: 396 Gbps
- Interfaces Speeds: 1, 10, 25 GbE
- Forwarding Rate: Unicast full wire speed at 64B packets. Multicast upto 510MPPS
- Form Factor: 1 RU
- Operating System: SMIS OS (Supermicro OS)

Hardware Specifications

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

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+

QoS
- 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

<u>Electromagnetic Compatibility</u>
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

North America
• 47CFR Part 15(CFR 47) Class A
• ICES003 issue7 Class A

Japan (VCCI)
• VCCI CISPR 32-1

Aus/Nz (ACMA)
• AS/NZS CISPR 32

Taiwan (BSMI)
• CNS 15936

Korean (KCC)
• KN32 Class A
• KN35

<u>Environmental</u>
EU (RoHS)
EU (REACH)
EU (WEEE)
Taiwan (RoHS)
China (RoHS)

Optics & Cables Supported

Cable Model	Part Number	Description
SFP+ Cable	CBL-0347L	39.37" (100cm) 10GbE SFP+ TO SFP+, Twinax copper cable
SFP+ Cable	CBL-0456L	78.74" (200cm) 10GbE SFP+ TO SFP+, Twinax copper cable
SFP+ Cable	CBL-00348L	118.11" (300cm) 10GbE SFP+ TO SFP+, Twinax copper cable
SFP+ Cable	CBL-0349L	196.85" (500cm) 10GbE SFP+ TO SFP+, Twinax copper cable
SFP+ Transceiver	AOC-E10GSFPSR	SFP+ Transceiver for use with fiber cable connections
SFP+ Transceiver	TRX-10GSFP-RJ45	SFP+ Transceiver for RJ45 cable connection
SFP28 Copper Cable	CBL-NTWK-0944-SS28C05M	ETHERNET, SFP28,25GbE, PASSIVE,30 AWG, 0.5M, Molex
SFP28 Copper Cable	CBL-NTWK-0944-SS28C10M	ETHERNET, SFP28,25GbE, PASSIVE, 30 AWG, 1M, Molex
SFP28 Copper Cable	CBL-NTWK-0944-SS28C20M	ETHERNET, SFP28,25GbE, PASSIVE,30 AWG, 2M, Molex
SFP28 Copper Cable	CBL-NTWK-0944-SS28C30M	ETHERNET, SFP28,25GbE, PASSIVE,30 AWG, 3M, Molex
SFP28 Copper Cable	CBL-NTWK-0944-SS28C50M	ETHERNET, SFP28,25GbE, PASSIVE,26 AWG, 5M, Molex
SFP28 Transceiver Module	AOM-SFP28-25GbE-SR-1-MLN	SFP28 Transceiver module 25G, 850nm, MMF, LC
QSFP28 100G to SFP28 4x25G splitter	CBL-NTWK-0988-Q28M5	ETHERNET, 100GbE/QSFP28 to 4x 25GbE/SFP28, PASSIVE,30AWG, 5M, Molex

*more to follow