AOC-CTG-b2T & AOM-CTG-b2TM

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 Scalling (RSS)
  – Transmit Side Scalling (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

<table>
<thead>
<tr>
<th>SKU</th>
<th>Bracket/Riser included</th>
<th>Description</th>
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<tbody>
<tr>
<td>AOC-CTG-b2T</td>
<td>BKT-0051L &amp; BKT-0054L</td>
<td>MicroLP 2-Port 10GbE RJ45 adapter for MicroCloud 8-node systems.</td>
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Please note that this product is sold only as part of an integrated solution with Supermicro server systems

www.supermicro.com

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