matrox G450 **MMS**
Multi-Monitor Series Graphics Cards

The most compact four-chip multi-monitor solution for financial markets

matrox
Graphics for Professionals

matrox G450 MMS

The world's smallest and most powerful four-chip PCI graphics card for financial markets

With millions of installed graphics cards worldwide, Matrox is the company industry leaders look to for innovation and productivity-enhancing multi-display technology. For over two decades, Matrox has provided stable products with long life cycles for the world's largest banks, investment and insurance firms and continues to dominate the financial market with the G450 MMS series. The G450 MMS Dual and Quad graphics cards offer outstanding multi-display support, superior image quality and unwavering stability.

Trading floors (Energy and Financial)   Exchanges   Direct worldwide support   Investment banking   Insurance firms

Stable and reliable
- The Matrox G450 chip is based on a mature and proven technology with millions of units shipped
- Matrox G450 MMS chip set and drivers have been tested and qualified by HP, IBM, DELL and Microsoft, along with many of the world's largest financial and enterprise institutions

Compact design and flexibility
- Option of Dual or Quad graphics cards
- Custom 6.5-inch (16.5 cm) graphics card designed for the new generation of half-length PCI systems
- No need to sacrifice system size to have robust full-featured dual- or quad-output
- Every G450 MMS card is digital-, analog- or multi-TV Out ready

One chip per output
- Unlike other multi-monitor solutions on the market, Matrox offers independent graphics chips, 360 MHz RAMDACs and 32 MB of dedicated memory for each display to enable optimal performance and stability

Direct product support
- Same day callback or e-mail response from Matrox specialized support center at **http://www.matrox.com/mga/corp/support** for pre- or post-sales information
- Matrox offers the best support in the industry by providing a dedicated team of global management, technical support and sales representatives with many years of expertise in the multi-monitor market
- Worldwide presence with offices in North America, Europe, and The Pacific Rim

Proven technology leadership
- Matrox designs its own graphics chips, boards and drivers
- All engineering efforts, from chip conception to board design, are focused on ensuring the highest possible image quality

Long product life cycles
- The Matrox MMS product line has a much longer product life cycle than other mass market graphics cards, which ensures that Matrox MMS customers are not burdened with frequent and expensive re-qualifications
- Long transition periods between each MMS generation
- No surprise end of life (EOL) announcements

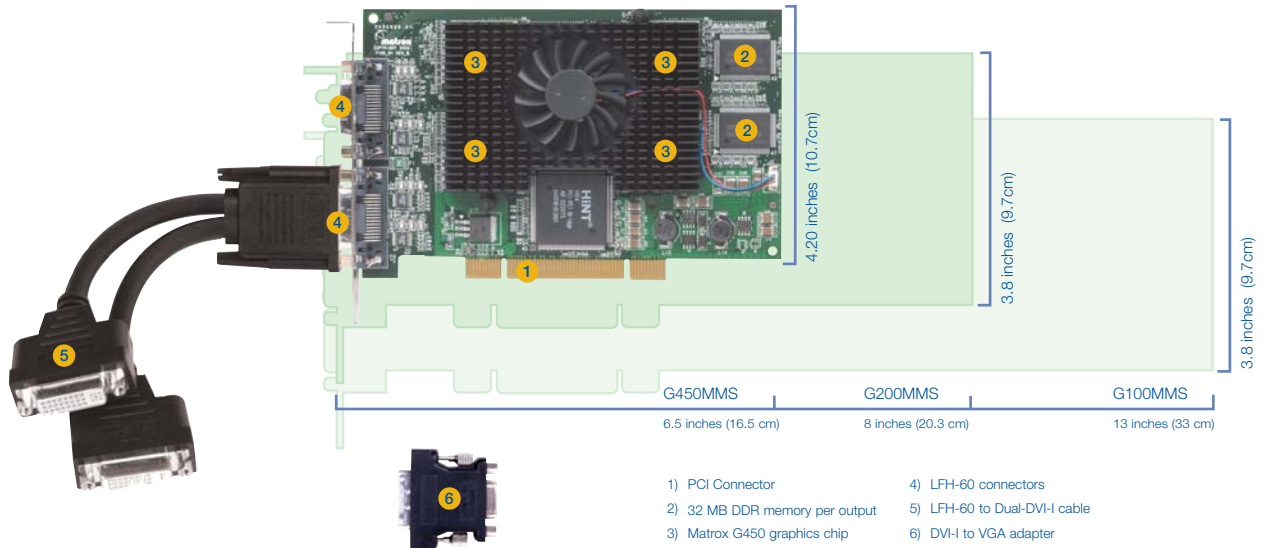### Adopted by industry leaders
- Many Fortune 500 companies have integrated the Matrox G450 MMS and remain loyal to Matrox for innovative graphics technology

Other mission-critical areas where the G450 MMS is present
- Public information displays/video walls
- Distribution control centers
- Air traffic control centers
- Flight information displays
- Digital menu displays
- Process control systems
- Medical imaging industries

Compare the size advantage
of the Matrox G450 MMS to the previous Matrox MMS line of graphic cards

4.20 inches (10.7cm)

3.8 inches (9.7cm)

3.8 inches (9.7cm)

G450MMS	G200MMS	G100MMS
6.5 inches (16.5 cm)	8 inches (20.3 cm)	13 inches (33 cm)

1) PCI Connector
2) 32 MB DDR memory per output
3) Matrox G450 graphics chip

4) LFH-60 connectors
5) LFH-60 to Dual-DVI-I cable
6) DVI-I to VGA adapter

Specially designed software and hardware features
for Matrox multi-display customers

Customizable Unattended Install	• Enables large corporate installs to create a standard set of desktop features and settings that can be implemented site-wide with a one-click install • Customize all of the Matrox PowerDesk settings and features
Virtual Desktop Manager	• Create multiple virtual desktops to accommodate applications running simultaneously • Use hot keys to navigate between each virtual desktop to see a completely different set of applications • Save your virtual desktops and export to another system
Matrox Pivot*	• Set up multiple screens for viewing in landscape or portrait mode or both • Each display can be turned independently 90, 180, or 270 degrees
Matrox Multi-Clone*	• Display the same desktop across all displays • Create flexible multi-monitor clone display setup (i.e. Clone display 1 on display 4, 7 and 8)
Matrox NT Style Fixed Resolution*	• Enables the desktop to be setup as one single large desktop in Win® 2K instead of four independent ones
Full-Featured Display Outputs	• Matrox MMS cards support up to 16 monitors in Windows® NT®, 2000 and XP
Matrox Multi TV Out*	• G450 MMS cards support the option of outputting to multiple TVs (NTSC or PAL) for public display settings (special TV Out cables required)
Matrox Unified Drivers	• Support previous generations of Matrox cards across the entire work site with a single driver
Standard Multi-Monitor Features	• Control dialog box positioning • Control logon/logoff positioning • Maximize a window full-screen or to a single screen • Save an application's previous size and position

*Support under Windows®2000 and XP only

Feature	Benefit
Multiple MGA-G450 graphics chips	Two or four chips per board deliver superior 2D performance
32 MB DDR memory per output	Quad provides maximum of 128 MB enabling faster and more robust graphics execution
360 MHz integrated RAMDAC per G450 chip	Provides high-resolution flicker-free displays and crisp images that Matrox is renowned for
Ultra-compact board design	6.5" (16.5 cm) board length enables support for all half-length PCI systems
Multiple cards supported in same system	Mix and match Matrox MMS dual and quad cards and support up to 16 displays from one system*
Maximum analog resolution per output: 2048 x 1536 24bpp @ 85 Hz	Achieves higher color accuracy and image focus for image and quality critical work
Maximum digital resolution per channel 1280 x 1024	Enables support for a wide range of CRT, LCD panel and Plasma resolutions
High-quality connectors and cables	Offers maximum versatility by allowing user to connect to both 15-pin analog displays or DVI digital flat panels
Multi TV Out capability	Allows for multi NTSC or PAL TV outputs (with cable upgrade)
Unified Microsoft certified drivers	The most stable optimized driver support available for Windows NT® 4.0,Windows® XP, Windows® 2000,Windows® 98 and Linux
FCC, CE, CSA, VCCI certifications	Guarantees optimal worldwide EMI (electromagnetic interference) conformity
3-year warranty	Backed by experienced technical support teams and 24-hour internet access to information and latest drivers

G450 X2 and X4 MMS Products:

G45X2DUAL-B	Dual-display analog and/or digital card, 64 MB DDR
G45X4QUAD-B	Quad-display analog and/or digital card, 128 MB DDR

G200 MMS and G450 X2 and X4 MMS Cable Options:

DL-CAB-DVI-I	One-foot LFH-60 to Dual-DVI-I cable*
DVI-I-VGA	DVI-I to VGA adapter*
DL-CAB-DVI	Six-foot LFH-60 to Dual-DVI-D cable
DL-CAB-VGA	One-foot LFH-60 to Dual VGA cable

*Ships standard with all G450 X2 and X4 MMS cards

G450 X2 and X4 MMS TV Out Cables:

DL-TVO-SCART	LFH-60 to Dual TV Out cable for SCART connectors
DL-TVO-SCV	LFH-60 to Dual TV Out cable for S-Video and composite connectors

System requirements

System	PCI bus
	Pentium 133 or greater with 64 MB of RAM PCI 2.1 and 2.2 compliant
	Windows NT® 4.0, Windows XP®, Windows® 2000, and Linux

Matrox offers unprecedented worldwide support for our multi-monitor product line with offices or agents in: London, Milan, Munich, Hong Kong, Taipei, Tokyo, Montreal, Toronto, San Francisco, Seoul, Singapore

Where to buy your matrox G450 MMS:
Corporate customers call 1-800-361-1408. Retail customers call 1-877-628-9669 or visit **Shopmatrox.com.**

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