



ECLIPSE/A4

High-performance server/node platform for large memory HPC, SMP, "Fat Node" or virtualization

The Eclipse/A4™ is a leading-edge, science/enterprise class server node available in a 1U or 2U chassis platform, perfectly suited for High-Performance Computing (HPC) applications. Based on the latest AMD® Opteron® 6200 series processors and a memory capacity of up to 1TB of DDR3 memory the Eclipse/A4 combines state of the art in computing, memory and I/O performance with management features, ease of use and component redundancy. The Eclipse/A4™ is a perfect platform for large memory, SMP, virtualization or "fat node" applications.

KEY FEATURES

- Quad-socket (Socket G34) AMD® Opteron® 6200 (Interlagos) series compute platform
- 64 processor cores (based on 16-core CPUs)
- Up to 1TB of DDR3 Registered/ECC memory per node **
- (1U) Three 3.5" hot-plug SAS/SATA drives
(2U) Six 3.5" hot-plug SAS/SATA drives
- Optional FDR Infiniband, QDR Infiniband, 40GbE and 10GbE network connectivity
- Dual 1000Base-T gigabit Ethernet ports with IPMI 2.0 management

** Memory capacities greater than 512GB per node require the use of special 32GB DIMM memory. Ask your Aeon Computing sales engineer for specific details for your desired configuration.

SPECIFICATIONS

Processor / Interconnect

Quad G34 processor sockets with support for two AMD® Opteron® 6200 (Interlagos) series processors
Up to 3.2Ghz Hyper-Transport® 3 interconnect

System Memory

16GB-1TB of DDR3 Registered/ECC server class memory

Chipset

AMD® SR5690 / SR5670 / SP5100

Network, I/O and Fabric Interfaces

Dual 1000Base-T gigabit Ethernet ports (Intel® 82576 controller)
Server-grade VGA graphics (one port per node)
Four USB 2.0 ports (two external/rear, two internal headers)
Two PCI-Express 2.0 x16, One PCI-Express x8 slots, One UIO slot

Optional I/O

FDR (56Gbps) or QDR (40Gbps) Infiniband (QSFP)
40GbE or 10GbE Ethernet

Disk Storage

Three (1U) or Six (2U) 3.5-inch hot swap SAS/SATA disk drive bays

Form Factor

1U (1.75-inches vertical cabinet space), 28 inches in depth
2U (3.5-inches vertical cabinet space), 28 inches in depth

Management

IPMI 2.0 management accessible via 100Base-T ethernet ports
DHCP/PXE support for OS installation and management

Power Supplies and Utilization

700 Watt N+1 removable/hot-pluggable power supplies
single or dual supply (N+1) configurations
80-Plus Gold Level Certified for power efficiency

