

Advanced Micro Devices 64-Bit Opteron Design Note #37 Triple Processor Video Server



Three high-powered 64-Bit AMD Opteron processors together with three double-wide PCI-Express Video Slots make the most demanding simulations possible.



“We chose Orchid Technologies because of its well known reputation for high quality design services. Power-up was flawless and no board rework required! Orchid’s attention to detail is incredible.”

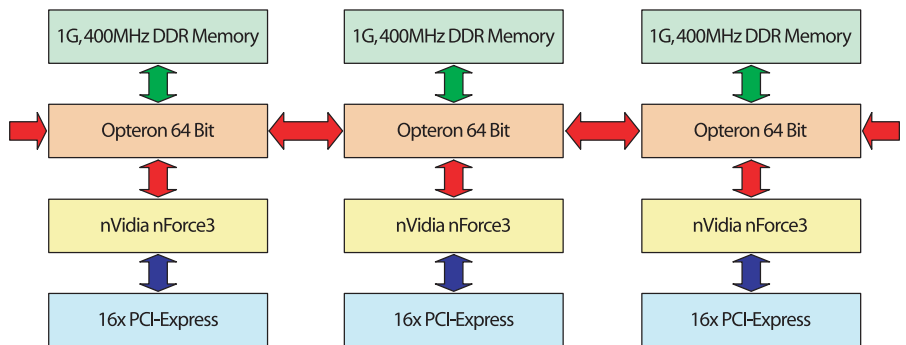
- Engineering Manager

Advanced Micro Devices Opteron 64-Bit CPU

When Advanced Micro Devices approached Orchid Technologies to perform the design of its Triple Opteron 64-Bit Video Server we realized that this would be one of the most powerful video processing computers ever designed. Each 64-Bit AMD Opteron Processor connects to its neighbor through two dedicated, extremely high-speed HyperTransport links. Each 64-Bit AMD Opteron Processor also connects to its own dedicated NVIDIA nForce3 media and communications processor (MCP). Finally, each MCP supports its own dedicated, high-speed sixteen-lane PCI-Express video slot.

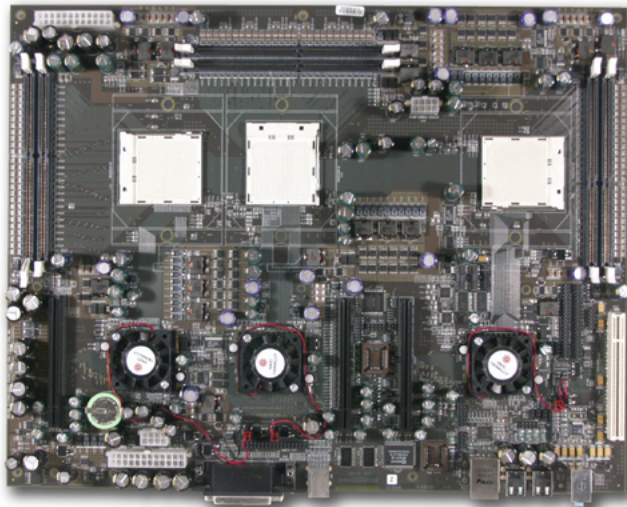
nVidia nForce3 MCP

nVidia’s nForce3 Media and Communications Processor (MCP) provide dedicated support services to each AMD 64-Bit Opteron Processor. Three dedicated high speed HyperTransport links connect three AMD 64-Bit Opteron Processors to three nVidia nForce3 MCP devices. Each nVidia nForce3 MCP supports a dedicated, high-speed, sixteen-lane PCI-Express video slot.



Orchid Technologies Delivers

The development of custom electronics technology solutions for our OEM clients is Orchid’s entire business. High-performance digital designs with rapid design cycles, demanding technical requirements, and unforgiving schedules set us apart. Call Orchid Technologies today. We’ll put a custom imaging product design in your hands tomorrow!



**ORCHID TECHNOLOGIES
ENGINEERING & CONSULTING INC.**

Copyright © 2008 Orchid Technologies Engineering & Consulting Inc., all rights reserved. OTEC and the Orchid Technologies logo are trademarks of Orchid Technologies Engineering & Consulting Inc. All other marks are the property of their respective owners.

Custom Engineering From Concept to Production

147 Main Street, Maynard, MA 01754 www.orchid-tech.com 978-461-2000 Fax: 978-461-2003