The Supermicro AOC-CTG-i2T is one of the lowest power and most cost effective 10GBase-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.

**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 9KB**
- **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**

**Specifications**

- **General:**
  - Intel® X540 10GbE controller with integrated 10GBase-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 9KB
  - 802.1q VLAN support
  - MSI-X support to minimize interrupt overhead of and allow load-balancing between multiple cores/CPUs
  - 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/ICMP 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® Vista (x64 edition 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
- **Physical Dimensions:**
  - Card PCB dimensions: 12.3cm (4.8in) x 7.0cm (2.75in) (LxW)
- **Optional Accessories:**
  - CBL-NTWK-0603: RJ45 CAT6A 550MHz Rated Blue 3 ft patch cable
  - CBL-NTWK-0604: RJ45 CAT6A 550MHz Rated Blue 5 ft patch cable
  - CBL-NTWK-0605: RJ45 CAT6A 550MHz Rated Blue 6 ft patch cable
  - CBL-NTWK-0606: RJ45 CAT6A 550MHz Rated Blue 9 ft patch cable
  - CBL-NTWK-0607: RJ45 CAT6A 550MHz Rated Blue 10 ft patch cable
  - CBL-NTWK-0608: RJ45 CAT6A 550MHz Rated Blue 12 ft patch cable
  - CBL-NTWK-0609: RJ45 CAT6A 550MHz Rated Blue 15 ft patch cable
  - CBL-NTWK-0610: RJ45 CAT6A 550MHz Rated Blue 18 ft patch cable
  - CBL-NTWK-0611: RJ45 CAT6A 550MHz Rated Blue 21 ft patch cable
  - CBL-NTWK-0612: RJ45 CAT6A 550MHz Rated Blue 24 ft patch cable

**Compliance/Environmental**

- RoHS Compliant 6/6, Pb Free

**Supported Platforms**

- 2U Twin+: 6027TR-D70RF+, 6027TR-D71RF+, 6027TR-DTRF+, 2027TR-D70RF+
- FatTwin: F627R3-D72B+, F627R3-DTB+

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