NVIDIA® GeForce® 7950 GT | Sell Sheet
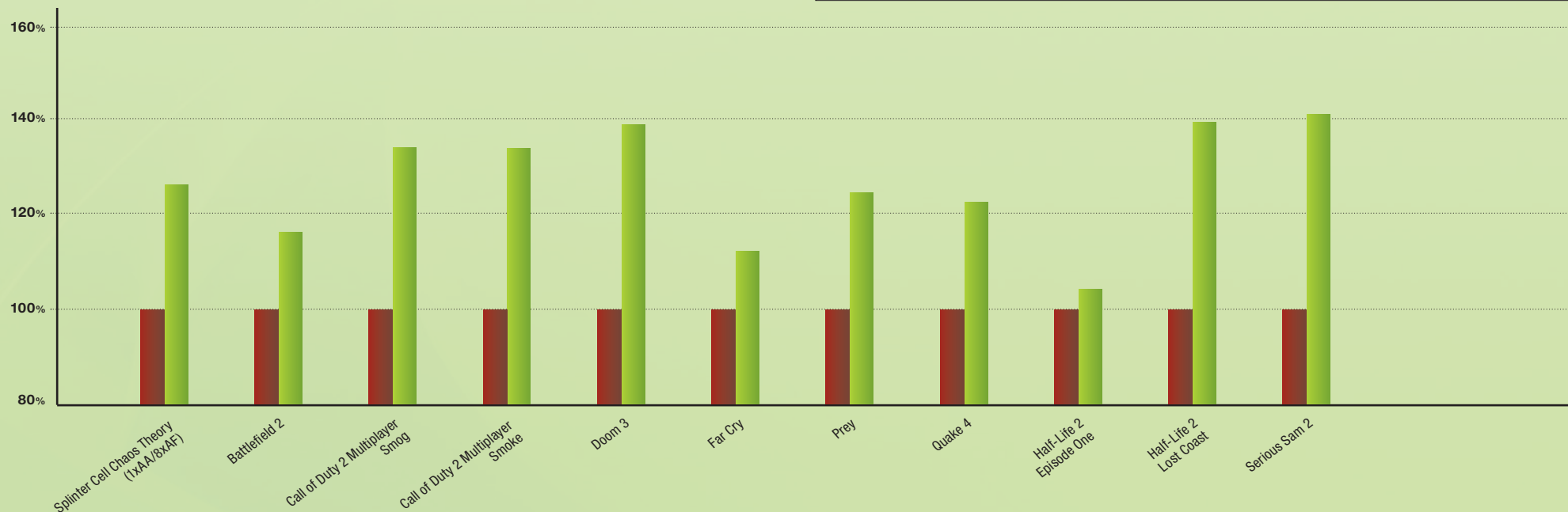
Product Segment: Enthusiast
Cranked up clock speeds and memory deliver breakneck performance

Key Messages

- 512 MB of memory for smooth frame rates at maximum settings
- 550 MHz core clock for exceptional speed and performance
- NVIDIA® PureVideo™ HD technology for full HD DVD and Blu-ray Disc™ playback
- Full support for HDCP and best in class H.264 acceleration

Performance Summary

NVIDIA® GeForce® 7950 GT GPUs deliver massive graphics power with a 256-bit memory interface and a whopping 512 MB of memory to enable exceptionally smooth frame rates at resolutions up to 2560 X 1600. Breakneck core clock speeds of 550 MHz enable blazing graphics performance while advanced NVIDIA® PureVideo™ HD technology provides fluid, high-definition video playback for the ultimate HD DVD and Blu-ray Disc™ experience and full HDCP[1] support.

Product Segment

	NVIDIA	ATI
Enthusiast	GeForce 7950 GX2	
	GeForce 7900 GTX	Radeon® X1900 XTX Radeon X1900 XT
	GeForce 7950 GT	Radeon X1900 GT
Performance	GeForce 7900 GS	Radeon X1800 GTO
	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 7100 GS GeForce 6500	Radeon X550
Value	GeForce 6200 TC/LE	Radeon X300 SE/HM

■ Radeon X1900 GT   ■ GeForce 7950 GT

All benchmarks at 1600x1200 resolution 4xAA/8xAF unless otherwise specified. Benchmarks obtained on a 2.67GHz Core 2 Duo Platform using Forceware 91.47 and Catalyst 6.8 Drivers

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Product Comparison

	NVIDIA GeForce 7950 GT	ATI Radeon X1900 GT
Graphics Bus Technology	PCI Express	PCI Express
Process	90 nanometer	90 nanometer
Memory	512MB GDDR3	256MB GDDR3
Memory Interface	256-bit	256-bit
Core Clock	550MHz	575MHz
Memory Clock	700MHz	600 MHz
Pixel Pipelines	24	12
Vertex Shader Units	8	8
Memory Bandwidth	44.8 GB/sec.	38.4 GB/sec.
Fill Rate	13.2 B texels/sec	6.9 B texels/sec
Recommended Minimum Power Supply	350W	450W
Graphics Card Length	9 inches	9 inches
# of Slots (width)	1	1
RAMDACs	400 MHz	400 MHz
Maximum Analog Resolution	2048 x 1536	2048 X 1536
Maximum Digital Resolution	2560 x 1600	2560 X 1600

7950 GT 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[2]	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[1]	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 Requires other compatible components that are also HDCP capable.
2 NVIDIA SLI certified versions of GeForce PCI Express GPUs only.
3 Feature requires supported video software. Features may vary by product.