E&S Lightning 1200™

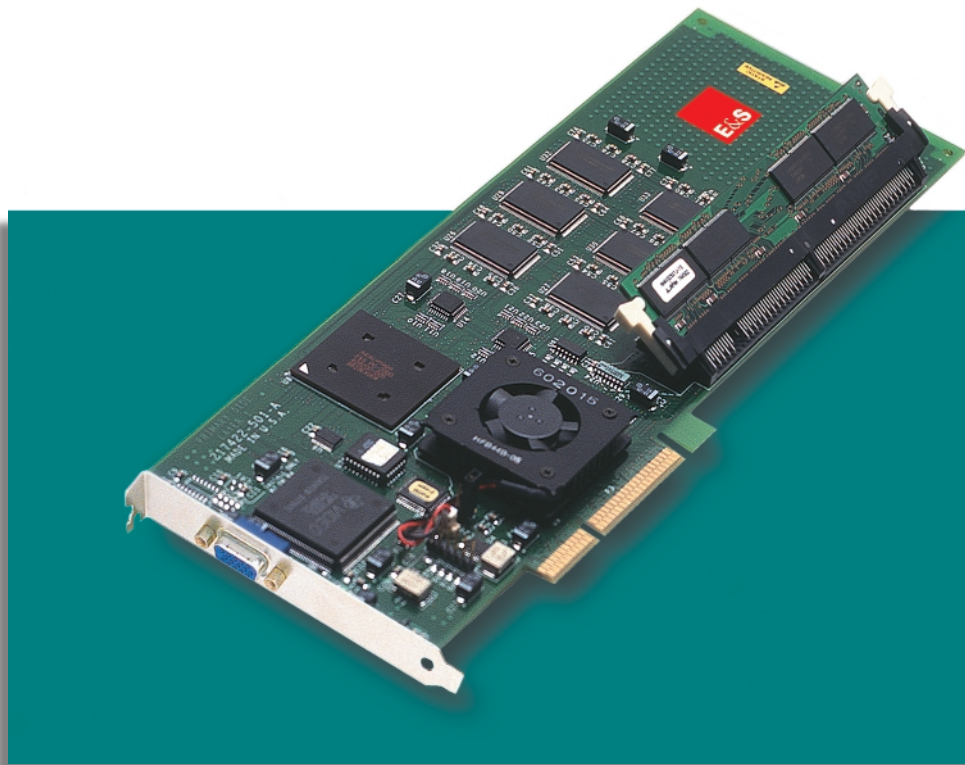## EVANS & SUTHERLAND

Cost-Effective 3D Solution for Design Professionals

■ DYNAMICgeometry™ for scalable performance

■ Highest quality, full-speed antialiasing and transparency

■ Pentium® III-ready

■ Up to 4 million triangles per second

■ 70 million textured pixels per second

■ 31 MB of smart 3D memory

3D with a REAL difference™

EVANS & SUTHERLAND

E&S Lightning 1200™

E&S Lightning 1200™ Specifications

GRAPHIC FEATURES AVAILABLE SIMULTANEOUSLY

- Gouraud shading
- Alpha blending for transparency
- High-quality antialiasing
- Texture:
  - -Bilinear, trilinear filtering
  - -Perspective correction
  - -MIP mapping
- Per-pixel depth cueing
- Transparency, fog, overlays, and stencils

SOFTWARE SUPPORT

- OpenGL

OPERATING SYSTEM SUPPORT

- Microsoft Windows NT® 4.0
- Microsoft Windows 2000
- Linux (E&S Lightning 1200 LX only)

GRAPHICS PERFORMANCE[1,2]

- 3D vectors[3]   4M/sec
- 3D triangles[4]   4M/sec
- Texture fill rate   70M pixels/sec
- Nontexture fill rate   90M pixels/sec

1. All performance rates are with 1280 x 1024 resolution @85Hz, and 24-bit truecolor.
2. Performance may vary by CPU and bus implementation.
3. 3D vectors are 10 pixels, antialiased with 16-subpixel positioning accuracy.
4. 3D triangles are Gouraud-shaded, textured, alpha-blended, and Z-buffered.

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HARDWARE FEATURES

- E&S REALimage® 1200 technology
- Built-in VGA support
- 8-bit, double-buffered overlay or alpha
- Stencil planes (4-bit)
- Window IDs (4-bit)
- AGP 2X interface

TOTAL MEMORY

- 15MB 3DRAM (frame & local buffer)
- 16MB CDRAM (texture)

SYSTEM REQUIREMENTS

- 100% IBM-compatible PC with an Intel Pentium®II or Pentium®III processor
- One available AGP slot
- Power consumption <25W

SERVICE AND SUPPORT

- High-quality technical support via a select group of VARs and system manufacturers

- Direct support line
- Web site access to software driver updates and technical support

COMPATIBILITY

- UL 1950. Certified FCC Class B. CE Mark

WARRANTY

- Three years (parts and labor)

SUPPORTED DISPLAY MODES FOR WINDOWS NT AND WINDOWS 2000

Single-screen modes				
Resolution	Color Depth	Z-buffer	Texture Memory	Refresh Rate Hz
640 x 480	24-bit	24-bit	16 MB	72, 75, 85, 120
800 x 600	24-bit	24-bit	16 MB	60, 75, 85, 120
1024 x 768	24-bit	24-bit	16 MB	60, 75, 85, 120
1280 x 1024	24-bit	24-bit	16 MB	60, 75, 85

SUPPORTED DISPLAY MODES LINUX (E&S LIGHTNING 1200 LX ONLY)

Single-screen modes				
Resolution	Color Depth	Z-buffer	Texture Memory	Refresh Rate Hz
640 x 480	24-bit	24-bit	16 MB	72, 75, 85, 120
800 x 600	24-bit	24-bit	16 MB	60, 75, 85, 120
1024 x 768	24-bit	24-bit	16 MB	60, 75, 85, 120
1152 x 864	24-bit	24-bit	16 MB	60, 75, 85,
1280 x 1024	24-bit	24-bit	16 MB	60, 75, 85

Linux

For more information, visit our web site at www.es.com/wg.