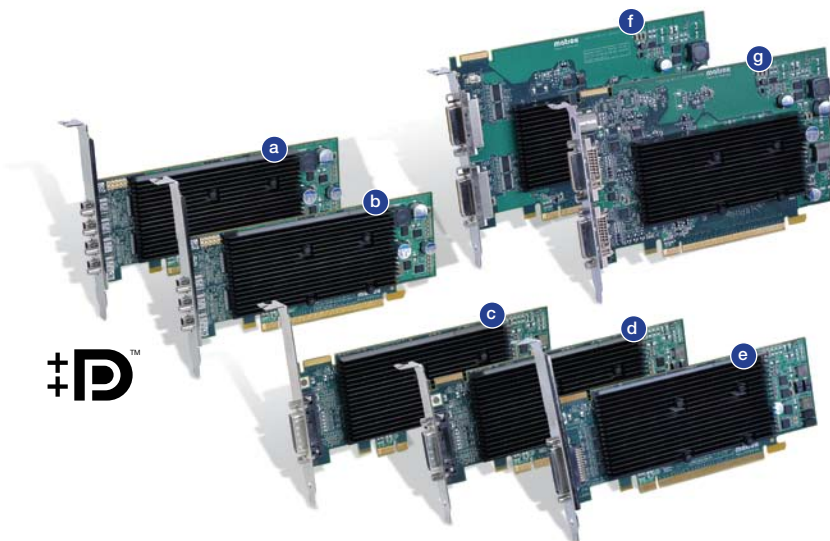# Matrox **M-Series**™

Drive Multi-Display Applications with Extraordinary Performance

Matrox M-Series multi-display graphics cards render pristine images across up to four high-resolution monitors at resolutions up to 2560 x 1600 for an exceptional multi-monitor user experience. With 1 GB of memory and advanced desktop management features such extending the Windows Taskbar to span multiple displays and support of independent or stretched modes, M-Series drives business, industrial, and government applications with extraordinary performance. M-Series graphics cards are easy to integrate into a wide variety of systems, offer optimal Windows Vista Aero support (WDDM mode), and can be paired with another M-Series graphics card to support up to eight monitors from a single computer.

Based on a new ASIC that offers native single-chip, quad-monitor support, these cards build upon the reliability and stability of previous Matrox products, and retain core Matrox benefits such as long life-cycles, top-to-bottom manufacturing, and unified display driver models for easy deployment across multiple systems.

Key features:

- **Up to 1 GB frame buffer memory**
  For enhanced performance in demanding multi-monitor business applications

- **Native PCI Express (PCIe) x16 performance**
  Maximum bandwidth to ensure best performance

- **Stretched and independent desktop**
  Supported in both Microsoft® Windows® Vista® Aero (WDDM mode) and Windows XP

- **Pristine image quality for high resolution monitors**
  DisplayPort and dual-link DVI cards support up to 2560 x 1600; Digital/analog cards up to 1920 x 1200

- **Passive cooling**
  Fanless design eliminates noise and increases product reliability

- **Wide enterprise flexibility**
  Unified driver package compatible with other Matrox products

- **Multiple operating system support**
  Display drivers for Windows Vista (32/64bit), Windows XP (32/64bit), Windows Server 2003/2008 (32/64 bit) and Linux

- **Low profile and ATX form factors**
  To fit in a wide variety of systems

- **Aftermarket upgrade to quad analog output**
  Upgrade M9120 Plus DualHead cards to four monitor output via aftermarket cable (CAB-L60-4X4F)

a) M9148 LP PCIe x16
b) M9138 LP PCIe x16
c) M9120 Plus LP PCIe x1
d) M9120 Plus PCIe x16
e) M9140 LP PCIe x16
f) M9125 PCIe x16
g) M9120 PCIe x16

www.matrox.com/graphics

matrox®
Graphics for Professionals

Find out which card is right for you.

For complete product specifications and details, please visit www.matrox.com/graphics.

	Dual Monitor ATX		Dual Monitor Low Profile		Triple Monitor Low Profile	Quad Monitor Low Profile	
	M9120	**M9125**	**M9120 Plus x16**	**M9120 Plus x1**	**M9138**	**M9140**	**M9148**
Part Number	M9120-E512F	M9125-E512F	M9120-E512LPUF	M9120-E512LAU1F	M9138-E1024LAF	M9140-E512LAF	M9148-E1024LAF
Bus Type	PCIe x16	PCIe x16	PCIe x16	PCIe x1	PCIe x16	PCIe x16	PCIe x16
Graphics Memory	512MB	512MB	512MB	512MB	1024MB	512MB	1024MB
Card Form Factor (PCB / bracket)	ATX / ATX	ATX / ATX	LP / LP	LP / ATX	LP / ATX	LP / ATX	LP / ATX
Extra bracket in the box	None	None	ATX	LP	LP	LP	LP
Card Dimensions[1]	6.6" (L) x 4.376" (H)	6.6" (L) x 4.376" (H)	6.6" (L) x 2.7" (H)	6.6" (L) x 2.7" (H)	6.6" (L) x 2.7" (H)	6.6" (L) x 2.7" (H)	6.6" (L) x 2.7" (H)
Connectors	DVI-I x 2	DVI-I x 2	LFH-60	LFH-60	3 x miniDP	KX-20	4 x miniDP
Adapter Cables	None	None	LFH-60 to 2 x DVI-I	LFH-60 to 2 x DVI-I	3 x miniDP to DP	KX-20 to 4 x DVI-I	4 x miniDP to DP 4 x DP to DVI-D
Connector Adapters	2 DVI-1 to HD15	2 DVI-1 to HD15	2 DVI-1 to HD15	2 DVI-1 to HD15	—	4 DVI-1 to HD15	—
Max Display Outputs per Card	2	2	2 (4 with quad analog upgrade cable)	2 (4 with quad analog upgrade cable)	3	4	4
Supported Display Output Types	DVI SL, Analog	DVI SL, DVI DL, Analog	DVI SL, Analog	DVI SL, Analog	DP, DVI SL[1]	DVI SL, Analog	DP, DVI SL
Max DVI Resolution per Output	1920x1200	Up to 1920x1200 and 2560x1600	1920x1200	1920x1200	1920x1200	1920x1200	1920x1200
Max DisplayPort Resolution per Output	—	—	—	—	2560x1600	—	2560x1600
Independent Desktop Mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Stretched Desktop Mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Pivot Support	Yes	Yes[3]	Yes	Yes	Yes	Yes	Yes
Passive Cooling	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Unified Driver Package	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PowerDesk Software	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EMC Certifications	Class B	Class B	Class B	Class B	Class B	Class B	Class B
Aftermarket Cable Upgrades	None	None	Quad analog output cable (Part # CAB-L60-4XAF)	Quad analog output cable (Part # CAB-L60-4XAF)	DP to DVI-D (Part # CAB-DP-DVIF)	None	None
Supported Operating Systems	Windows XP (32/64bit), Windows Vista (32/64bit), Windows Server 2003/2008 (32/64bit), Linux	Windows XP (32/64bit), Windows Vista (32/64bit), Windows Server 2003/2008 (32/64bit), Linux	Windows XP (32/64bit), Windows Vista (32/64bit), Windows Server 2003/2008 (32/64bit, Linux)	Windows XP (32/64bit), Windows Vista (32/64bit), Windows Server 2003/2008 (32/64bit), Linux	Windows XP (32/64bit) Windows Vista (32/64bit) Windows Server 2003/2008 (32/64bit), Linux	Windows XP (32/64bit), Windows Vista (32/64bit), Windows Server 2003/2008 (32/64bit), Linux	Windows XP (32/64bit) Windows Vista (32/64bit) Windows Server 2003/2008 (32/64bit), Linux
Open GL support	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Environmental	RoHS directive and WEEE directive compliant	RoHS directive and WEEE directive compliant	RoHS directive and WEEE directive compliant	RoHS directive and WEEE directive compliant	RoHS directive and WEEE directive compliant	RoHS directive and WEEE directive compliant	RoHS directive and WEEE directive compliant
Warranty[2]	3 years	3 years	3 years	3 years	3 years	3 years	3 years

[1] Card size = length, not including bracket and bracket connector x height, including slot connector. Card width is within specifications for a single card of the given type.
[2] Please visit the Matrox web site for full product Limited Warranty information. [3] Maximum resolution of 1920 x 1200 supported. [4] Requires DP to DVI-D cable (sold separately).