

8/12MB

Awesome Gaming with 3Dfx Voodoo²!



STB presents the ultimate in dedicated 3D processing for gaming and entertainment titles with the new BLACKMAGIC 3D™ adapter. BLACKMAGIC 3D features plenty of high speed EDO DRAM for displaying the latest Direct3D and GLide titles with awesome frame rates with plenty left over for complex texture transfers. There's even the option to add a second BLACKMAGIC 3D card for up to double performance and even higher supported resolutions.

Preliminary Specifications

WINNING PERFORMANCE

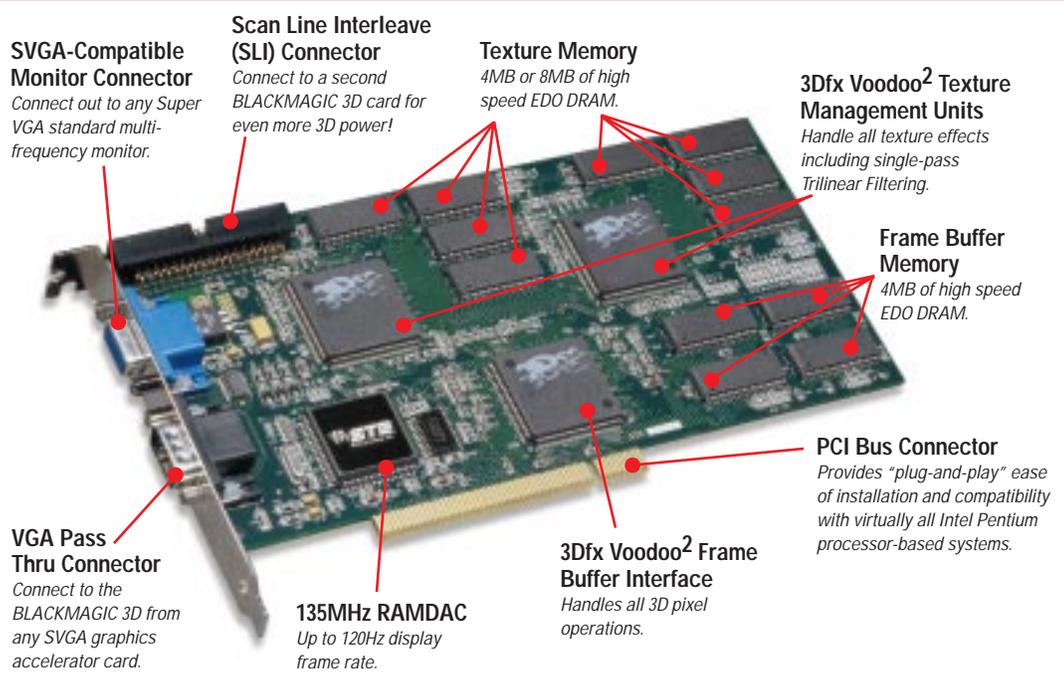
- 3Dfx Voodoo² Chipset with Dual Texture Engines
- 8MB or 12MB of High Performance EDO DRAM
- 4MB Frame Buffer Memory & 4MB or 8MB of Texture Processing Buffer
- Up to 800x600 Resolution with Full Hardware 3D Acceleration
- Plays Direct3D and GLide Titles
- Compatible with Any SVGA Multimedia Accelerator

BLACKMAGIC 3D
Powered by Voodoo²



POWERFUL FEATURES

- 8MB or 12MB of high performance EDO DRAM
- Based on 3Dfx Voodoo² chipset with dual texture engines for an incredible 180 megatexel (bilinear MIP-map textured pixel) fill rate, even higher in dual BLACKMAGIC 3D configuration
- Full Direct3D hardware acceleration including single-pass bilinear and trilinear MIP-map and Triple Buffering with Z
- Compatible with 3Dfx GLide API titles with full hardware acceleration
- SLI (Scan Line Interleave) connector and supplied cable to connect a second BLACKMAGIC 3D adapter (in adjacent PCI slot) for up to double the 3D processing power
- SVGA loopback cable included, compatible with any SVGA multimedia accelerator



3D WinBench 98 Quality Test Hardware Comparison	STB BLACKMAGIC 3D PCI	ATI Expert@Play PCI	MATROX Millennium II PCI (8MB)	MATROX m3D PCI	CREATIVE LABS Blaster Extreme 3D PCI (4MB)
Gouraud Shading	Yes	Yes	Yes	Yes	Yes
Z-Buffer	Yes	Yes	Yes	Yes	Yes
Perspective Correction	Yes	Yes	Yes	Yes	Yes
Nearest MIPMAP Nearest	Yes	Yes	—	Incorrect	Yes
Nearest MIPMAP Linear	Yes	Yes	—	Yes	Yes
Linear MIPMAP Nearest	Yes	Yes	—	Yes	Incorrect
Linear MIPMAP Linear	Yes	Yes	—	—	Incorrect
Decal Texture Blending	Yes	Yes	Yes	—	Yes
Decal Alpha Texture Blending	Yes	Yes	—	—	Yes
Modulate Alpha Texture Blending	Yes	—	—	Yes	Yes
Flat Wrap Texture Addressing	Yes	Yes	Yes	Yes	Yes
Clamp Texture Addressing	Yes	Yes	Incorrect	—	Incorrect
Cull Counterclockwise	Yes	Yes	Yes	Yes	Yes
Cull Clockwise	Yes	Yes	Yes	—	Yes
Cull None	Yes	Yes	Yes	Yes	Yes
Fog Table Linear	Yes	—	—	—	—
Fog Table Exponential	Yes	—	—	—	—
Specular Highlights	Yes	Yes	Incorrect	Yes	Yes
Alpha Transparency	Yes	Yes	—	Yes	Yes
Source Alpha Transparency	Yes	Yes	—	Yes	Yes
Add Pixel Blending	Yes	Yes	—	—	Incorrect
Modulate Pixel Blending	Yes	Yes	—	—	—
Alpha Vertices	Yes	Yes	—	—	—
Fog Vertex and Alpha	Yes	Yes	—	Yes	Yes
Texture Swapping	Yes	Yes	Yes	Incorrect	Yes
High Triangle Count	Yes	Yes	Yes	Incorrect	Yes
Texture Fidelity	Yes	Yes	Yes	Yes	Yes

Yes = performs test correctly — = does not perform test Incorrect = performs test, but displays incorrectly

REFRESH RATES (Hz)

Mode Resolutions	16bpp/Double Buffer (no Z)	16bpp/Double Buffer (with Z)	24bpp/Triple Buffer (no Z)	24bpp/Triple Buffer (with Z)
512x384*	60/72*, 75, 85, 120	60/72*, 75, 85, 120	60/72*, 75, 85, 120	60/72*, 75, 85, 120
640x400	60, 70, 85, 120	60, 70, 85, 120	60, 70, 85, 120	60, 70, 85, 120
640x480	60, 75, 85, 120	60, 75, 85, 120	60, 75, 85, 120	60, 75, 85, 120
800x600	60, 75, 85, 120	60, 75, 85, 120	60, 75, 85, 120	60, 75, 85, 120
1024x768**	60, 75, 85	60, 75, 85	—	—

*72Hz used in place of 60Hz when running in an SLI configuration (2 cards in one system) at 512x384 mode. **The 1024x768 display modes are only available in SLI configuration.



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