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AOC-STG-b4S

SUPERMICR

The Lowest Power and Highest Performance 4-port 10GbE Controller in The Market

Proving once again that "We Keep IT Green", Supermicro introduces a new 4-port 10GbE controller featuring the lowest power consumption in the industry. The AOC-STG-b4S uses the Broadcom BCM57840S controller to offer a broad selection of popular networking features including TCP Offload, support for PXE boot and Virtualized Environments (VMDq and PC-SIG SR-IOV), and Energy Efficient Ethernet (IEEE 802.3az). For the lowest power and highest performance, the AOC-STG-b4S is the best choice for high speed Ethernet connectivity for Supermicro servers.

Key Features

- Low-Profile Standard Form Factor
- PCI Express 3.0 (8GT/s)
- 4 SFP+ Ports
- TCP Offload Engine (TOE)
- VMDq and PC-SIG SR-IOV for Virtualized Environments
- Jumbo Frame Support
- IEEE 802.3az Energy Efficient Ethernet (EEE)
- Low Power Consumption (About 14W)
- iSCSI Remote Boot Support
- PXE Boot Support
- RoHS compliant 6/6

Specifications

• General:

- Broadcom BCM57840S controller
- Compact size low-profile standard form factor
- PCI-E 3.0 x8 (8GT/s) interface
- Quad SFP+ connectors

Ethernet Features

- Energy Efficient Ethernet IEEE 802.3az supported
- Traffic Steering for MAC address and VLAN Tag
- Up to 32 queues/port supported for RSS (Receive Side Scaling)
- Congestion Notification 802.1au
- Large Send Offload (LSO) and Large Receive Offload (LRO)
- Link Aggregation 802.3ad

Network Features

- Jumbo Frames up to 9000KB
- Clause 73 Auto-negotiation
- IEEE 801.2q VLAN
- External PHY support
- TCP Offload Engine (TOE) reduces host CPU utilization while preserving the rich and flexible nature of soft OS stack implementation
- iSCSI Acceleration
- IPv6 Acceleration
- Support port aggregation, failover, load balancing

Remote Boot Options

- Preboot eXecution Environment (PXE) support
- iSCSI remote boot

Virtualization Features

- Up to 128 per port for VMDq
- SR-IOV with up to 64 Virtual Functions (VFs) for Guest Operating Systems (GOS) per port
- Supports NetQueue and VMQueue
- Supports Data Center Bridging which provides lossless data delivery, lower latency, and standards-based bandwidth sharing of data center physical links
- Supports up to 68 Rx/Tx Descriptor Queues for Virtualization per port
- Supports up to 136 MAC Addresses per port
- Supports IEEE 802.1Qau Congestion Notification

Compliance/Environmental - RoHS Compliant 6/6, Pb Free



- OS Support
 - Windows® 2008 Server R2 (with HyperV), Server 2012 (with HyperV)
 RedHat EL 5, 6, and 7
 - SuSE SLES 10, 11, and 12
 - VMware ESX 5.0 (vSphere 5.0), 5.1 (vSphere 5.1), and 6.0 (vSphere 6.0) – Solaris 11, Free BSD
- Cable Support
 - SFP+ direct attached twin axial cables, up to 5 meters
 - LC-LC fiber-optic cables (with required optional transceivers)
- 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)
- Physical Dimensions
 - Card PCB dimensions: 13.72cm (5.4in) x 6.90cm (2.73in) (L x H)
 - Height of end brackets: standard 12cm (4.725in), low-profile 7.94cm (3.13in)

• Optional Accessories

- AOC-E10GSFPSR: SFP+ transceiver module for short range fiber cables (up to 300m)
- AOC-E10GSFPLR: SFP+ transceiver module for long range fiber cables (up to 3000m)
- AOC-TSR-FS: SFP+ transceiver module for short range fiber cables (up to 300m)
- AOC-GBIC-FSR2: SFP+ transceiver module for short range fiber cables (up to 300m), single speed (10Gb)
- CBL-0347L: 39.37" (100cm) 10GbE SFP+ to SFP+, Twinax copper cable
- CBL-0456L: 78.74" (200cm) 10GbE SFP+ to SFP+, Twinax copper cable
- CBL-0348L: 118.11" (300cm) 10GbE SFP+ to SFP+, Twinax copper cable
- CBL-0349L: 196.85" (500cm) 10GbE SFP+ to SFP+, Twinax copper cable

Supported Platforms

- Supermicro motherboards with minimum PCI-E x8 slot with enough clearance
- Supermicro server systems with low-profile or full-height PCI-E x8 expansion slot with enough clearance

Please note that this product is only available as an integrated solution with Supermicro server systems

For the most current product information, visit: www.supermicro.com