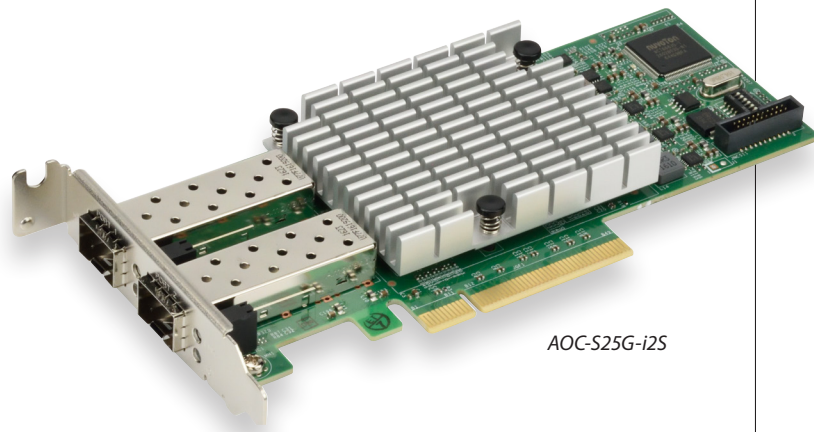


The Supermicro AOC-S25G-i2S is a robust 25GbE solution implemented with the Intel® XXV710 chipset. It is fully compatible with existing 10GbE networking infrastructures but doubles the available bandwidth. The 25GbE bandwidth enables rapid networking deployment in an agile data center environment. Supermicro® Asset Management and thermal detection give the extra layer of controller health management and peace of mind. For customers who require faster and more reliable networking demands, the AOC-S25G-i2S is an excellent choice to enhance network connectivity in data centers and enterprise environments.

Key Features

- **Dual SFP28 Connectors**
- **Low-Profile, Short Length Standard Form Factor**
- **PCI-E 3.0 x8 Interface**
- **Intel® XXV710 25GbE controller**
- **Asset Management Features with thermal sensor**
- **NC-SI for IPMI support**
- **VXLAN and NVGRE**
- **Network Virtualization Offloads**
- **Ethernet Flow Director**
- **RoHS compliant 6/6**



AOC-S25G-i2S

Specifications

General

- Intel® XXV710 25GbE controller
- Half-length low-profile standard form factor
- PCI-E 3.0 x8 interface
- Dual SFP28 connectors
- Intel® PROSet Utility for Windows Device Manager

I/O Features

- Intel® Flow Director
- MSI-X support
- Multiple queues: 1,536 Tx and Rx queues per port
- Tx/Rx IP, SCTP, TCP, and UDP checksum offloading (IPv4, IPv6) capabilities

Virtualization Features

- Next-Generation VMDq with up to 256 VMDq VMs supported
- SR-IOV with up to 128 virtual ports
- Virtual Machine Load Balancing (VMLB)
- Advanced Packet Filtering
- VLAN support for up to 4096 VLAN tags
- VXLAN and NVGRE support

Storage Interface Features

- Preboot eXecution Environment (PXE) support
- iSCSI remote boot

Management Features

- Asset Management features with thermal sensor
- NC-SI for IPMI Support

Advanced Software Features

- Teaming support
- IEEE 802.3ad (link aggregation control protocol)
- IEEE 802.1Q VLANs
- IEEE 802.3 2005 flow control support
- IEEE 802.1p
- TCP segmentation/large send offload
- Interrupt moderation

OS Support

- Windows Server 2008 R2 x64
- Windows Server 2012
- Windows Server 2012 R2
- Windows Server 2016
- Linux: RHEL 6.9
- Linux: RHEL 7.3
- Linux: SLES 11 SP4
- Linux: SLES 12 SP1
- Linux Stable Kernel version 2.6/4.x
- VMware vSphere 5.1
- VMware vSphere 5.5
- VMware vSphere 2015 (ESXi 6.0)
- VMware vSphere 2016 (ESXi 6.5)
- Solaris
- FreeBSD 10.3/11
- UEFI 2.1/2.3/2.4

Power Consumption

- 7.2W

Operating Conditions

- Operating temperature: 0°C to 55°C (32°F to 131°F)
- Storage temperature: -40°C to 70°C (-40°F to 158°F)
- Storage humidity: 90% non-condensing relative humidity at 35°C

Physical Dimensions

- Card PCB dimensions: 15.49cm (6.1") x 6.86cm (2.7")
- Height of end brackets: standard – 12cm (4.725in), low-profile – 7.94cm (3.13in)

Weight

- 127.69g (0.28lb)

Operating Conditions

- Motherboards with minimum PCI-E 3.0 x8 expansion slot
- Server Systems with low-profile or full-height PCI-E 3.0 x8 expansion slot
- NC-SI feature is only supported by Supermicro® motherboards with corresponding NC-SI connectors

Compliance/Environmental

- RoHS Compliant 6/6, Pb Free

Please note that these products are sold only as part of integrated solutions with Supermicro server systems.

Similar Products

Product Part Number	Form Factor	Speed	PCI-E	Connector Type	Total Ports	Chipset
AOC-STG-i4S	Standard Low Profile	10GbE	PCI-E 3.0 x8	SFP+	4	Intel® X710
AOC-STG-b4S	Standard Low Profile	10GbE	PCI-E 3.0 x8	SFP+	4	Broadcom BCM57840S
AOC-STGN-i1S	Standard Low Profile	10GbE	PCI-E 2.0 x8	SFP+	1	Intel® 82599EN
AOC-STGN-i2S	Standard Low Profile	10GbE	PCI-E 2.0 x8	SFP+	2	Intel® 82599ES
AOC-STG-i2T	Standard Low Profile	10GbE	PCI-E 2.1 x8	RJ45	2	Intel® X540
AOC-STG-i4T	Standard Low Profile	10GbE	PCI-E 3.0 x8	RJ45	4	Intel® XL710
AOC-STGS-i1T	Standard Low Profile	10GbE	PCI-E 3.0 x4	RJ45	1	Intel® X550
AOC-STGS-i2T	Standard Low Profile	10GbE	PCI-E 3.0 x4	RJ45	2	Intel® X550
AOC-STGF-i2S	Standard Low Profile	10GbE	PCI-E 3.0 x8	SFP+	2	Intel® X710
AOC-S25G-m2S	Standard Low Profile	25GbE	PCI-E 3.0 x8	SFP28	2	Mellanox ConnectX®-4 Lx EN
AOC-S40G-i1Q	Standard Low Profile	40GbE	PCI-E 3.0 x8	QSFP+	1	Intel® XL710
AOC-S40G-i2Q	Standard Low Profile	40GbE	PCI-E 3.0 x8	QSFP+	2	Intel® XL710
AOC-S100G-m2C	Standard Low Profile	100GbE	PCI-E 3.0 x16	QSFP28	2	Mellanox ConnectX®-4 EN

Optional Parts List

	Product Part Number	Description
SFP28 Copper Cable	CBL-NTWK-0944-MS28C05M	0.5m 25GbE SFP28 to SFP28, Passive
SFP28 Copper Cable	CBL-NTWK-0944-MS28C10M	1m 25GbE SFP28 to SFP28, Passive
SFP28 Copper Cable	CBL-NTWK-0944-MS28C15M	1.5m 25GbE SFP28 to SFP28, Passive
SFP28 Copper Cable	CBL-NTWK-0944-MS28C20M	2m 25GbE SFP28 to SFP28, Passive
SFP28 Copper Cable	CBL-NTWK-0944-MS28C25M	2.5m 25GbE SFP28 to SFP28, Passive
SFP28 Copper Cable	CBL-NTWK-0944-MS28C30M	3m 25GbE SFP28 to SFP28, Passive
QSFP28 to 4x SFP28 Copper Cable	CBL-NTWK-0988-QS28C50M-1	5m 100GbE QSFP28 to 4x 25GbE SFP28, Passive
SFP28 Transceiver	AOM-SFP28-25GbE-SR-1	25GbE SFP28 Transceiver