

### MODELS

#### ELSA GLoria II (AGP) Graphics Controller 174566-B21

The ELSA GLoria™ II Graphics Controller offered by Compaq is a powerful, high performance 3D graphics solution for Professional 3D users. Key features include:

- Uncompromising performance
- AGP 2X/4X support
- 64 MB unified frame buffer

### Overview

The ELSA GLoria II (AGP) Graphics Controller is a powerful, high performance 3D graphics solution for Professional 3D users who require a rich feature set and the best balance of price and performance. Based upon industry leading chip technology, the Quadro™ Graphics Processing Unit (GPU) from NVIDIA®, the ELSA GLoria II offers many key features including: uncompromising performance, AGP 2X/4X support, high-resolution support in true color mode, optimized OpenGL drivers, and a unified frame buffer with 64 MB of SDRAM. This unified frame buffer has the ability to support up to 24-bits double buffered with a 24-bit Z-buffer, 8-bit double buffered overlay planes, 8-bit double buffered alpha planes, and 8 stencil planes simultaneously. In addition, a large portion of this unified frame buffer can be allocated as texture memory. The ELSA GLoria II is targeted at CAD, CAM, DCC, and GIS, solids modeling and visual data analysis applications.

### Performance

The ELSA GLoria II delivers exceptional performance and a rich feature set by combining the powerful Quadro processor, which includes a QuadPipe Rendering Engine and Independent Pipelined QuadEngine™ architecture, as well as ELSA's optimized driver and application suite. The Quadro processor is capable of processing the entire 3D pipeline and offers advanced features such as anti-aliased points and lines and two sided lighting, therefore, maximizing performance and quality. The 256 bit QuadPipe Rendering Engine supports four independent pixel-rendering pipelines providing excellent color quality and texturing special effects at increased frame rates. In addition, the Independent Pipelined QuadEngine architecture is highly efficient as it is utilized to process the entire 3D pipeline, decreasing overhead and allowing for maximum performance.

The superb performance of the Quadro™ processor and ELSA's robust OpenGL ICD, POWERdraft drivers, ELSAview3D and MAXtreme support, make the GLoria II the most powerful Professional 2D/3D solution available. In addition, the ELSA GLoria II supports AGP 2X and 4X, 64 MB of unified memory, and a 350-MHz RAMDAC for optimal performance and functionality.

### Functionality and Uses

The ELSA GLoria II offered by Compaq is an excellent solution for workstation professionals running CAD, CAM, DCC, GIS, solids modeling and visualization applications. With a unified frame buffer consisting of 64 MB of memory, the GLoria II is capable of supporting resolutions as high as 1920 x 1200 in 24-bit double-buffered mode with a 24-bit Z-buffer, in conjunction with stencil planes, overlay planes, alpha planes and hardware texturing capabilities. These capabilities allow the display of very realistic images.

The ELSA GLoria II offers a rich OpenGL implementation that has been optimized for and tested with numerous workstation applications. ELSA has also provided a multitude of software tools and utilities that enhance the functionality of the GLoria II making ELSA's solution an excellent 2D performer and a highly robust Professional 3D offering. POWERdraft is a 2D-display list driver for AutoCAD that offers unparalleled performance and an easy-to-use navigation interface that increases productivity. ELSAview 3D is a real-time editing and viewing tool for 3D CAD models that assists in increasing productivity by allowing users to view and edit 3D models without the burden of having to run the full application. MAXtreme is a driver that is specialized to increase performance for Discreet MAX users.

Combining the powerful Quadro processor with ELSA's enhanced software package provides an excellent solution for CAD applications, such as PTC Pro/ENGINEER, EDS Unigraphics, and Dassault Catia, as well as DCC applications, such as Discreet MAX and Softimage 3D.

### Quality and Compatibility

Compaq has a solid reputation for delivering high-quality, reliable enhancement products.

Compaq enhancement products are designed and tested to rigorous specifications, including tough qualification requirements for suppliers, stringent performance specifications, and a thorough testing process to ensure consistent quality from prototype to production.

### Service and Support

The ELSA GLoria II Graphics Controller carries either a one-year warranty or the remainder of the warranty period for the Compaq unit in which it is installed, whichever is longer.

Round-the-clock support is offered by Compaq's 24x7 technical support hotline, and on-line support forums are available on the Internet.

# QUICKSPECS

*ELSA GLoria II  
Graphics Controller*

## Technical Specifications

*ELSA GLoria II  
Graphics Controller*

<b>Dimensions (H x W)</b>	3.25 x 6.25 in/8.3 x 15.9 cm (does not include connector)		
<b>Resolution</b>	<b>Maximum Colors Supported</b>	<b>Maximum Refresh Rate</b>	<b>Memory Dedicated to Texture Support</b>
640 x 480	16.7M	120 Hz	60 MB
800 x 600	16.7M	120 Hz	58 MB
1024 x 768	16.7M	120 Hz	54 MB
1152 x 864	16.7M	100 Hz	52 MB
1280 x 800	16.7M	100 Hz	52 MB
1280 x 960	16.7M	100 Hz	49 MB
1280 x 1024	16.7M	100 Hz	48 MB
1600 x 1000	16.7M	100 Hz*	45 MB
1600 x 1000	16.7M	85 Hz	45 MB
1600 x 1200	16.7M	85 Hz	41 MB
1600 x 1280	16.7M	85 Hz*	40 MB
1600 x 1280	16.7M	75 Hz	40 MB
1920 x 1080	16.7M	85 Hz*	39 MB
1920 x 1080	16.7M	75 Hz	39 MB
1920 x 1200	16.7M	85 Hz*	37 MB
1920 x 1200	16.7M	75 Hz	37 MB
2048 x 1536	16.7M	75 Hz*	27 MB

\*Refresh rate may function but may not officially be supported by Compaq monitors.

<b>3D/ Controller</b>	NVIDIA Quadro
<b>VGA Controller</b>	Integrated
<b>Bus Type</b>	AGP 2X/4X
<b>RAMDAC</b>	Integrated 350 MHz
<b>Memory Type</b>	SDRAM
<b>Memory Amount</b>	64 MB (unified)
<b>Memory Speed</b>	166 MHz
<b>Controller Clock Speed</b>	135 MHz
<b>Color Planes</b>	24-bit double buffered
<b>Overlay Planes</b>	8-bit double buffered
<b>Stencil Planes</b>	8-bit
<b>Alpha Planes</b>	8-bit double buffered
<b>Z-buffer</b>	24-bit
<b>Total bits/pixel</b>	112
<b>Maximum Vertical Refresh Rate</b>	132 Hz
<b>Maximum Pixel Clock</b>	350 MHz
<b>Multi-display support</b>	No
<b>Stereo support</b>	Available Spring 2000
<b>Operating Systems</b>	Windows NT 4.0
<b>Products Supported</b>	AP250, AP550, SP750

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