Matrox Millennium G400 (AGP) Graphics Controller 158358-B21 (Single Display)

Matrox Millennium G400 DualHead (AGP) Graphics Controller

159512-B21 (Dual Display)

QUICKSPECS

Overview

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The Matrox Millennium G400 AGP graphics accelerator draws upon the established excellence of previous generation Matrox graphics and raises the bar on 2D graphics performance and features. In the most demanding professional and business applications, these controllers combine superior performance, image quality, and support for new graphics processing techniques in one easy-to-use, easy to install solution. The new Matrox G400 delivers exceptional 2D performance, providing a compelling alternative to the Matrox Millennium G200 and for customers seeking Matrox performance and stability or optional digital display support. The Matrox Millennium G400 DualHead provides the most powerful multi-display 2D on the market today, and is the best choice for customers powering two analog displays from a single AGP controller.

Performance

The new 256-bit DualBus design implements two independent 128-bit buses operating in parallel inside the Matrox G400 chip. To complement the lightening-fast 256-bit DualBus and create a well-balanced performance design, the Matrox G400 also employs a full 128-bit interface to memory. Finally, the Matrox G400 controller is powered by a high performance 300MHz RAMDAC for the sharpest, most responsive displays possible.

Functionality and Uses

The Matrox Millennium G400s are high-quality graphics controllers that deliver outstanding performance in 2D, GDI and DirectDraw and Direct3D applications for business users and professional 2D/3D designers.

The graphics controllers have an advanced 3D rendering engine that takes advantage of the latest Microsoft graphics APIs to achieve fast single pass multi-texturing with 32-bit rendering, 32-bit textures, 32-bit Z-buffer with 8-bit stencil, and full AGP texturing. Fitted with 16MB of high-speed video memory, the Matrox Millennium G400 provides fast, crisp displays with a 300MHz RAMDAC.

Matrox' new Vibrant Color Quality 2 (VCQ²) features ensure superior image quality and rendering precision for CAD, web-site development and much more.

The single display controller is the best 2D graphics accelerator available today. It also offers superior flexibility and advanced features. It has additional digital output available when coupled with the optional DVI Daughter Board.

The DualHead dual display controller supports simultaneous independent output of different images to two display screens using the same graphics chip, providing the most flexible, highest performance graphics solution for customers that require the large visual field available with two displays. Customers that require more than two displays should opt for the Matrox G200 Quad MMS graphics controller.

Quality and Compatibility

Compaq has a solid reputation for delivering high-quality, reliable products. Compaq 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 Matrox Millennium G400 Graphics Controller carries the longer of either a one-year warranty or the remainder of the warranty period for the Compaq unit in which it is installed. Compaq offers a 7 x 24 technical support forum on the Internet.

SPECIFICATIONS

Form Factor	
Single Display	NLX, ATX
Dual Display	ATX only
Interface	AGP
Standard Memory	16MB SGRAM
DAC Speed	300MHz
Data Path	128-bit External/256-bit Internal
Color Space Conversion	Yes
Scaling	Yes
Quick Draw Support	Yes
DCI & DirectX Video Playback	Yes
MS DirectDraw Support	Yes
3D Support	Yes

QUICKSPECS

Engine Acceleration		3 ROP bitBLT				
·		Line Draw				
		Text				
		Color Expansion				
		Basic Video Color Conversion and Scaling				
		Triangle Setup Eng	gine			
Output						
Single Display	Single Display		Analog, digital available with DVI daughter board			
Dual Display		Analog, 2 ports				
OS Support		OS/2, Windows 3.1, Windows 95, Windows 98, Windows NT 3.51, and Windows NT 4.0				
Other		PCI bus mastering	q			
		Texture mapping support				
		Flat and Gouraud shading				
		Direct 3D support				
		Anisotropic Filter				
		Perspective texture				
		Specular highlighting				
		Wireframe				
		Dithering				
		Full scene anti-aliasing				
		OpenGL support				
		Vertex fog Dual Texture Mapping				
		Environment Bump Mapping AGP 2X/4X with Sideband Addressing				
Refresh Rate with Me	emory Indicated	With 16 MB SGRAM				
Colors		256 Colors	65K Colors	16.7M Colors		
	640 x 480	85 Hz	85 Hz	85 Hz		
	800 x 600	85 Hz	85 Hz	85 Hz		
	1024 x 768	85 Hz	85 Hz	85 Hz		
	1152 x 864	85 Hz	85 Hz	85 Hz		
	1280 x 1024	85 Hz	85 Hz	85 Hz		
	1600 x 1200	85 Hz	85 Hz	85 Hz		
	1800 x 1440	85 Hz	85 Hz	85 Hz		
	1800 x 1440	85 Hz	85 Hz	85 Hz		
	1920 x 1080	85 Hz	85 Hz	85 Hz		
	1920 x 1440	75 Hz	75 Hz	75 Hz		
	2048 x 1536	65 Hz	65 Hz	65 Hz		
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COMPATIBIL Single Display	ΙΤΥ	and BX chipset, C	Compaq Professi Deskpro Workst	ional Workstations AP550 ar ation AP240 (820 chipset),		
COMPATIBIL Single Display Dual Display	ΙΤΥ	and BX chipset, C SP750, Compaq and Compaq Des	Compaq Professi Deskpro Workst kpro Workstation onal Workstation	n AP250 ns AP200, AP550 and SP75		