

Fire GL

Ultimate 2D/3D Graphics for Windows NT

- **Hardware Texture Mapping**
- **Hardware Double-Buffering**
- **Up to 600K Triangles per Second**
- **Accelerates Graphics and Video for Windows® NT and Windows® 95**
- **Accelerates Open GL, Heidi, and Direct 3D API's**

The Diamond Fire GL 1000 is the next generation, highly integrated graphics accelerator that brings the ultimate in 2D/3D graphics plus video acceleration to the Windows NT or Windows 95 graphical environment.

Available with either 4MB or 8MB of high performance 64-bit SGRAM memory, the new Fire GL 1000 provides the best in 3D double-buffered graphics, 2D true-color graphics plus video acceleration all in one

economical PCI 2.1 compliant package. Based on a dual processor design, the Fire GL 1000 incorporates two graphics chip from 3Dlabs: the Permedia NT rendering engine and the GLINT Delta geometry setup engine.

Now you can get fast double-buffered 3D graphics, true-color 2D graphics and video acceleration combined in one powerful yet affordable package from Diamond Multimedia.

Fire GL

Ultimate 2D/3D Graphics
for Windows NT

ULTIMATE 2D/3D PERFORMANCE

Now playing on a Windows computer screen near you!
Diamond's Fire GL 1000 offers the ultimate in 2D/3D true-color double buffered graphics plus video acceleration for the best Windows performance yet!

MAXIMIZE YOUR 3D PERFORMANCE

Open GL Benchmark
Viewperf (CDRS 03) at 1024x768x15bpp

DIAMOND Fire GL 1000



Dynamic Pictures Oxygen 102



MATROX MGA Millennium™



VIDEO MODES SUPPORTED

Fire GL 1000 supports ergonomic high-refresh monitor rates.

Resolution	Colors	Horizontal Freq (KHz)	Refresh Rate (Hz)	Memory Req'd (MB)
1600x1200	65K	75-94	60-75	8
	32K	75-94	60-75	8
	256	75-94	60-75	8
1280x1024	65K	63.6-108	75-100	8
	32K	63.6-108	75-100	8
	256	63.6-108	75-100	8
1152x870	16.7M	55.1-68	60-75	8
	65K	55.1-110	60-120	8
	32K	55.1-110	60-120	8
	256	55.1-110	60-120	4
1024x768	16.7M	48.2-68	60-85	8
	65K	48.2-95	60-120	8
	32K	48.2-95	60-120	8
	256	48.2-95	60-120	4
800x600	16.7M	38.4-76.8	60-120	4
	65K	37.6-76.8	60-120	8
	32K	37.6-76.8	60-120	4
	256	37.6-76.8	60-120	4
640x480	16.7M	31.5-63	60-120	4
	65K	31.5-63	60-120	4
	32K	31.5-63	60-120	4
	256	31.5-63	60-120	4

MODELS AVAILABLE

- The Fire GL 1000 is available in two memory configurations:
- 4MB SGRAM upgradable to 8MB
 - 8MB SGRAM model available for increased display resolution and rendering performance

PRODUCT SPECIFICATIONS

Controller:

- Dual processor architecture features:
 - 3Dlabs' PERMEDIA 3D rendering engine
 - 3Dlabs' GLINT Delta PCI bridge & geometry setup engine

Memory:

- 4MB Upgradable to 8MB of fast 64-bit SGRAM memory for flexible double buffering & texture storage

Horizontal Sync Signals:

- 31.5-110KHz

Vertical Refresh:

- 60-120Hz

Maximum Dot Rate:

- 220MHz

Connectors:

- One standard DB-15 video output

HARDWARE FEATURES

- 3Dlabs PERMEDIA NT 2D & 3D Open GL accelerator
- 3Dlabs GLINT Delta PCI bridge & geometry processor
- 64-bit fast, state of the art SGRAM video memory interface
- 220MHz RAMDAC dot rate
- Hardware texture mapping
- Double buffering and overlays
- XY video scaling and filtering
- YUV to RGB color conversion
- Chroma-key and 3D sprite support
- PCI 2.1 bus interface
- Integrated VGA

SOFTWARE FEATURES

- Accelerates Direct 3D, Open GL and Heidi 3D API's
- Windows NT 3.51 and 4.0 drivers with Open GL support
- Windows 95 drivers including Diamond InControl Tools 95 and Direct 3D support
- Big Focus for AutoCAD 13 NT-display list driver from Diamond
- 3D Win-3D viewer for AutoCAD from Diamond
- 100% Open GL compatible
- Supports Heidi from Kinetix/Autodesk
- Optimized for these professional applications:
 - 3D Studio MAX
 - AVS/Express
 - AutoCAD
 - Hash Animation
 - Lightscape
 - Lightwave 3D
 - Microstation 95
 - Open Inventor
 - Pro/Engineer
 - Sense 8 World Toolkit
 - Softimage NT



BUILT TO LAST

Warranty and Service: Diamond's Fire GL 1000 is backed by a three-year parts and labor warranty upon registration. Technical assistance is available by phone six days a week and through our 24-hour BBS. Diamond also maintains an Internet Web Server and FTP site.

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