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MODELS

Matrox G200 Quad Multi-Monitor Series (MMS) Graphics Controller

159513-B21 (includes cables for analog output)

Matrox G200 Quad Multi-Monitor Series (MMS) Graphics Controller

179597-B21 (includes cables for DVI output)

Matrox G200 Quad MMS DVI upgrade cable kit

170840-B21 (supports up to four DVI digital displays per kit when combined with controller part number 159513-B21)

OVERVIEW

The Matrox G200 Quad Multi-Monitor Series (MMS) PCI graphics accelerator draws upon the established excellence of previous generation Matrox multi-display graphics solutions for Compaq workstation users. The G200 Quad MMS delivers significantly increased 2D graphics performance and an impressive arsenal of next-generation advanced display features. With support for analog and/or DVI output, the Matrox G200 Quad MMS is the first 4-port controller in the market capable of providing the precise, crystal clarity of four DVI-compliant digital display devices or four analog CRT display monitors to meet the requirements of the most demanding graphics tasks. The Matrox G200 Quad MMS graphics controller is the perfect 2D solution for financial traders, financial analysts, and engineers in the field of Electronic Design Automation (EDA) who require greater display "real estate" without sacrificing multiple slots. The Matrox G200 Quad MMS provides the most powerful 4-port 2D graphics solution on the market today, and is the best choice for customers powering three or more analog or DVI digital displays from a single PCI controller (and up to eight displays with two PCI controllers).

Performance

The Matrox G200 Quad MMS delivers award-winning performance, powered by four of the proven Matrox MGA-200 graphics processors, each dedicated to powering a single display and each with a dedicated 8 MB of frame buffer memory. This controller also features Matrox's innovative DualBus design, incorporating two independent buses operating in parallel to greatly increase graphics performance inside the G200 processor. Finally, each high-performance G200 processor on the Matrox G200 Quad MMS controller is powered by its own integrated 250-MHz RAMDAC for sharp, precise visual quality and the most responsive displays possible. In short, there is no faster 2D 4 port controller available today.

Functionality and Uses

The Matrox G200 Quad MMS is a high-quality graphics controller that delivers outstanding multi-display performance in 2D, GDI and DirectDraw and Direct3D applications for business users seeking maximum display area. This is the preferred solution for customers with requirements for three or more displays.

The Matrox G200 Quad MMS is also the first multi-port controller capable of driving up to four Digital Visual Interface (DVI) digital output displays. Users seeking the most precise visual experience possible covet digital displays due to the superior image quality. DVI displays provide top quality digital video clarity at up to 1280 x 1024 resolution per display. With DVI support, the powerful G200 graphics processor, with dedicated high speed (250 MHz) RAMDAC and a total of 32 MB of SGRAM per controller, delivers maximum viewing area, the sharpest, crispest images and top performance for 2D applications.

The Matrox G200 Quad MMS controller kit comes complete with the quad controller and either two analog or two DVI digital cables that enable support for four displays out-of-the box. For optimal investment protection, the analog controller kit is upgradable to DVI output through a simple cable-swap upgrade. By plugging in one or more of the DVI cables, customers can power two or four DVI panels. In addition to all-analog or all-digital display functionality, customers will also be able to mix and match displays, powering two analog displays and two DVI panels with appropriate cables.

The Matrox G200 Quad MMS also comes complete with Matrox's highly regarded PowerDesk software suite, enabling complete control of all of the elements of multi-display visual computing. PowerDesk enables single control panel access to manage features such as color and resolution, dialog box and other vital window management functions that become increasingly important to boosting productivity in multi-display environments.

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 G200 Quad MMS 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.

COMPAQ

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SPECIFICATIONS

Interface		PCI
Standard Memory		32 MB SGRAM (8 MB per port)
DAC Speed		250 MHz
Data Path		128-bit Internal/64-bit External
Color Space Conversion		Yes
Scaling		Yes
Quick Draw Support		Yes
DCI & DirectX Video Playback		Yes
Direct3D Support		Yes
Engine Acceleration		3 ROP bitBLT, Line Draw, Text, Color Expansion, Basic Video Color Conversion and Scaling, Triangle Setup Engine
Output		Two output ports, which require two adapter cables to connect analog or digital output displays
	Analog Display Support	Two RGB cables support two DB-15 analog displays per cable
	DVI (Digital Visual Interface) Display Support	DVI cable option kit provides two DVI cables for connecting two DVI compliant displays per cable
	Display options supported	Four analog displays via two RGB cables Four DVI displays via two DVI cables Two analog displays via one RGB cable and two DVI displays via one DVI cable
OS Support		Windows NT 4.0
Other		PCI bus-mastering Texture mapping support Flat and Gouraud shading Anisotropic Filter Perspective texture Specular highlighting Dithering Full scene anti-aliasing Vertex fog

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SPECIFICATIONS *(continued)*

Refresh Rate (per display)	**Aspect Ratio**	**Resolution**	**Vertical**	**Horizontal**
	4:3/5:4	640 x 480	60-200 Hz	31-102 kHz
		800 x 600	60-200 Hz	38-114 kHz
		1024 x 768	60-140 Hz	48-113 kHz
		1152 x 864	60-120 Hz	54-110 kHz
		1280 x 1024	60-100 Hz	64-107 kHz
		1600 x 1200	60-90 Hz	75-113 kHz
		1800 x 1440	60-70 Hz	89-104 kHz
	16:9/16:10	856 x 480	60-200 Hz	30-108 kHz
		1280 x 720	60-100 Hz	44-76 kHz
		1600 x 1024	60-100 Hz	64-108 kHz
		1920 x 1080	60-80 Hz	70-94 kHz
		1920 x 1200	60-76 Hz	75-95 kHz

With DVI digital flat panel displays, the maximum display resolution is 1280 x 1024.
Maximum refresh rates may not be attainable at the highest display resolutions with 24- or 32-bit color palettes.

COMPATIBILITY

The Matrox G200 Quad MMS graphics controller and DVI cable options kits have been tested and are supported on the following systems:

Compaq Professional Workstations AP550 and SP750, Compaq Deskpro Workstation AP250

Compaq Deskpro EN Small Form Factor Series models with Intel® 820 chipset support a single Matrox G200 Quad MMS graphics controller

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