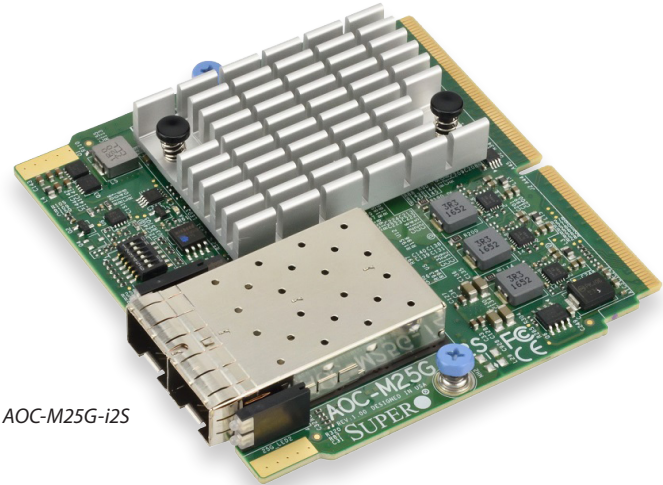


Advanced 25GbE Ethernet Controller in Supermicro Super I/O Module

The Supermicro® AOC-M25G-i2S is one of the most advanced 25GbE controllers in the market. It provides 2-ports of 25GbE SFP28 connectivity in small form factor SIOM and is based on the Intel® XXV710 chipset. 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-M25G-i2S is an excellent choice to enhance network connectivity in data centers and enterprise environments.

Key Features:

- Super I/O Module (SIOM) Form Factor
- Intel® XXV710 25GbE controller, Dual SFP28 connectors
- Network Virtualization: VXLAN and NVGRE
- Intel® Ethernet Flow Director for hardware based application traffic steering
- Data Plane Development Kit (DPDK) optimized for efficient packet processing
- NC-SI for Remote Management
- Asset Management Features
- RoHS compliant 6/6



AOC-M25G-i2S

Specifications

- **General**
 - Super I/O Module (SIOM) Form Factor
 - Intel® XXV710 25GbE controller
 - Dual SFP28 connectors with speed up to 25Gbps per port
 - Time Sync (IEEE1588)
- **I/O Features**
 - Intel® Ethernet Flow Director
 - Intel® XXV710 25GbE controller
 - 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
 - Virtual Machine Load Balancing (VMLB)
 - VLAN support
 - VXLAN and NVGRE support
- **Management Features**
 - Preboot eXecution Environment (PXE) support
 - iSCSI boot
 - Asset Management features with thermal sensor
 - NC-SI for remote management
- **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
 - Receive Side Scaling
- **Operation System Support**
 - Windows Server 2008 R2 / 2012 / 20012 R2 / 2016
 - Linux Stable Kernel version 2.6/4.x
 - Linux RHEL 6.9 / 7.3
 - Linux SLES 11 SP4 / 12 SP1
 - FreeBSD 10.3 / 11
 - UEFI 2.1 / 2.3 / 2.4
 - VMware vSphere 5.1 / 5.5
 - VMware ESXi 6.0 U3 / 6.0
- **Power Consumption**
 - Maximum 11.8W
- **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: 92mm (3.62in) x 87.1mm (3.43in) (W x D)
- **Supported Platforms:**
 - Supermicro® motherboards with Super I/O Module slot
 - Supermicro® server systems with Super I/O Module slot (See SIOM Compatibility Matrix online)

http://www.supermicro.com/support/resources/AOC/AOC_Compatibility_SIOM.cfm

Please note that this product is sold only as part of an integrated solution with Supermicro server systems

Available Supermicro SKUs

SKUs	Part Number	Description
AOC-M25G-i2S	AOC-M25G-i2S	2-port 25 Gigabit Ethernet Adapter
	BKT-0144L	Swappable bracket for 2U+ chassis
AOC-M25G-i2SM	AOC-M25G-i2SM	2-port 25 Gigabit Ethernet Adapter
	BKT-0143L	Internal bracket

Optional Parts List

	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
SFP28 Optical Module	AOM-SFP28-25GbE-SR-1-MLN	SFP28 transceiver module 25G, SR, MMF, LC

Similar Supermicro Products

Product Part Number	Form Factor	Speed	Connector Type	Total Ports	Chipset
AOC-MGP-i2	SIOM	1GbE	RJ45	2	Intel® i350
AOC-MGP-i4	SIOM	1GbE	RJ45	4	Intel® i350
AOC-MTGN-i2S	SIOM	10GbE	SFP+	2	Intel® 82599
AOC-MTG-i4S	SIOM	10GbE	SFP+	4	Intel® XL710
AOC-MTG-i2T	SIOM	10GbE	RJ45	2	Intel® X550
AOC-MTG-i4T	SIOM	10GbE	RJ45	4	Intel® X550
AOC-M25G-m4S	SIOM	25GbE	SFP28	4	Mellanox® CX-4 Lx EN
AOC-MH25G-m2S2T	SIOM	25GbE	SFP28	2	Mellanox® ConnectX-4 Lx EN
		10GbE	RJ45	2	Intel® X550
AOC-MHIBF-m2Q2G	SIOM	InfiniBand FDR GbE	QSFP+	2	Mellanox® ConnectX-3 Pro
			RJ45	2	Intel® i350
AOC-MHIBF-m1Q2G	SIOM	InfiniBand FDR GbE	QSFP+	1	Mellanox® ConnectX-3 Pro
			RJ45	2	Intel® i350
AOC-MHFI-i1C	SIOM	Omni-Path	QSFP28	1	Intel® OPA HFI