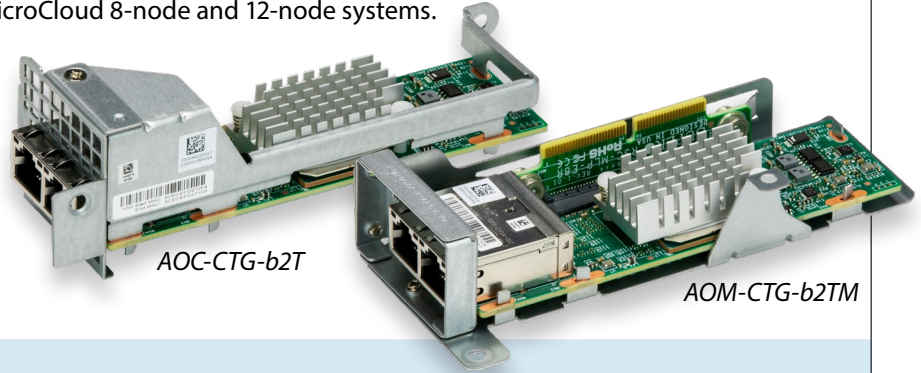


Compact and Powerful dual-port 10 Gigabit Ethernet Adapter

The AOC-CTG-b2T and AOM-CTG-b2TM 10 Gigabit Ethernet Adapters are the most compact and scalable 10GBase-T adapters for today's demanding data center environments. Based on Broadcom® network controller BCM57416, it addresses the demanding needs of the next-generation data center. The AOC-CTG-b2T and AOM-CTG-b2TM are designed in a proprietary and small MicroLP formfactor to fit Supermicro MicroCloud 8-node and 12-node systems.

Key Features

- Dual 10GbE RJ45 Connectors
- MicroLP Form Factor
- Broadcom BCM57416 Ethernet Controller
- PCI-E 3.0 x4 interface
- Asset Management feature with thermal sensor
- NC-SI for remote management



Specifications

- **General**
 - MicroLP Form Factor for Supermicro Micro Cloud systems
 - Broadcom BCM57416 dual-port 10Gbps controller
 - PCI-E 3.0 x4 (8GT/s) interface
 - Dual RJ45 connectors
- **Networking Features**
 - Jumbo Frames (up to 9600-byte)
 - 802.3x flow control
 - Link Aggregation (802.3ad)
 - Virtual LANs 802.1q VLAN tagging
 - Configurable Flow Acceleration
 - IEEE 1588 and Time Sync
 - RDMA over Converged Ethernet (RoCE)
 - TruFlow Technology
- **Stateless Offload Features**
 - TCP, UDP, IPv4, IPv6 checksum offload
 - Large Send Offload
 - Receive Segment Coalescing
 - TCP segmentation Offload
 - Large Receive Offload
 - Receive Side Scaling (RSS)
 - Transmit Side Scaling (TSS)
- **NIC partitioning (NPAR)**
 - 16 Physical Functions
 - QoS per partition
 - Partitioning control via sideband communication
 - Up to 64MAC/VLAN filter per partition
 - Stateless offload configuration per partition
 - VEB/VEPA support
- **Flow Processing**
 - Exact/Wildcard Match Flow Lookup
 - VLAN insertion/deletion
 - NAT/NAPT
 - Mirroring
- **Virtualization Features**
 - NetQueue, VMQueue, and Multiqueue
 - Support for 128 Virtual Functions
 - VXLAN
 - NVGRE
 - Geneve
 - Edge Virtual Bridging (EVB)
- **Data Center Bridging**
 - Priority-based flow control (PFC; IEEE 802.1Qbb)
 - Enhanced transmission selection (ETS; IEEE802.1Qau)
 - Quantized congestion Notification (QCN; IEEE802.1Qau)
 - Data Center Bridging Capability eXchange (DCBX; IEEE802.1Qaz)
 - 8 traffic classes per port; fully DCB compliant per 802.1Qbb
- **Manageability**
 - Network Controller Sideband Interface (NC-SI)
 - PXE boot
 - Asset Management with Thermal Sensors
- **Power Savings**
 - ACPI compliant power management
 - Ultra low-power mode
 - Pass-through Energy Efficient Ethernet (IEEE802.3az-2010)
- **Operating Conditions**
 - Storage temperature: -40°C to 70°C (-40°F to 158°F)
 - Storage humidity: 90% non-condensing relative humidity at 35°C
- **Physical Dimensions**
 - PCB dimensions: 11.3cm (4.46”) x 3.9cm (1.54”)
- **Supported Platforms**
 - AOC-CTG-b2T on MicroCloud 8-node systems
 - AOM-CTG-b2TM on MicroCloud 12-node systems

Available SKUs

SKU	Bracket/Riser included	Description
AOC-CTG-b2T	BKT-0051L & BKT-0054L	MicroLP 2-Port 10GbE RJ45 adapter for MicroCloud 8-node systems.
AOM-CTG-b2TM	MCP-240-93907-0N & RSC-MLP-E8R	MicroLP 2-Port 10GbE RJ45 adapter for MicroCloud 12-node systems.