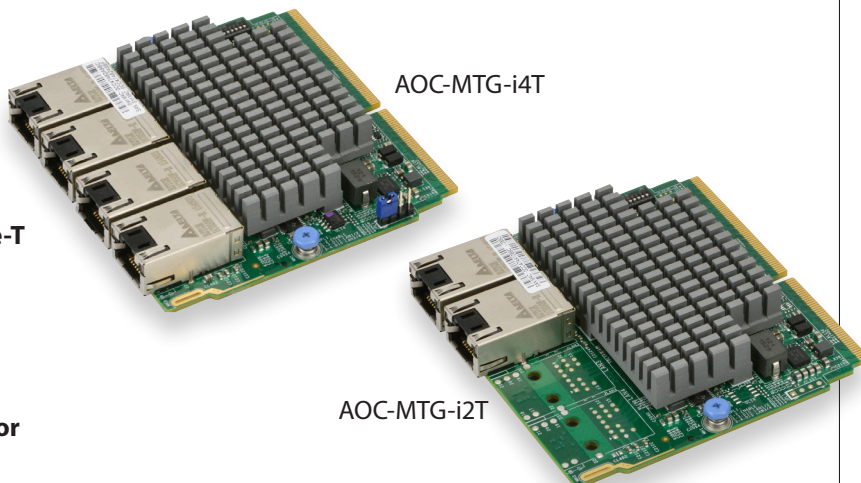# AOC-MTG-i4T & AOC-MTG-i2T

SUPERMICRO®

The Most Compact and Advanced 10GBase-T Adapters

The Supermicro AOC-MTG-i4T and AOC-MTG-i2T are the most feature rich low power 10GBase-T controllers in the market today. Based on the Intel® X550 chipset with virtualization features such as VXLAN and NVGRE, they offer flexible connectivity selection for all networking requirements. The second generation integrated 10GbE MAC+PHY drives down both cost and power enabling a highly cost effective deployment of 10GbE in the data center. The AOC-MTG-i4T and AOC-MTG-i2T are among the most innovative 10GbE controllers in the market and an excellent choice to expand network connectivity in data centers and enterprise environments.

Key Features:
- **Super I/O Module (SIOM) Form Factor**
- **Intel® X550 10GbE controller. The second generation, 10GBase-T controller with integrated MAC and PHY**
- **Backward compatibility with existing 1000Base-T networks simplifies the transition to 10 GbE**
- **Quad and Dual RJ45 Connectors**
- **Network Virtualization Offloads: VXLAN and NVGRE**
- **VMDq and SR-IOV for virtualized Environment**
- **Asset Management Features with thermal sensor**
- **NC-SI for Remote Management**
- **Supports RJ-45 Category-6 and 6A cables**
- **RoHS compliant 6/6**

AOC-MTG-i4T

AOC-MTG-i2T

Specifications

- **General:**
  - Intel® X550 10GbE controller with integrated 10GBase-T copper PHYs
  - Super I/O Module (SIOM) Form Factor
  - Quad and dual RJ45 ports

- **I/O Features:**
  - MSI/MSI-X support
  - Low Latency
  - Multiple Queues – 64 Tx and Rx Per Port
  - Tx/Rx IP, SCTP, TCP, and UDP Checksum Offloading (IPv4, IPv6) Capabilities
  - Tx TCP Segmentation Offload (IPv4, IPv6)
  - Receive and Transmit Side Scaling for Windows Environment and Scalable I/O for Linux Environments (IPv4, IPv6 and TCP/ UDP)

- **Virtualization Features:**
  - Multi-mode I/O Virtualization Operations
  - Network Virtualization Stateless Offload: VXLAN, NVGRE
  - Support for Virtual Machine Device Queues (VMDq)
  - 64 Transmit (Tx) and Receive (Rx) Queue Pairs Per Port
  - Flexible Port Partitioning – 64 VFs per Port
  - PCI-SIG SR-IOV
  - 802.1q VLAN support

- **Management Features:**
  - Preboot eXecution Environment (PXE) support
  - Remote Boot iSCSI and FCoE
  - IEEE 1588
  - Asset Management support on Supermicro® platforms
  - NC-SI for Remote Management

- **Cables Support:**
  - RJ-45 Category-6 up to 55m; Category-6A up to 100m

- **Power Consumption:**
  - AOC-MTG-i4T: Typical 22W, Maximum 26W
  - AOC-MTG-i2T: Typical 11W, Maximum 13W

- **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 35ºC

- **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

AOC-MTG-i4T & AOC-MTG-i2T

Available SKUs

SKUs	Description	Description
AOC-MTG-i4T	AOC-MTG-i4T	4-port 10 Gigabit Ethernet Adapter
	BKT-0088L	Swappable bracket for 2U+ chassis
AOC-MTG-i4TM	AOC-MTG-i4TM	4-port 10 Gigabit Ethernet Adapter
	BKT-0087L	Internal bracket
AOC-MTG-i2T	AOC-MTG-i2T	2-port 10 Gigabit Ethernet Adapter
	BKT-0086L	Swappable bracket for 2U+ chassis
AOC-MTG-i2TM	AOC-MTG-i2TM	2-port 10 Gigabit Ethernet Adapter
	BKT-0085L	Internal bracket

Operating System Support

Operating System Support	IA32	X64	IPF
Windows 7 SP1		x	
Windows 8, 8.1		x	
Windows 10		x	
Windows Server 2008 R2		x	
Windows Server 2012, 2012R2		x	
Windows PE 3.0 (2008 R2 PE)	x	x	
Windows PE 4.0 (2012 PE)	x	x	
Windows PE 5.0 (2023 R2 PE)	x	x	
Linux Stable Kernel Version 2.6/3.x/4.x	x	x	x
Linux RHEL 6.7, 7.1	x	x	
Linux SLES 11 SP4	x	x	x
Linux SLES 12	x	x	
FreeBSD 10.2	x	x	
UEFI 2.1, 2.3		x	x
UEFI 2.4		x	
VMWare ESXi 5.5, 6.0		x	

Optional Accessories

Product Part Number	Part Number	Description
CAT6A Cable	CBL-NTWK-0603	RJ45 CAT6A 550MHz Rated Blue 3 ft. patch cable
CAT6A Cable	CBL-NTWK-0604	RJ45 CAT6A 550MHz Rated Blue 5 ft. patch cable
CAT6A Cable	CBL-NTWK-0605	RJ45 CAT6A 550MHz Rated Blue 6 ft. patch cable
CAT6A Cable	CBL-NTWK-0606	RJ45 CAT6A 550MHz Rated Blue 9 ft. patch cable
CAT6A Cable	CBL-NTWK-0607	RJ45 CAT6A 550MHz Rated Blue 10 ft. patch cable
CAT6A Cable	CBL-NTWK-0612	RJ45 CAT6A 550MHz Rated Blue 24 ft. patch cable

Similar Products

Product Part Number	Form Factor	Speed	Connector Type	Total Ports	Controller
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

For the most current product information, visit:

www.supermicro.com