SAPPHIRE Speeds in with HD 4890

Latest ATI-based graphics are fastest yet!

SAPPHIRE Technology, the leading manufacturer and worldwide supplier of AMD/ATI based graphics solutions is now adding two new models to its range of high end graphics cards.

The SAPPHIRE HD 4890 series is based on a new GPU core from the ATI division of AMD. This features the same architecture as the successful HD 4870 series, with 800 stream processor units, 256-bit GDDR5 memory interface and integral hardware video decoder. It also features improved memory management architecture, and technical innovations that allow higher clock speeds and reduce standby power levels.

The SAPPHIRE HD 4890 now delivers a significantly higher level of performance than the previous generation. Two models are available at launch – the standard model has clock speeds of 850MHz (core) and 975MHz (memory). The SAPPHIRE HD 4890 OC Edition offers a higher specification for the enthusiast with enhanced clock speeds of 901MHz (core) and 1000MHz memory, making it the fastest ATI-based single core graphics card on the market.

Both models use the PCI-Express Gen2 interface, and feature dual connectors for CrossFireX cables, allowing two or more cards to be used together on a CrossFireX compatible mainboard for even higher graphics performance.

SAPPHIRE will be announcing additional models in its HD 4890 series in the coming weeks.

All SAPPHIRE graphics cards in the HD 4800 series incorporate the latest ATI Avivo™ HD Technology for enhanced Video display and feature a new generation built in hardware UVD (Unified Video decoder) considerably reducing CPU load and delivering smooth decoding of Blu-ray™ and HD DVD content for both VC-1 and H.264 codecs, as well as Mpeg files. In addition to two, dual-link DVI outputs, and TV-Out, a dedicated HDMI adaptor delivers both audio and video output on a single cable for direct connection to an HDMI ready display.

SAPPHIRE HD 4800 series graphics cards are Microsoft Windows Vista™ Premium certified and supported by the ATI Catalyst® suite of software, ensuring customers have ongoing access to software updates for performance, stability and added features. Like the previous generation, these cards support DirectX10.1 for enhanced rendering performance and lighting effects.

Product comparison

GPU Type	HD 4870	HD 4890
Process	55nm	55nm
Transistors	956M	956M
Engine Clock (standard)	750MHz	850MHz
Stream Processors	800	800
Compute Performance	1.2 TFLOPs	1.36 TFLOPs
Texture Units	40	40
Texture Fillrate	30.0 GTexels/s	34.0 GTexels/s
ROPs	16	16
Pixel Fillrate	12.0 GPixels/s	13.6 GPixels/s
Z/Stencil	64	64
Z Fillrate	48.0 GSamples/s	54.4 GSamples/s
Memory Type	GDDR5	GDDR5
Memory Clock (standard)	900 MHz	975 MHz
Frame Buffer Size	512MB/1GB	1GB
Memory Data Rate	3.6 Gbps	3.9 Gbps
Memory Bus	256-bit	256-bit
Memory Bandwidth	115 GB/s	124.8 GB/s
Maximum Board Power	160 W	190 W
Idle Board Power	90W	60W

Images and more details are available at www.sapphiretech.com

Specifications correct at time of writing but may be subject to change.