

# Matrox M-Series™

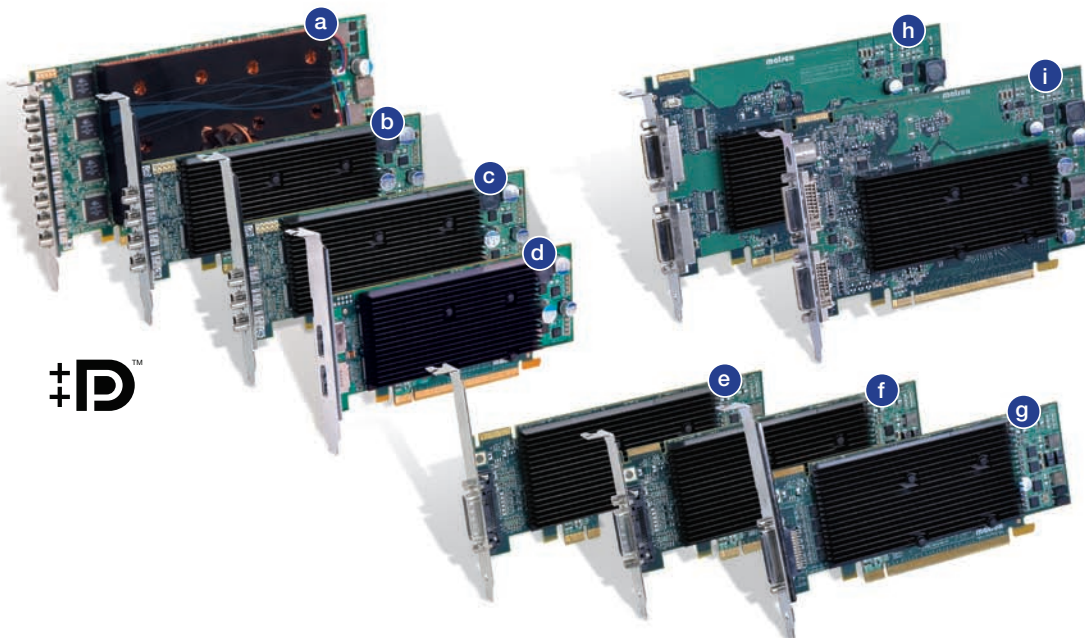
## Drive Multi-Display Applications with Extraordinary Performance

Matrox M-Series multi-display graphics cards support up to eight high-resolution monitors and deliver advanced desktop management features to drive business, industrial, and government applications with extraordinary performance.

### Key features:

- **Up to 2 GB of memory**  
For enhanced performance in demanding multi-monitor applications
- **Native PCI Express (PCIe) x16 performance**  
Maximum bandwidth to ensure best performance
- **Joined graphics card mode**  
Add multiple M-Series cards to support up to 16 monitors from a single computer<sup>1</sup>
- **Stretched and independent desktop modes**  
Supported in both Microsoft® Windows® 7<sup>2</sup>, Vista®, and XP
- **Pristine image quality for high resolution monitors**  
DisplayPort and dual-link DVI cards support up to 2560 x 1600; DVI single-link/analog cards support up to 1920 x 1200
- **Low profile and ATX form factors**  
To fit in a wide variety of systems
- **Easy deployment and wide enterprise flexibility**  
Unified driver package compatible with other Matrox products
- **Multiple operating system support**  
Display drivers for Windows 7, Vista (32/64bit), XP (32/64bit), Server 2003/2008 (32/64 bit) and Linux

<sup>1</sup> Operating system, system hardware, and driver compatibility need to be verified for large monitor configuration arrays  
<sup>2</sup> Under Windows 7 stretched desktop mode is not currently supported



- a) M9188 PCIe x16
- b) M9148 LP PCIe x16
- c) M9138 LP PCIe x16
- d) M9128 LP PCIe x16
- e) M9120 Plus LP PCIe x1
- f) M9120 Plus LP PCIe x16
- g) M9140 LP PCIe x16
- h) M9125 PCIe x16
- i) M9120 PCIe x16

## Find out which card is right for you.

For complete product specifications and details, please visit [www.matrox.com/graphics](http://www.matrox.com/graphics).

|  | Dual Monitor ATX   |                               | Dual Monitor Low Profile   |   |                         | Triple Monitor Low Profile   | Quad Monitor Low Profile   |                                     | Octal Monitor ATX  |
|--|--|-------------------------------|--|---|-------------------------|--|--|-------------------------------------|--|
|  | M9120 PCIe x16   | M9125 PCIe x16                | M9120 Plus PCIe x16  | M9120 Plus LP PCIe x1                   | M9128 LP PCIe x16       | M9138 LP PCIe x16  | M9140 LP PCIe x16  | M9148 LP PCIe x16                   | M9188 PCIe x16   |
| <b>Part Number</b>                           | M9120-E512F  | M9125-E512F                   | M9120-E512LPUF   | M9120-E512LAU1F                         | M9128-E1024LAF          | M9138-E1024LAF   | M9140-E512LAF  | M9148-E1024LAF                      | M9188-E2048F   |
| <b>Bus Type</b>                              | PCIe x16   | PCIe x16                      | PCIe x16   | PCIe x1                                 | PCIe x16                | PCIe x16   | PCIe x16   | PCIe x16                            | PCIe x16   |
| <b>Graphics Memory</b>                       | 512MB  | 512MB                         | 512MB  | 512MB                                   | 1024MB                  | 1024MB   | 512MB  | 1024MB                              | 2048MB   |
| <b>Card Form Factor (PCB / bracket)</b>      | ATX / ATX  | ATX / ATX                     | LP / LP  | LP / ATX                                | LP / ATX                | LP / ATX   | LP / ATX   | LP / ATX                            | ATX  |
| <b>Extra bracket in the box</b>              | —  | —                             | ATX  | LP                                      | LP                      | LP   | LP   | LP                                  | —  |
| <b>Card Dimensions<sup>1</sup></b>           | 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)  | 6.6" (L) x 2.7" (H)                 | 9.0" (L) x 4.4" (H)  |
| <b>Connectors</b>                            | DVI-I x 2  | DVI-I x 2                     | LFH-60   | LFH-60                                  | 2 x DP                  | 3 x miniDP   | KX-20  | 4 x miniDP                          | 8 x miniDP   |
| <b>Adapter Cables</b>                        | —  | —                             | 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<br>4 x DP to DVI-D | 8 x miniDP to DP<br>8 x DP to DVI-D  |
| <b>Connector Adapters</b>                    | 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  | —                                   | —  |
| <b>Max Display Outputs per Card</b>          | 2  | 2                             | 2 (4 with quad analog upgrade cable)                                       | 2 (4 with quad analog upgrade cable)    | 2                       | 3  | 4  | 4                                   | 8  |
| <b>Supported Display Output Types</b>        | DVI SL, Analog   | DVI SL, DVI DL, Analog        | DVI SL, Analog   | DVI SL, Analog                          | DP, DVI SL <sup>2</sup> | DP, DVI SL <sup>2</sup>  | DVI SL, Analog   | DP, DVI SL                          | DP, DVI SL   |
| <b>Max DVI Resolution per Output</b>         | 1920x1200  | Up to 1920x1200 and 2560x1600 | 1920x1200  | 1920x1200                               | 1920x1200               | 1920x1200  | 1920x1200  | 1920x1200                           | 1920x1200  |
| <b>Max DisplayPort Resolution per Output</b> | —  | —                             | —  | —                                       | 2560x1600               | 2560x1600  | —  | 2560x1600                           | 2560x1600  |
| <b>Independent Desktop Mode</b>              | Yes  |                               | Yes  |   |                         | Yes  | Yes  |                                     | Yes  |
| <b>Stretched Desktop Mode</b>                | Yes  |                               | Yes  |   |                         | Yes  | Yes  |                                     | Yes <sup>3</sup>   |
| <b>Pivot Support</b>                         | Yes  | Yes <sup>3</sup>              | Yes  |   |                         | Yes  | Yes  |                                     | Yes  |
| <b>Passive Cooling</b>                       | Yes  |                               | Yes  |   |                         | Yes  | Yes  |                                     | No   |
| <b>Unified Driver Package</b>                | Yes  |                               | Yes  |   |                         | Yes  | Yes  |                                     | Yes  |
| <b>PowerDesk Software</b>                    | Yes  |                               | Yes  |   |                         | Yes  | Yes  |                                     | Yes  |
| <b>EMC Certifications</b>                    | Class B  |                               | Class B  |   |                         | Class B  | Class B  |                                     | Class B  |
| <b>Aftermarket Cable Upgrades</b>            | —  |                               | Quad analog output cable (CAB-L60-4XAF)                                    | Quad analog output cable (CAB-L60-4XAF) | DP to DVI-D             | DP to DVI-D  | —  |                                     | —  |
| <b>Supported Operating Systems</b>           | Windows 7, Vista (32/64bit), XP (32/64bit), Server 03/08 (32/64bit), Linux |                               | Windows 7, Vista (32/64bit), XP (32/64bit), Server 03/08 (32/64bit), Linux |   |                         | Windows 7, Vista (32/64bit), XP (32/64bit), Server 03/08 (32/64bit), Linux | Windows 7, Vista (32/64bit), XP (32/64bit), Server 03/08 (32/64bit), Linux |                                     | Windows 7, Vista (32/64bit), XP (32/64bit), Server 03/08 (32/64bit), Linux |
| <b>Open GL support</b>                       | 2.0  |                               | 2.0  |   |                         | 2.0  | 2.0  |                                     | 2.0  |
| <b>DirectX support</b>                       | 9  |                               | 9  |   |                         | 9  | 9  |                                     | 9  |
| <b>Environmental</b>                         | RoHS and WEEE compliant  |                               | RoHS and WEEE compliant  |   |                         | RoHS and WEEE compliant  | RoHS and WEEE compliant  |                                     | RoHS and WEEE compliant  |
| <b>Warranty<sup>4</sup></b>                  | 3 years  |                               | 3 years  |   |                         | 3 years  | 3 years  |                                     | 3 years  |

<sup>1</sup> 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. <sup>2</sup> Please visit the Matrox web site for full product Limited Warranty information. <sup>3</sup> Maximum resolution of 1920 x 1200 supported. <sup>4</sup> Requires DP to DVI-D cable (sold separately). <sup>5</sup> Not currently supported under Windows 7.

### Learn More or Purchase

Matrox Graphics offers a wide range of specialized graphics solutions for professional markets such as finance, digital media, medical imaging, and enterprise computing. For more information about the entire Matrox Graphics product line, visit [www.matrox.com/graphics](http://www.matrox.com/graphics). To locate the local office nearest to you, visit [www.matrox.com/graphics/contact](http://www.matrox.com/graphics/contact). For product support, contact your Matrox representative or visit [www.matrox.com/graphics/support](http://www.matrox.com/graphics/support).

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