



For APAC Immediate Release Only

Sapphire Introduces New AMD FireStream™ 9270 Graphics



[February 03, 2009, Taipei] The AMD FireStream™ 9270 is ATI Stream's flagship datacenter-class hardware solution, offering twice the double-precision floating point performance of competing offerings.* It is ideally suited for use in the customers who need to achieve ever higher performance-per-watt and performance-per-dollar. AMD FireStream™ 9270 was designed and tuned for professional environments and includes:

- Two gigabytes of Graphics Double Data Rate, version 5 memory (GDDR5), the most advanced graphics memory on the planet.
- AMD's latest graphics architecture delivering 1.2 TeraFLOPS of single-point precision performance -- the most available in a single-GPU solution today -- and over 240 GigaFLOPS of double-point precision performance.
- Optimal performance-per-watt capabilities.

*Based on comparison of the AMD FireStream™ 9270 stream processor vs. the Nvidia Tesla C1060 Computing Processor. The AMD FireStream™ 9270 delivers upwards of 240GFLOPS double precision floating point peak performance while the Tesla C1060 claims 78 GFLOPS double precision floating point peak performance based on published information.

Who needs AMD FireStream™?

AMD FireStream™ 9270 computes accelerator and the latest version of its free and open ATI Stream Software Development Kit (SDK), version 1.3. Both are designed to help researchers, technical professionals and IT organizations use mainstream computing platforms to address challenges that once would have required multi-million-dollar investments in proprietary hardware and software.

Why need AMD FireStream™?

"The demands of the high-performance datacenter are intense, with dramatic increases in problem complexity and size every year. Customers need to achieve ever higher performance-per-watt and

performance-per-dollar in order to address these problems with the same infrastructures. "Delivering two times the double-precision floating point performance of competing offerings, and armed with 2GB of ultra-fast, ultra-high bandwidth memory, the AMD FireStream™ 9270 is the ideal solution for dramatically accelerating technical applications." said Rick Bergman, senior vice president and general manager, Graphics Products Group, AMD.

ATI Stream SDK V1.3

Version 1.3 of the free ATI Stream™ SDK includes extensive enhancements to help ease development of ATI Stream-enabled applications capable of running on a broader range of AMD graphics hardware, including AMD FireStream™ 9270 and AMD FireStream™ 9250 compute accelerators, ATI FirePro™ V5700 and ATI FirePro™ V8700 workstation graphics accelerators, and ATI Radeon™ HD 4000 series graphics cards.

<http://ati.amd.com/technology/streamcomputing/sdkdwld.html>

For the AMD FireStream™ product (9270, 9250, 9170), SDK V1.3 requires AMD FireStream™ Unified Driver 8.561 or later to be installed on your system.

For the ATI FirePro™ and ATI Radeon™ products, SDK V1.3 requires ATI Catalyst 8.12 or later to be installed on your system.

ATI Stream™ software offers a complete top-down programming model ranging from the easily accessible Brook+, the implementation of the popular open source C-like Brook GPU programming language, to lower level performance turning through our CAL (Compute abstraction Layer) and IL (Intermediate Language) interfaces.

Partnering for Success

AMD and Aprius are bringing to market a 4RU chassis housing up to eight AMD FireStream™ 9270 stream processor, for up to a whopping 9.6 TeraFLOPS of processing horsepower, and 16GB of high speed GDDR5 memory. Dubbed the Aprius Computational Acceleration System, the chassis provides:

- Easy, in-rack installation and maintenance
- Transparent support for all OS environments
- New innovations in PCI-e optical cable that allows connections up to 50m in length.

AMD is also working closely with Brown Deer Technology, a company that provides consulting and software development services to clients solving complex and computationally challenging problems in high-performance computing.

"Using the ATI Stream SDK and Brook+ compiler, we've obtained GPGPU benchmarks on a range of algorithms, from electromagnetic and seismic wave solvers to particle-based calculations. These are important algorithms for modeling and simulation that impact wireless communication, oil and gas

exploration, and physics and chemistry research," said David Richie, president of Brown Deer Technology. "We've seen tremendous speed up, in some cases more than a 120x. The results have generated a lot of interest from customers."

Open Systems

Familiar 32 and 64 bit Linux and Microsoft windows environments

Open CL-ready technology

High level tools from multiple 3rd party developers

Availability

AMD FireStream™ 9270 compute accelerator will be available in end of Feb.

ATI Stream SDK v1.3 is available to be downloaded now and free of charge:

<http://ati.amd.com/technology/streamcomputing/sdkdwld.html>

Specification

Model Name	AMD FireStream 9270
Stream Core	800
Peak compute rate	1.2 TFLOPS(Single) 240 GFLOPS(Double)
Floating point formats	IEEE single & Double Precision
GPU local Memory	2GB GDDR5 SDRAM
Memory Interface	256-bit @ 850MHz
Peak Memory Bandwidth	108.8GB/s
System Interface	PCIeX16 Gen. 2
Auxiliary power connectors	Two 6-pin
Power Consumption	160watts typical, <220 watts peak
Board Dimension	112 x 242 mm Dual-Slot
Thermal Solution	Active fan-sink

For more information visit:

http://workstation.sapphiretech.com/presentation/products/products_detail.aspx?ProductID=38

AMD Stream Webpage: <http://www.amd.com/stream>.



SAPPHIRE About Sapphire

Sapphire Technology Ltd designs, manufactures and distributes the most complete range of ATI Radeon™ based video graphics accelerators worldwide. Additionally Sapphire produces mainboards based on AMD chipset technology. Sapphire is based in Hong Kong with two ISO9001 and ISO14001 manufacturing facilities in Dongguan, China. The factories have a total capacity of 1.8 million graphics boards per month. Sapphire currently employs over 3000 employees worldwide with local representation in North America, Europe, South Africa and Asia Pacific.

2007, Sapphire has been authorized to be the exclusive partner of AMD Workstation Graphics (ATI

FirePro™, ATI FireGL™, ATI FireMV™), and AMD FireStream™ in APAC except Japan. This great affirmation shows Sapphire's achievement and offering, Sapphire will provide best service to professional customer with the best workstation products.