NVIDIA® GeForce® 7950 GX2 | Sell Sheet
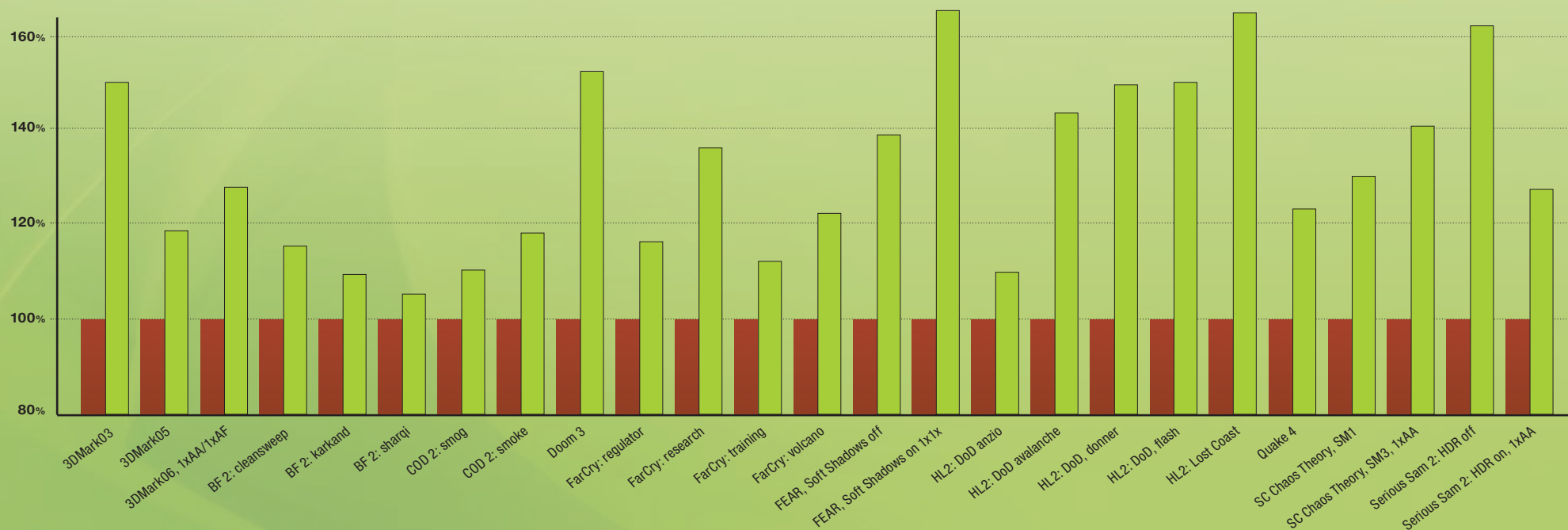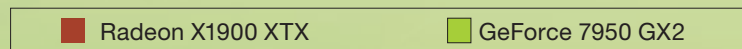
Product Segment: Enthusiast
Combines the power of two GeForce 7950 GPUs for mind-blowing gaming performance

Key Messages

- Designed for Extreme HD gaming
- Advanced visual effects engines deliver an ultra-realistic gaming experience and unparalleled image quality
- Provides high-definition home-theater quality video and full H.264 support for HD DVD and Blu-ray Disc drives using NVIDIA® PureVideo™ HD technology
- Enables a full Windows Vista Aero user experience

Product Segment

	nVIDIA	ATI
Enthusiast	GeForce 7950 GX2	
	GeForce 7900 GTX	Radeon® X1900 XTX Radeon X1900 XT
	GeForce 7900 GT	Radeon X1900 GT
Performance	GeForce 7600 GT	Radeon X1600 XT
	GeForce 7600 GS	Radeon X1600 Pro
Mainstream	GeForce 7300 GT	Radeon X1300 Pro
	GeForce 7300 GS	Radeon X1300 LE
	GeForce 7300 LE	Radeon X1300 LE
	GeForce 6500	Radeon X550
Value	GeForce 6200 TC/LE	Radeon X300 SE/HM

Performance Summary

The NVIDIA® GeForce® 7950 GX2 features a pair of GeForce processors on one powerful board. Resetting the bar for single card graphics performance with amazing 3D horsepower and speed, the GeForce 7950 GX2 enables a lightning-fast, hyper-realistic gaming experience with ultra-smooth frame rates. This dual-GPU board features an astounding 1 GB of fast GDDR3 memory and support for resolutions up to 2560 X 1600.

Performance comparison bar chart: Radeon X1900 XTX (baseline 100%) vs GeForce 7950 GX2 across benchmarks including 3DMark03, 3DMark05, 3DMark06 (1xAA/1xAF), BF 2: cleansweep, BF 2: karkand, BF 2: sharqi, COD 2: smog, COD 2: smoke, Doom 3, FarCry: regulator, FarCry: research, FarCry: training, FarCry: volcano, FEAR Soft Shadows off, FEAR Soft Shadows on 1x1x, HL2: DoD anzio, HL2: DoD avalanche, HL2: DoD, donner, HL2: DoD, flash, HL2: Lost Coast, Quake 4, SC Chaos Theory, SM1, SC Chaos Theory, SM3, 1xAA, Serious Sam 2: HDR off, Serious Sam 2: HDR on, 1xAA.

Tested on FX57 platform at resolutions of 1600 X 1200, 4xAA/8xAF unless otherwise specified. Drivers: rel90 and Cat 6.4.

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Product Comparison

	NVIDIA GeForce 7950 GX2	ATI Radeon X1900 XTX
Graphics Bus Technology	PCI Express	PCI Express
Number of GPUs	2	1
Process	90 nanometer	90 nanometer
Memory	1GB GDDR3	512MB GDDR3
Memory Interface	512-bit	256-bit
Core Clock	500MHz	650MHz
Memory Clock	600MHz	775 MHz
Pixel Pipes	48	16
Vertex Shader Units	16	8
Memory Bandwidth	76.8 GB/sec.	49.6 GB/sec.
Fill Rate	24B/sec.	10.4B/sec
Recommended Minimum Power Supply	400W	450W
Graphics Card Length	9 inches	9 inches
# of Slots (width)	2	2
RAMDACs	400 MHz	400 MHz
Maximum Analog Resolution	2048 x 1536	2048 X 1536
Maximum Digital Resolution	2560 x 1600	2560 X 1600

7950 GX2 Features and Benefits

Feature	Benefit
Full Microsoft® DirectX® 9.0 Shader Model 3.0 Support	The standard for today's PCs and next-generation consoles enables stunning and complex effects for cinematic realism.
NVIDIA® SLI™ Technology[1]	NVIDIA's revolutionary SLI[2] technology allows users to intelligently scale graphics performance by combining multiple NVIDIA graphics solutions in a single system with an NVIDIA nForce SLI MCP.
NVIDIA® CineFX® 4.0 Engine	Next-generation shader architecture with new texture unit design streamlines texture processing for faster and smoother gameplay.
True High Dynamic-Range (HDR) Rendering Support	Based on the OpenEXR technology from Industrial Light & Magic, the ultimate lighting effects bring environments to life for a truly immersive, ultra-realistic experience.
NVIDIA® PureVideo™ HD Technology[3]	The combination of high-definition video processors and decoder software delivers unprecedented picture clarity, smooth video, accurate color, and precise image scaling for all video content.
NVIDIA® ForceWare® Unified Driver Architecture (UDA)	Delivers a proven record of compatibility, reliability, and stability with the widest range of games and applications.
Built for Microsoft® Windows Vista™	NVIDIA's third-generation GPU architecture built for Windows Vista gives users the best possible experience with the 3D graphical user interface.
HDCP Capable[4]	Allows playback of HD-DVD, Blu-ray Disc, and other protected content at full HD resolutions with integrated High-bandwidth Digital Content Protection (HDCP) support.

1 NVIDIA SLI certified versions of GeForce PCI Express GPUs only.
2 See www.slizone.com for details.
3 Feature requires supported video software. Features may vary by product.
4 Requires other compatible components that are also HDCP capable.