

Matrox Graphics product line-up

|                     | Product                         | Part #           | List price<br>(USD) | Card type              | Graphics<br>memory | Max. # of<br>computer monitors |        |       | TV output options |          | Multi-monitor + TV configuration |                        |                       |                             |                             | Form factor<br>(card / bracket) | Bracket<br>connectors | Maximum resolutions (per display)                             |                                                                                           | Card/unit<br>size   | Extra<br>hardware<br>included | Extra<br>features<br>included | Matrox<br>upgrades |
|---------------------|---------------------------------|------------------|---------------------|------------------------|--------------------|--------------------------------|--------|-------|-------------------|----------|----------------------------------|------------------------|-----------------------|-----------------------------|-----------------------------|---------------------------------|-----------------------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------|-------------------------------|-------------------------------|--------------------|
|                     |                                 |                  |                     |                        |                    | Digital                        | Analog | Total | SDTV (1)          | HDTV (2) | Dual Analog<br>+ HDTV            | Dual Digital<br>+ SDTV | Dual Analog<br>+ SDTV | Single Analog/DVI<br>+ HDTV | Single Analog/DVI<br>+ SDTV |                                 |                       | Digital                                                       | Analog                                                                                    |                     |                               |                               |                    |
| Parhelia™ Series    | Parhelia APVe                   | PH-E128APVF      | \$349               | PCIe x16               | 128 MB             | 2                              | 3      | 3     | Yes               | Yes      | Yes                              | Yes                    | Yes                   | Yes                         | Yes                         | ATX / ATX                       | DVI x 2, DIN8         | 1920 x 1200<br>1600 x 1200 (x2)+SDTV<br>1680 x 1050 (x2)+SDTV | 2048 x 1536 (x1)<br>1920 x 1440* (x2)<br>1600 x 1200* (x2)+SDTV/HDTV<br>1280 x 1024* (x3) | 6.4" x 4.42"        | a, b, c, m, n                 | r, s                          | l                  |
|                     | Parhelia 128MB                  | PH-A8X128        | \$399               | AGP 8x                 | 128 MB             | 2                              | 3      | 3     | Yes               | No       | No                               | No                     | Yes                   | No                          | Yes                         | ATX / ATX                       | DVI x 2               | 1920 x 1200*<br>1600 x 1200* (x2)+SDTV                        | 2048 x 1536 (x1, x2),<br>1280 x 1024* (x3)                                                | 6.9" x 4.3"         | a, b, c                       | r, s, u                       | —                  |
|                     | Parhelia 256MB                  | PH-A8X256        | \$639               | AGP 8x                 | 256 MB             | 2                              | 3      | 3     | Yes               | No       | No                               | No                     | Yes                   | No                          | Yes                         | ATX / ATX                       | DVI x 2               | 1920 x 1200*<br>1600 x 1200* (x2)+SDTV                        | 2048 x 1536 (x1, x2),<br>1280 x 1024* (x3)                                                | 6.9" x 4.3"         | a, b, c, d, e                 | r, s, u                       | A                  |
|                     | Parhelia PCI 256MB              | PH-P256          | \$699               | PCI, 64-bit, 66 MHz    | 256 MB             | 2                              | 3      | 3     | Yes               | No       | No                               | No                     | Yes                   | No                          | Yes                         | ATX / ATX                       | DVI x 2               | 1920 x 1200*<br>1600 x 1200* (x2)+SDTV                        | 2048 x 1536* (x1, x2),<br>1280 x 1024* (x3)                                               | 7.5" x 4.2"         | a, b, c, d, e                 | r, s, u                       | A, B               |
|                     | Parhelia DL256 PCI              | PH-P256DL        | \$699               | PCI, 64-bit, 66MHz     | 256 MB             | 1                              | 1      | 2     | Yes               | No       | No                               | No                     | No                    | No                          | Yes                         | ATX / ATX                       | DVI x 2               | 2560 x 1600<br>1600 x 1200* (x2)+SDTV                         | 2048 x 1536                                                                               | 7.5" x 4.2"         | a, c, d                       | r, s, u                       | A                  |
| Millennium P-Series | Millennium P650 PCIe 128        | P65-MDDE128F     | \$249               | PCIe x16               | 128 MB             | 2                              | 2      | 2     | Yes               | No       | No                               | No                     | No                    | No                          | Yes                         | ATX / ATX                       | DVI x 2               | 1920 x 1200                                                   | 2048 x 1536 (x1),<br>1920 x 1440* (x2)                                                    | 6.4" x 4.4"         | a x 2                         | r, s, u                       | C                  |
|                     | Millennium P650 LP PCIe 64      | P65-MDDE64LPF    | \$249               | PCIe x16               | 64 MB              | 2                              | 2      | 2     | Yes               | No       | No                               | No                     | No                    | No                          | Yes                         | LP / LP                         | LFH60                 | 1920 x 1200                                                   | 2048 x 1536 (x1),<br>1920 x 1440* (x2)                                                    | 5.8" x 2.7"         | a x 2, f, h                   | r, s                          | C, G               |
|                     | Millennium P650                 | P65-MDDA8X64F    | \$169               | AGP 8x                 | 64 MB              | 2                              | 2      | 2     | Yes               | No       | No                               | No                     | No                    | No                          | Yes                         | ATX / ATX                       | DVI x 2               | 1920 x 1200                                                   | 2048 x 1536 (x1),<br>1920 x 1440* (x2)                                                    | 5.9" x 4.1"         | a x 2                         | r, s, u                       | C, D               |
|                     | Millennium P650 Low-profile PCI | P65-MDDAP64F     | \$279               | PCI, 32-bit, 66MHz     | 64 MB              | 2                              | 2      | 2     | Yes               | No       | No                               | No                     | No                    | No                          | Yes                         | LP / ATX                        | LFH60                 | 1920 x 1200                                                   | 2048 x 1536 (x1),<br>1920 x 1440* (x2)                                                    | 5.2" x 2.5"         | a x 2, f, h                   | r, s                          | C, G               |
|                     | Millennium P750                 | P75-MDDA8X64F    | \$235               | AGP 8x                 | 64 MB              | 2                              | 3      | 3     | Yes               | No       | No                               | No                     | Yes                   | No                          | Yes                         | ATX / ATX                       | DVI x 2               | 1920 x 1200<br>1600 x 1200* (x2)+SDTV                         | 2048 x 1536 (x1),<br>1920 x 1440* (x2),<br>1280 x 1024* (x3)                              | 5.9" x 4.1"         | a, b, c                       | r, s, u                       | —                  |
| QID Series          | QID                             | QID-QDA8X128F    | \$599               | AGP 8x                 | 128 MB             | 4                              | 4      | 4     | No                | No       | No                               | No                     | No                    | No                          | No                          | ATX / ATX                       | LFH60 x 2             | 1600 x 1200*                                                  | 1600 x 1200*                                                                              | 6.5" x 4.3"         | a x 4, f x 2                  | s, t                          | E, G               |
|                     | QID Pro                         | QID-P256PRO      | \$999               | PCI, 64-bit, 66MHz     | 256 MB             | 4                              | 4      | 4     | No                | No       | No                               | No                     | No                    | No                          | No                          | ATX / ATX                       | LFH60 x 2             | 1600 x 1200*                                                  | 1600 x 1200*                                                                              | 7.5" x 4.2"         | a x 4, f x 2                  | r, s, t                       | A, G               |
|                     | QID LP PCIe                     | QID-E128LPAF     | \$799               | PCIe x16               | 128 MB             | 4                              | 4      | 4     | No                | No       | No                               | No                     | No                    | No                          | No                          | LP / ATX                        | KX20                  | 1600 x 1200*                                                  | 1600 x 1200*                                                                              | 6.6" x 2.7"         | a x 4, g, h                   | s, t                          | —                  |
|                     | QID Low-profile PCI             | QID-QDAP128F     | \$799               | PCI, 32-bit, 66MHz     | 128 MB             | 4                              | 4      | 4     | No                | No       | No                               | No                     | No                    | No                          | No                          | LP / ATX                        | KX20                  | 1600 x 1200*                                                  | 1600 x 1200*                                                                              | 6.6" x 2.5"         | a x 4, g, h                   | s, t                          | —                  |
| MMS                 | G450x2 MMS                      | G45X2DUAL-BF     | \$599               | PCI, 32-bit, 66MHz     | 64 MB              | 2                              | 2      | 2     | No                | No       | No                               | No                     | No                    | No                          | No                          | ATX / ATX                       | LFH60                 | 1280 x 1024                                                   | 2048 x 1536                                                                               | 6.5" x 4.2"         | a x 2, f                      | s, t                          | E, F, G            |
|                     | G450x4 MMS                      | G45X4QUAD-BF     | \$699               | PCI, 32-bit, 66MHz     | 128 MB             | 4                              | 4      | 4     | No                | No       | No                               | No                     | No                    | No                          | No                          | ATX / ATX                       | LFH60 x 2             | 1280 x 1024                                                   | 2048 x 1536                                                                               | 6.5" x 4.2"         | a x 4, f x 2                  | s, t                          | E, F, G            |
| Millennium G-Series | Millennium G550 PCIe            | G55-MDDE32F      | \$139               | PCIe x1                | 32 MB              | 2                              | 2      | 2     | Yes               | No       | No                               | No                     | No                    | No                          | Yes                         | ATX / ATX                       | DVI x 2               | 1280 x 1024                                                   | 2048 x 1536 (main),<br>1600 x 1200 (secondary)                                            | 4.4" x 3.6"         | a x 2                         | t                             | C                  |
|                     | Millennium G550 LP PCIe         | G55-MDDE32LPDF   | \$169               | PCIe x1                | 32 MB              | 2                              | 2      | 2     | Yes               | No       | No                               | No                     | No                    | No                          | Yes                         | LP / LP                         | LFH60                 | 1280 x 1024*                                                  | 2048 x 1536 (main),<br>1600 x 1200 (secondary)                                            | 6.4" x 2.7"         | a x 2, f, h                   | t                             | C, G               |
|                     | Millennium G550                 | G55+MDHA32DRF    | \$125               | AGP 4x                 | 32 MB              | 1                              | 2      | 2     | Yes               | No       | No                               | No                     | No                    | No                          | Yes                         | ATX / ATX                       | DVI, HD15             | 1280 x 1024                                                   | 2048 x 1536 (main),<br>1600 x 1200 (secondary)                                            | 6.6" x 3.2"         | a, c                          | t                             | —                  |
|                     | Millennium G550 Low-profile PCI | G55MDDAP32DB-EF  | \$149               | PCI, 32-bit, 66MHz     | 32 MB              | 2                              | 2      | 2     | Yes               | No       | No                               | No                     | No                    | No                          | Yes                         | LP / ATX                        | LFH60                 | 1280 x 1024*                                                  | 2048 x 1536 (main),<br>1600 x 1200 (secondary)                                            | 6.6" x 2.5"         | h, i                          | t                             | C, G, H            |
|                     | Millennium G550 Dual DVI        | G55MADDA32DRF    | \$150               | AGP 4x                 | 32 MB              | 2                              | 2      | 2     | Yes               | No       | No                               | No                     | No                    | No                          | Yes                         | LP / ATX                        | LFH60                 | 1280 x 1024*                                                  | 2048 x 1536 (main),<br>1600 x 1200 (secondary)                                            | 6.6" x 2.5"         | h, i                          | t                             | C, G, H            |
|                     | Millennium G450 PCI             | G45FMDVP32DB-EF  | \$115               | PCI, 32-bit, 33MHz     | 32 MB              | 1                              | 2      | 2     | Yes               | No       | No                               | No                     | No                    | No                          | Yes                         | ATX / ATX                       | DVI, HD15             | 1280 x 1024                                                   | 2048 x 1536 (main),<br>1600 x 1200 (secondary)                                            | 5.9" x 4.0"         | a                             | t                             | C                  |
|                     | Millennium G450 Low-profile     | G45FMLDVA32DBF** | \$145               | AGP 4x                 | 32 MB              | 1                              | 2      | 2     | Yes               | No       | No                               | No                     | No                    | No                          | Yes                         | LP / LP                         | DVI                   | 1280 x 1024                                                   | 2048 x 1536 (main),<br>1600 x 1200 (secondary)                                            | 6.6" x 2.5"         | 4b, h                         | t                             | C                  |
|                     | Millennium G450                 | G45FMDHA32DBF**  | \$95                | AGP 4x                 | 32 MB              | —                              | 2      | 2     | Yes               | No       | No                               | No                     | No                    | No                          | Yes                         | ATX / ATX                       | HD15 x 2              | —                                                             | 2048 x 1536 (main),<br>1600 x 1200 (secondary)                                            | 5.9" x 3.3"         | —                             | t                             | C                  |
| GXM                 | DualHead2Go                     | D2G-A2A-AJ***    | \$169               | (external upgrade)     | —                  | —                              | 2      | 3     | No                | No       | No                               | No                     | No                    | No                          | No                          | —                               | HD15 x 2              | —                                                             | 1280 x 1024* (x2)                                                                         | 3.8" x 1.0" x 3.6"  | o, p                          | v                             | —                  |
|                     | TripleHead2Go                   | T2G-A3A-AJF****  | \$299               | (external upgrade)     | —                  | —                              | 3      | 4     | No                | No       | No                               | No                     | No                    | No                          | No                          | —                               | HD15 x 3              | —                                                             | 1280 x 1024* (x3)                                                                         | 4.2" x 1.0" x 3.6"  | o, p, q                       | v                             | —                  |
| Special             | Extio F1400                     | XTO-F1400F       | Contact Matrox      | PCI, 32-bit / PCIe x1† | 128 MB             | 4                              | 4      | 4     | No                | No       | No                               | No                     | No                    | No                          | No                          | LP / ATX                        | DVI x 4               | 1600 x 1200*                                                  | 1600 x 1200*                                                                              | 11.8" x 1.2" x 5.6" | a x 4, o                      | r, t, w                       | —                  |
|                     | Extio F1420                     | XTO-F1420F       | Contact Matrox      | PCI, 32-bit / PCIe x1† | 128 MB             | 4                              | 4      | 4     | No                | No       | No                               | No                     | No                    | No                          | No                          | LP / ATX                        | DVI x 4               | 1600 x 1200*                                                  | 1600 x 1200*                                                                              | 11.8" x 1.2" x 5.6" | a x 4, o                      | r, t, x                       | —                  |
|                     | Parhelia HR256                  | PH-P256HR3D      | \$2,495             | PCI, 64-bit, 66MHz     | 256 MB             | 1                              | —      | 1     | No                | No       | No                               | No                     | No                    | No                          | No                          | ATX / ATX                       | LFH60 x 2             | 3840 x 2400                                                   | —                                                                                         | 7.5" x 4.2"         | j, k                          | r, s, t, u                    | A                  |

\* The resolution of each display must be the same. \*\* Bulk quantity of 40 units/box. \*\*\* The part number for North America and Japan ends in "AJ" while the part number for Europe or the rest of Asia ends in "EUF" or "FE", respectively. \*\*\*\* The part number for North America and Japan ends in "AJF" while the part number for Europe or the rest of Asia ends in "EUF" or "FEF", respectively.

| Extra hardware |                                                                       |   |                                                            |
|----------------|-----------------------------------------------------------------------|---|------------------------------------------------------------|
| a              | DVI-to-HD15 connector adapter                                         | j | LFH60-to-LFH60 cable (6 foot)                              |
| b              | DVI-to-HD15 dual-monitor adapter cable (1 foot)                       | k | LFH60-to-LFH60 cable with USB connector (6 foot)           |
| c              | TV-output adapter cable (HD15 to composite video and S-video, 1 foot) | l | 3W3-to-BNC cable (6 foot)                                  |
| d              | Stereo-3D bracket (mini DIN3 connector, 1 foot)                       | m | DVI-to-HD15/DVI dual-monitor adapter cable (1 foot)        |
| e              | Stereo-3D adapter cable (mini DIN3 connector, 1 foot)                 | n | HD15-to-component-video (HDTV) adapter cable (1 foot)      |
| f              | LFH60-to-DVI dual-monitor adapter cable (1 foot)                      | o | Universal power adapter and region-specific power cable(s) |
| g              | KX20-to-DVI quad-monitor adapter cable (1 foot)                       | p | HD15-to-HD15 monitor cable (2-foot)                        |
| h              | Extra bracket for different form factor (LP or ATX)                   | q | DVI-to-HD15 monitor cable (2-foot)                         |
| i              | LFH60-to-HD15 dual-monitor adapter cable (1 foot)                     |   |                                                            |

| Extra features  |                                                                          |
|-----------------|--------------------------------------------------------------------------|
| r               | OpenGL® acceleration                                                     |
| s               | Pivot (display rotation) support                                         |
| t               | Support for displays with special aspect ratios                          |
| u               | Matrox-certified with leading CAD and/or GIS software                    |
| v               | Graphics eXpansion Module (GXM) - external multi-diaplay upgrade         |
| w               | Extio 1400 - 6 USB ports, audio hardware, passive cooling                |
| x               | Extio 1420 - 6 USB and 2 Firewire ports, audio hardware, passive cooling |
| TV output notes |                                                                          |
| 1               | YPbPr component output                                                   |
| 2               | Composite and S-video output (NTSC or PAL)                               |

| Matrox upgrades |                                                                       | Part #          |
|-----------------|-----------------------------------------------------------------------|-----------------|
| A               | Matrox ASM (Advanced Synchronization Module)                          | ASM-VID-GN      |
| B               | Composite video and S-video input adapter cable                       | CAB-DVI-VIN     |
| C               | TV-output adapter cable (HD15 to composite video and S-video, 1 foot) | CAB-HD15-TVF    |
| D               | Millennium P650 TripleHead™ upgrade kit                               | P65-UPGRADE-KIT |
| E               | Dual-TV-output adapter cable for composite video and S-video, 1foot   | LFH60VSV-E      |
| F               | Dual-TV-output adapter cable for SCART                                | LFH604XS-E      |
| G               | LFH60-to-DVI dual-monitor cable (6-foot)                              | DL-CAB-DVI      |
| H               | LFH60-to-DVI dual-monitor adapter cable (1-foot)                      | LFH60DDVI-E     |
| I               | DIN8-to-composite to video-input-adapter cable                        | CAB-DIN8-CVIN   |

Notes

- Card size = length (not including bracket and bracket connectors) x height (including slot connector).
- PCIe x16 cards aren't downward compatible with PCIe slots designed for different bandwidths (e.g., x1, x4, x8).
- PCIe x1 cards are compatible with all compliant PCIe slots (e.g., x1, x4, x8, x16).
- Matrox PCI cards are compatible with all PCI and PCI-X slots (not PCIe slots).
- Matrox AGP 8x cards are compatible with all compliant AGP 4x and 8x systems.
- Matrox AGP 4x cards are compatible with all AGP slots.
- For LP (Low-Profile) cards with ATX brackets, cards with factory-installed LP brackets may be available.
- With special monitor settings, Matrox products may support higher digital resolutions than those listed here.
- Matrox products support the analog resolutions listed here at 60 Hz or higher.
- Part numbers may differ for RoHS-compliant products. For more information, see: <http://www.matrox.com/mga/rohs/home.php>

Footnote

† Fiber-optic cable and interface card for either PCI (part #: XTQA-FP33LPAF) or PCIe (part #: XTQA-FELPAF) sold separately. Contact Matrox for compatibility information.



Matrox external upgrade: DualHead2Go

|                                      |                                                                                                                                                                                                 |                      |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Part numbers:                        | D2G-A2A-AJ (with a US-type power cable)<br>D2G-A2A-EU (with a UK-type and a Continental-European-type power cable)<br>D2G-A2A-FE (with an Australian-type power cable)                          |                      |
| List price (USD):                    | \$169                                                                                                                                                                                           |                      |
| Max # of computer monitors:          | 2 analog<br>2 analog plus laptop monitor                                                                                                                                                        |                      |
| Connectors:                          | HD-15 (analog) x 3 (1 input, 2 output)<br>Power (5VDC, 2A)                                                                                                                                      |                      |
| Supported display modes:             | Resolution                                                                                                                                                                                      | Refresh Rate         |
|                                      | 2048 x 768<br>2560 x 1024*                                                                                                                                                                      | 60, 75, 85Hz<br>60Hz |
| * Only available on certain systems. |                                                                                                                                                                                                 |                      |
| Box size:                            | Dimensions                                                                                                                                                                                      | Weight               |
|                                      | 9.2 cm x 9.5 cm x 2.5 cm                                                                                                                                                                        | 134 grams            |
| Hardware included:                   | DualHead2Go connector box<br>2-foot HD15-to-HD15 (analog) monitor cable (P/N: /16125-00)<br>External 5VDC power adapter (P/N: /PS010S1EA0)<br>Region-specific power cable(s) (P/N: /PS010S1EA0) |                      |



Creative Professionals

More information

For more information please visit [www.matrox.com/graphics](http://www.matrox.com/graphics).

Where to Buy

For more information on authorized dealers in the U.S. and Canada, please contact Matrox Sales at **1-800-361-1408** or by email at [insales@matrox.com](mailto:insales@matrox.com).

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