



Customers call on Fusion Microsystems when their paramount concerns include precise visualizations, high computing speed and uncompromised scientific accuracy. Such projects typically entail manipulating enormous volumes of raw data. Fusion's high-performance systems rely on AMCC 3ware RAID controller-equipped workstations to provide the ultimate in high performance, reliable RAID storage using affordable, off-the-shelf components.

With speed in excess of 400 MB/sec sequential RAID 5 reads and over 110 MB/sec RAID 5 sequential writes — as well as the security of a true hardware RAID architecture — AMCC's 3ware RAID controllers enable a completely new class of SATA RAID storage solutions.

When the data density calls for RAM in the Gigabytes and storage measured in Terabytes, top VARs turn to AMCC 3ware Serial ATA controllers

Fusion Microsystems provides full-service, fully integrated Information Technology products and services. The internationally recognized Value-Added Reseller (VAR) and system integrator specializes in building high-performance computing solutions. AMCC 3ware SATA RAID controllers enable the company to develop systems that rise to the most demanding visual simulation challenges, including forensic visualizations and complex event reenactments, as well as other complex data-handling tasks — all of which require significant high-performance storage processing.

The Challenge: High Performance, Accuracy and Reliability

“After 9/11, forensic engineers needed a digital reenactment of the World Trade Center collapses. The visualization had to be tight, well supported by known facts, and had to permit solid analysis of the dynamics. And they needed results fast. With 12 high-end graphics workstations and 3ware 8506-enabled RAID, they brought the project in on time. It was an amazing piece of digital forensics.”

— Joe Stopski, Sales Director,
Fusion Microsystems

Digital technology has always advanced so fast that components sometimes go obsolete before they even reach a market. When a top-performance system is needed quickly for purposes of forensic or engineering visualization, it can be critically important to use readily available, off-the-shelf components that nonetheless never compromise either performance or reliability.

Fusion Microsystems holds a unique position in this demanding market. Fusion's high-performance workstations create fast, accurate, complex visual presentations for customers ranging from Fortune 1000 companies to small and medium businesses, educational and government agencies, and nonprofit organizations. They include legal and technical consultants, forensic engineering firms, law enforcement agencies and others who need fast, reliable analysis and visualization of often quite complex events. The visualizations are likely to be needed within very tight time constraints. Fusion's high-performance systems enable ultra-fast processing and modeling that allow customers to accurately recreate or forecast events.

“Our 3ware RAID controllers serve applications ranging from multi-terabyte supercomputing centers to high-density airport flight information data management. The controllers provide our VAR customers with the competitive edge they need to bid successfully on projects that combine high availability with reliable, high-speed, on-demand archival data service.”



**The FusionMicro Solution:
Five Photon Towers
Connected in Server Array**

- AMCC 3ware 9000 Series SATA RAID Controller
- Dual Intel Xeon 1.8GHz 512kb Cache Processor (up to 2.6GHz)
- Dual channel high end video cards
- Over five terabytes of storage
- 40 Gigabytes of memory

— Patrick Keவில்

Business Development Manager, AMCC Storage

Unmatched SATA-based RAID Storage Performance

Fusion Microsystems uses AMCC SATA RAID controllers for high-end data read and write processing in its end-user systems. Fusion’s systems may have data storage capacities in the terabyte range, serving 8-10 gigabytes of RAM per workstation. Such systems demand speed, scalability and RAID backup performance; an expensive proposition with older, more elaborate technologies such as SCSI drives.

The ability to deliver these high-performance designs cost-efficiently is a compelling advantage for any VAR bidding to design computer systems for real-time, mission-critical processes. Whether for forensic visualization or for real-time functions like airport security and flight control centers, AMCC 3ware SATA RAID-enabled systems deliver fast, reliable and affordable storage to high-end, multiple-processor workstations.

The Fusion + 3ware Solution

Fusion’s high-performance systems use AMCC 3ware multiport RAID controllers to combine high availability, greater bandwidth and greatly expanded data storage capacity.

AMCC is no stranger to multi-Terabyte data storage and access. 3ware 8 and 12-port controllers have proven that newly available, large SATA storage solutions more than meet the performance and availability requirements of traditional SAN environments — and do it at a tenth of the capital cost of older, SCSI-based storage technology.

AMCC reserves the right to make changes to its products, or to discontinue any product or service without notice, and advises its customers to obtain the latest version of relevant information to verify, before placing orders, that the information being relied upon is current.

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