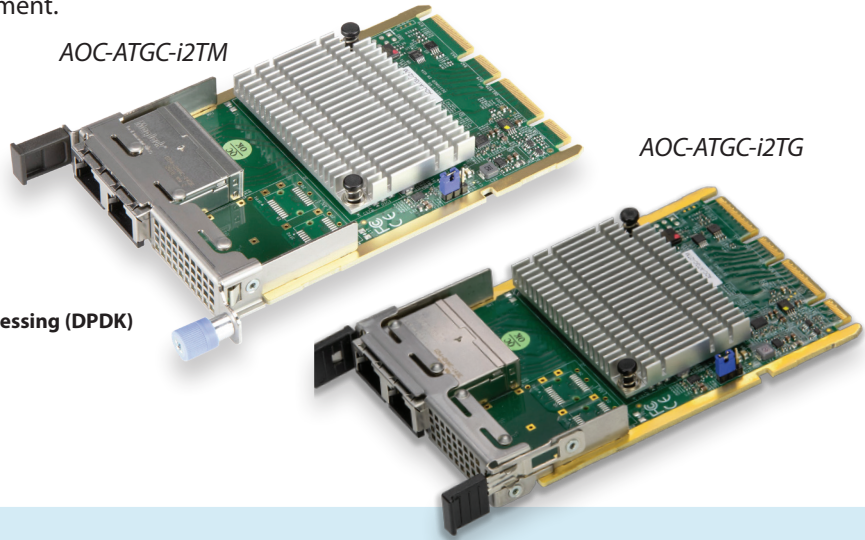# AOC-ATGC-i2TM & AOC-ATGC-i2TG

Advanced 10Gb Ethernet controller in Supermicro Advanced I/O Module (AIOM)

Supermicro® Advanced I/O Modules (AIOM) is the latest form factor designed to provide a wide range of networking options and other I/O technologies. The AOC-ATGC-i2TM & AOC-ATGC-i2TG are among the most flexible and scalable 2-port 10Gb network solutions in the market. Based on the Intel® X710-AT2 network controller with performance-enhancing features and power management technologies, the AOC-ATGC-i2TM & AOC-ATGC-i2TG provide a quality networking choice for data centers while reducing CPU utilization and power consumption. With the added NC-SI feature, these adapters also can provide secure networking ports for remote server management.

AOC-ATGC-i2TM

AOC-ATGC-i2TG

Key Features

- **Advanced I/O Module (AIOM) Form Factor**
- **Intel® X710-AT2 Ethernet Controller**
- **2x 10GBase-T ports with RJ45 connectors**
- **Network Virtualization: VXLAN and NVGRE**
- **Energy Efficient Ethernet (EEE)**
- **Intel® Ethernet Flow Director**
- **Data Plane Developer Kit for efficient packet processing (DPDK)**
- **Asset Management Features**
- **NC-SI for Remote Management**
- **Supports RJ-45 Category 6 and 6A cables**
- **RoHS compliant 6/6**

Specifications

- **General**
  - Advanced I/O Module (AIOM) Form Factor
  - Intel® X710-AT2 controller
  - 2x RJ45 connectors with speed up to 10Gbps per port
  - PCIe Gen3 X8
- **Networking Features**
  - IEEE 802.3ad, 802.1AX Link Aggregation
  - IEEE 802.1Q VLAN
  - MSI and MSI-X support
  - Intel® Flow Director
  - Jumbo Frames (up to 9.5KB)
  - IEEE 802.3x Flow Control
  - Teaming support
  - Checksum Offload (IPv4/IPv6, SCTP, TCP, UDP, Tx/Rx)
- **Virtualization Features**
  - Virtual Machine Devices queues (VMDq)
  - Single-Root I/O Virtualization (SR-IOV)
  - VLAN
  - VXLAN and NVGRE
  - GENEVE
- **Management Features**
  - Asset Management support with thermal sensor
  - NC-SI for remote management
  - Preboot eXecution Environment (PXE)
  - iSCSI remote boot
  - PLDM

- **Power Savings**
  - ACPI compliant power management
  - Energy Efficient Ethernet (IEEE 802.3az)
- **OS Support**
  - Windows®
  - Linux RHEL
  - Linux SLES
  - Linux Ubuntu
  - Linux CentOS
  - FreeBSD
  - VMware
- **Power Consumption**
  - Maximum: 9.5W
- **Operating Conditions**
  - Storage temperature: -40℃ to 70℃ (-40°F to 158°F)
  - Storage humidity: 90% non-condensing relative humidity at 35℃
- **Physical Dimensions**
  - PCB dimensions: 76mm x 115mm (W x D)

Available SKUs

SKUs	Bracket Included	Description
AOC-ATGC-i2TM	BKT-0185L	2-port 10 Gigabit Ethernet Adapter with a 0.5U height bracket.
AOC-ATGC-i2TG	BKT-0208L	2-port 10 Gigabit Ethernet Adapter with a 0.5U height narrow bracket for Grand Twin Front IO