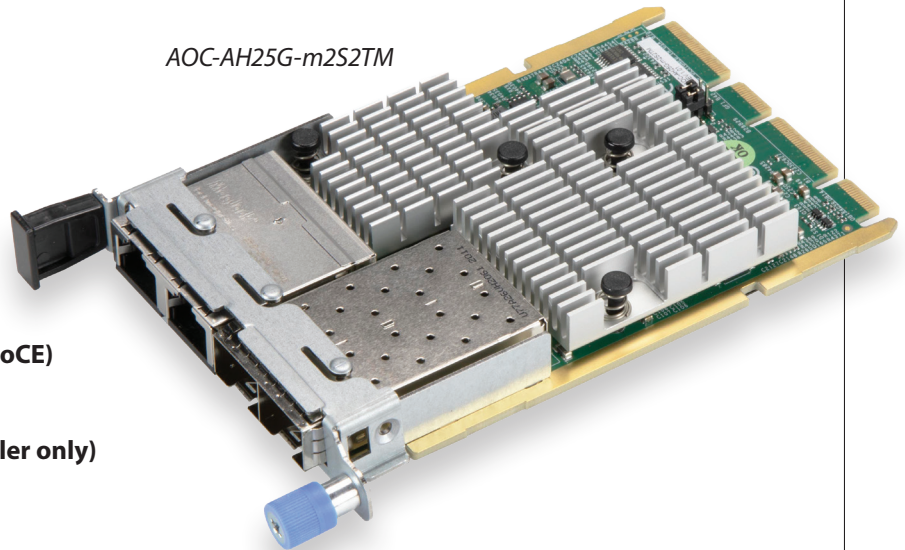# AOC-AH25G-m2S2TM

Advanced 25Gb Ethernet controller in Supermicro Advanced I/O Module (AIOM)

The Supermicro AOC-AH25G-m2S2TM is one of the most feature rich 25GbE controllers in the market. Based on the Mellanox® ConnectX-4 Lx EN with features such as VXLAN and NVGRE; it provides flexible connectivity for different networking requirements. It is compatible with 10GbE networks and offers the most cost effective upgrades from 10GbE to 25GbE in Data Center and Cloud deployments. The AOC-AH25G-m2S2TM also supports an additional 2-ports of 10GbE RJ45 connectivity, based on the Intel® X550 controller, providing NC-SI for Remote Management. This versatile 25GbE controller is an excellent choice to enhance data center network connectivity when high speed throughput is required.

Key Features:

- Advance I/O Module (AIOM) Form Factor
- Mellanox® ConnectX-4 Lx EN 25GbE controller, dual SFP28 connectors
- Intel® X550-AT2 10GbE controller, Dual RJ45 Connectors
- PCIe Gen 3.0 x16
- Hardware offloads for NVGRE, VXLAN and GENEVE encapsulated traffic
- SR-IOV for virtualization
- Low latency RDMA over Converged Ethernet (RoCE) (25GbE Controller only)
- Jumbo Frames Support
- NC-SI for Remote Management (10GbE Controller only)
- BMC Thermal reading support
- RoHS Compliant 6/6

AOC-AH25G-m2S2TM

Specifications

- **General:**
  - Advanced I/O Module (AIOM) Form Factor
  - Mellanox® ConnectX-4 Lx EN 25GbE controller
    o Dual SFP28 connectors with speed up to 25Gbps per port
  - Intel® X550-AT2 10GbE 10GBase-T controller
    o Dual RJ45 connectors with speed up to 10Gbps per port

- **Cables Support**
  - 25GbE SFP28: Direct attach copper cables and Fiber-optic cables (with required optional transceivers)
  - 10GbE RJ45: RJ-45 Category-6 up to 55m; Category-6A up to 100m

- **Power Consumption**
  - Maximum: 25W

- **Operating Conditions**
  - Storage condition: -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: 115mm (4.528in) x 76mm (2.992in) (D x W)

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