

Add-on Card AOC-CTG-i2T

Products ▶ Accessories ▶ [**AOC-CTG-i2T**]

Specifications

Add-on Card

The Most Advanced Ethernet Adapter for High-Density Server Systems

The Supermicro AOC-CTG-i2T is one of the lowest power and most cost effective 10GbBase-T adapter solutions in today's data center marketplace. The auto-negotiation feature between 1GbE and 10GbE provided by the AOC-CTG-i2T offers users the backwards compatibility they need for a smooth transition to 10GbE. It reliably addresses the demanding needs of bandwidth intensive applications at a fraction of the cost of traditional 10GbE adapters by utilizing cost-effective RJ-45 connectors at a much longer cabling distance. The Supermicro AOC-CTG-i2T 10GbE adapter is truly a best-in-class solution for advanced data centers.



This product is only available through Supermicro.

Key Features

- Dual RJ45 Connectors
- 2U MicroLP Form Factor
- PCI Express 2.1 (2.5GT/s or 5GT/s)
- Intel® QuickData Technology
- VMDq, Next-Generation VMDq, and PC-SIG SR-IOV for Virtualized Environments
- Jumbo Frames Support up to 15.5KB
- Load Balancing on Multiple CPUs
- iSCSI Remote Boot Support
- Fibre Channel over Ethernet (FCoE)
- Support the most popular Network Operating Systems (NOSs)
- Support RJ-45 Category-6 or 6A
- RoHS compliant 6/6

Compliance

RoHS ☒ RoHS Compliant 6/6, Pb Free

Downloads

User's Guide	[Download]
Datasheet	[Download]
Driver	Choose the latest CDR-NIC folder, and then click on Intel folder for driver [FTP Site]
Driver CD	Click on the latest CDR-NIC ISO file to download [FTP Site]

Compatibility Matrices

Servers	Supermicro MicroCloud and Twin Server Systems with microLP expansion slot See MicroLP Compatibility Matrix
Cables & Transceivers	Networking Cables & Transceivers

Specification

• General

- Intel® X540 10GbE controller with integrated 10GbBase-T copper PHYs
- Compact size 2U MicroLP form factor
- PCI-E x8 2.1 (2.5GT/s or 5GT/s) interface
- Dual RJ-45 connectors with speed up to 10Gb/port
- Load balancing on multiple CPUs
- Intel® PROSet Utility for Windows® Device Manager
- Maximum power consumption: about 13W

• I/O Features

- Intel® QuickData Technology: DMA engine that enhances data acceleration and lowers CPU usage
- Support jumbo frames of up to 15.5KB
- 802.1q VLAN support
- Two integrated independent 10GbBase-T interfaces operate at 10GbBase-T (10Gb/s) and 1000Base-T (1Gb/s) modes
- Direct Cache Access (DCA) to avoid cache misses
- MSI-X support to minimize interrupt overhead of and allow load-balancing between multiple cores/CPU's
- Receive and Transmit Side Scaling for Windows environment and Scalable I/O for Linux environments

• Performance Features

- TCP/UDP Segmentation Offload
- IPv6 Support for IP/TCP and IP/UDP Receive Checksum Offload
- Supports Fibre Channel over Ethernet (FCoE)
- Low latency interrupts
- DCA support

• Virtualization Features

- Support for Virtual Machine Device Queues (VMDq and Next-generation VMDq)
- L2 Ethernet MAC address and VLAN filters
- PC-SIG SR-IOV implementation
- Advanced Packet Filtering
- VLAN support to allow creation of multiple VLAN segments
- VXLAN through Software

• Manageability Features

- Preboot eXecution Environment (PXE) support
- Simple Network Management Protocol (SNMP) and Remote Network Monitoring (RMON) statistics counters
- iSCSI remote boot

• OS Support

- Windows® Server 2012 (x64 edition)
- Windows® 8 (x64 edition and 32-bit)
- Windows® Server 2008 R2 (x64 edition and 64-bit)
- Windows® Server 2008 (x64 edition, 64-bit, and 32-bit)
- Windows® 7 (x64 edition and 32-bit)
- Windows® Vista (x64 edition and 32-bit)
- Windows® Server 2003 (x64 edition, 64-bit, and 32-bit)
- VMWare
- RedHat EL, SuSe SLES
- FreeBSD

• Cables Support

- RJ-45 Category-6 up to 55m; Category-6A up to 100m

• Operating Conditions

- Operating temperature: 0°C to 55°C (32°F to 131°F)

• Physical Dimensions (L x W)

- Card PCB dimensions: 12.3cm (4.8") x 7.0cm (2.75")

Parts List

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	Part Number	Qty	Description
Add-on Card	AOC-CTG-i2T	1	10 Gigabit Ethernet Adapter
Bracket	BKT-0067L	1	MicroLP PCB bracket (pre-installed)
	BKT-0068L	1	I/O bracket (pre-installed)

Optional Parts List

	Part Number	Qty	Description
	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-0608	-	RJ45 CAT6A 550MHz Rated Blue 12 ft patch cable
CAT6A Cable	CBL-NTWK-0609	-	RJ45 CAT6A 550MHz Rated Blue 15 ft patch cable
CAT6A Cable	CBL-NTWK-0610	-	RJ45 CAT6A 550MHz Rated Blue 18 ft patch cable
CAT6A Cable	CBL-NTWK-0611	-	RJ45 CAT6A 550MHz Rated Blue 21 ft patch cable
CAT6A Cable	CBL-NTWK-0612	-	RJ45 CAT6A 550MHz Rated Blue 24 ft patch cable