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

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**
  - 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)

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

For the most current product information, visit:  
[www.supermicro.com](http://www.supermicro.com)
## Available Supermicro SKUs

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<td>BKT-0144L</td>
<td>Swappble bracket for 2U+ chassis</td>
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<td>BKT-0143L</td>
<td>Internal bracket</td>
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## Optional Parts List

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<td>CBL-NTWK-0944-MS28C05M</td>
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<td>SFP28 Optical Module</td>
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## Similar Supermicro Products

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