ECLIPSE7-QUAD

High-performance, high-density server/node platform for HPC applications with removable node service features.

The Eclipse7-Quad™ is **four** independent, leading-edge, science/enterprise class server nodes in one 2U chassis platform, perfectly suited for High-Performance Computing (HPC) applications. Based on the latest Intel® Xeon E5® 2600 series processors the Eclipse7-Quad combines state of the art in computing, I/O performance and management features with ease of use, component redundancy and fully removable modules that allow rapid, tool-free maintenance of a single node without having to pull remaining nodes from operation.

KEY FEATURES

- Four independent dual-socket (LGA2011) motherboards for Intel® Xeon® E5 2600 series processors

- Up to 512GB of DDR3 Registered/ECC memory per node **

- Removable server node modules and removable N+1 power supplies

- FDR or QDR Infiniband

- Hot-swap SATA drives (3 per node)

- Dual 1000Base-T gigabit Ethernet ports with IPMI 2.0 management

*** Memory capacities greater than 128GB per node require the use of LRDIMM memory. Ask your Aeon Computing sales engineer for specific details for your desired configuration.*

SPECIFICATIONS

Processor / Interconnect
Dual LGA2011 processor sockets with support for two
Intel® Xeon® E5-2600 series processors per node
Up to 8.0 GT/second Quickpath® interconnect

System Memory
8GB-512GB of DDR3 Registered/ECC server class memory per node
Memory mirroring supported

Chipset
Intel® C602 (Romley)

Network, I/O and Fabric Interfaces
FDR (56Gbps) or QDR (40Gbps) Infiniband (QSFP)
Dual 1000Base-T gigabit Ethernet ports (Intel® i350 controller)
Server-grade VGA graphics (one port per node)
Four USB 2.0 ports (two external/rear, two internal/header)
One PCI-Express 3.0 x8 low-profile slot per node

Disk Storage
Three hot-swap SATA 3.5-inch disk drive bays per node (12 total)

Form Factor
2U (3.5-inches vertical cabinet space), 27 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
Dual 1100 Watt N+1 removable/hot-pluggable power supplies
80-Plus Gold Level Certified for power efficiency
Power utilization based upon processor, memory and storage configuration.