

### MODELS

#### ELSA Synergy II (AGP) Graphics Controller 103382-B21

The ELSA Synergy II (AGP) Graphics Controller offered by Compaq is a robust 2D and entry 3D solution that provides leadership performance at an affordable price.

Key features include:

- High resolution support
- Optimized 2D and 3D OpenGL drivers
- 32 MB of SDRAM

### Overview

The ELSA Synergy II (AGP) Graphics Controller offered by Compaq is a robust 2D and entry 3D solution that provides leadership performance at an affordable price. Key features include high-resolution support in true color mode, optimized 2D and 3D OpenGL drivers, and a unified frame buffer with 32 MB of SDRAM. This unified frame buffer has the ability to support up to 24-bits double buffered with a 24-bit Z-buffer and 8 stencil planes. In addition, a portion of this unified frame buffer can be allocated as texture memory. The ELSA Synergy II is targeted at entry CAD applications; cost-conscious, high-end CAD application users; GIS professionals; and 2D and 3D DCC application users.

### Performance

The ELSA Synergy II delivers leadership performance by combining the powerful RIVA TNT 2 processor from nVidia with ELSA's optimized driver and application suite.

From the raw horsepower of the Twin-Texel TNT 2 128-bit processor to ELSA's robust OpenGL ICD, POWERdraft drivers, ELSAview3D and MAXtreme support, the Synergy II is the most robust entry 3D solution available. In addition, the ELSA Synergy II supports AGP 2X and 4X, 32 MB of memory, and a 300-MHz RAMDAC for optimal performance and functionality.

### Functionality and Uses

The ELSA Synergy II offered by Compaq is an excellent solution for workstation professionals running CAD, DCC, and GIS applications. With a unified frame buffer consisting of 32 MB of memory, the Synergy II is capable of supporting resolutions as high as 1920 x 1200 in 24-bit double-buffered mode with a 24-bit Z-buffer, 8 stencil planes, and hardware texturing capabilities allowing the display of very realistic images.

The ELSA Synergy II offers a rich OpenGL implementation including hardware triangle setup, texture blending support, and full scene anti-aliasing, as well as an OpenGL software 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 Synergy II making ELSA's solution the most robust entry 3D offering in the industry. 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. In addition, the Synergy II OpenGL driver is optimized to take advantage of SIMD for increased performance. All drivers and enhanced software, including *POWERdraft*, *ELSAview*, and *MAXtreme*, can be found on the Compaq web site at: [www.compaq.com/support/files/workstations/us/index.html](http://www.compaq.com/support/files/workstations/us/index.html).

Combining the powerful RIVA TNT 2 processor with ELSA's enhanced software package provides an excellent solution for CAD applications, such as Autodesk AutoCAD and PTC Pro/ENGINEER, as well as DCC applications, such as Discreet MAX, Discreet Edit, and NewTek Lightwave 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 Synergy 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 Synergy II*  
Graphics Controller

## ELSA Synergy II (AGP) 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	29.1 MB
800 x 600	16.7M	120 Hz	27.1 MB
1024 x 768	16.7M	120 Hz	23.5 MB
1152 x 864	16.7M	120 Hz	21.1 MB
1280 x 1024	16.7M	120 Hz	17.9 MB
1600 x 1000	16.7M	75 Hz	14 MB
1600 x 1000	65K	85 Hz	14 MB
1600 x 1200	16.7M	75 Hz	10.2 MB
1600 x 1200	65K	85 Hz	10.2 MB
1600 x 1280	16.7M	75 Hz	8.7 MB
1600 x 1280	65K	85 Hz	8.7 MB
1920 x 1080	16.7M	75 Hz	8.4 MB
1920 x 1080	65K	85 Hz	8.4 MB
1920 x 1200	16.7M	75 Hz	5.7 MB
1920 x 1200	65K	75 Hz	5.7 MB
<b>3D/2D Controller</b>	Nvidia TNT 2		
<b>VGA Controller</b>	Integrated		
<b>Bus Type</b>	AGP 2X/4X (ATX and NLX)		
<b>RAMDAC</b>	Integrated 300 MHz		
<b>Memory Type</b>	SDRAM		
<b>Memory Amount</b>	32 MB (Maximum)		
<b>Memory Speed</b>	143 MHz		
<b>Controller Clock Speed</b>	125 MHz		
<b>Color Planes</b>	24 bits double buffered		
<b>Stencil Planes</b>	8 bit		
<b>Alpha Planes</b>	0		
<b>Z-buffer</b>	24 bit		
<b>Total bits/pixel</b>	96		
<b>Maximum Vertical Refresh Rate</b>	120 Hz		
<b>Maximum Pixel Clock</b>	300 MHz		
<b>Multi-display support</b>	No		
<b>Operating Systems</b>	Windows NT 4.0, Windows 95, Windows 98		
<b>Products Supported</b>	Compaq Professional Workstations AP200 (Pentium III processor), AP400 (Pentium III processor), AP500 (Pentium III processor), AP550, SP700, SP750, and Compaq Deskpro Workstations AP240 (820 chipset) and AP250		

NOTE: All drivers and enhanced software, including *POWERdraft*, *ELSAview*, and *MAXtreme*, can be found on the Compaq web site at: [www.compaq.com/support/files/workstations/us/index.html](http://www.compaq.com/support/files/workstations/us/index.html).