

matrox  
**TripleHead2Go**  
Digital Ed  
[www.matrox.com/graphics](http://www.matrox.com/graphics)

## See the Possibilities.

Matrox Graphics offers the most extensive line of reliable multi-display solutions on the market today.

# Product Lineup

## Matrox Multi-Display Graphics Cards

A pioneer in multi-monitor graphics technology, Matrox offers the most extensive line of multi-display graphics solutions — dual, quad and beyond — on the market today. We work hard to deliver the optimal combination of fanless design, low power consumption, best-of-breed 2D image quality, high MTBF and long product life cycles. Our solutions offer flexible multi-display configurations — from stretched to independent, in pivot and clone mode for widescreen and custom monitors — to give you more workspace to see and do more.

Product	Part Number	Max. # of Displays			Card Type	Graphics Memory	Form Factor Card/Bracket	On-Board Connectors	Maximum Resolutions (Per Display)			Optional Adapter/Cable Upgrade(s) <sup>2</sup> (sold separately)		
		DisplayPort	DVI	Analog					Total	DisplayPort	DVI	Analog	Cable Description	Cable Part Number
<b>M-Series - Low power consumption. Fanless cooling<sup>12</sup>. Dual and Quad multi-monitor support. Exceptional performance and image quality.</b>														
M9120 PCIe x16	M9120-E512F	—	2	2	2	PCIe x16	512MB DDR2	ATX / ATX	DVI-I x 2	—	1920x1200	2048x1536	—	—
M9120 Plus LP PCIe x1	M9120-E512LAU1F	—	2	4 <sup>4</sup>	4 <sup>10</sup>	PCIe x1	512MB DDR2	LP / ATX & LP	LFH-60	—	1920x1200	2048x1536 (x2) or 1920x1200 (x3, x4) <sup>3</sup>	LFH-60 to 4xHD15 Analog	CAB-L60-4XAF
M9120 Plus LP PCIe x16	M9120-E512LPUF	—	2	4 <sup>4</sup>	4 <sup>10</sup>	PCIe x16	512MB DDR2	LP / LP & ATX	LFH-60	—	1920x1200	2048x1536 (x2) or 1920x1200 (x3, x4) <sup>3</sup>	LFH-60 to 4xHD15 Analog	CAB-L60-4XAF
M9125 PCIe x16	M9125-E512F	—	2	2	2	PCIe x16	512MB DDR2	ATX / ATX	DVI-I x 2	—	1920x1200 and 2560x1600	2048x1536	—	—
M9128 LP PCIe x16	M9128-E1024LAF	2	2 <sup>10</sup>	—	2	PCIe x16	1GB DDR2	LP / ATX & LP	DP x2	2560x1600	1920x1200	—	DP to DVI-D (DVI Single-Link)	CAB-DP-DVIF
M9138 LP PCIe x16	M9138-E1024LAF	3	3 <sup>10</sup>	—	3	PCIe x16	1GB DDR2	LP / ATX & LP	3 x miniDP	2560x1600	1920x1200	—	DP to DVI-D (DVI Single-Link)	CAB-DP-DVIF
M9140 LP PCIe x16	M9140-E512LAF	—	4	4	4	PCIe x16	512MB DDR2	LP / ATX & LP	KX20	—	1920x1200	1920x1200	—	—
M9148 LP PCIe x16	M9148-E1024LAF	4	4	—	4	PCIe x16	1GB DDR2	LP / ATX & LP	4 x miniDP	2560x1600	1920x1200	—	—	—
M9188 PCIe x16	M9188-E2048F	8	8	—	8	PCIe x16	2 GB DDR2	ATX / ATX	8 x miniDP	2560x1600	1920x1200	—	—	—
<b>P-Series - Ultra-low power consumption. Fanless cooling. Dual and quad multi-monitor support. Easy to deploy.</b>														
P690 LP PCIe x1	P69-MDDE128LA1F	—	2	2	2	PCIe x1	128MB	LP / ATX & LP	LFH-60	—	1920x1200	2048x1536	LFH-60 to 2xDVI-D (6ft)	CAB-L60-2XD6F
P690 LP PCIe x16	P69-MDDE128LPF	—	2	2	2	PCIe x16	128MB	LP / LP & ATX	LFH-60	—	1920x1200	2048x1536	LFH-60 to 2xDVI-D (6ft)	CAB-L60-2XD6F
P690 PCI	P69-MDDP128F	—	2	2	2	PCI	128MB	ATX / ATX	DVI-I x 2	—	1920x1200	2048x1536	—	—
P690 PCIe x16	P69-MDDE128F	—	2	2	2	PCIe x16	128MB	ATX / ATX	DVI-I x 2	—	1920x1200	2048x1536	—	—
P690 Plus LP PCI	P69-MDDP256LAUF	—	2	4 <sup>4</sup>	4	PCI	256MB	LP / ATX & LP	LFH-60	—	1920x1200	2048x1536 (x2), 1920x1200 (x3, x4) <sup>1,3</sup>	LFH-60 to 4xHD15 Analog & LFH-60 to 2xDVI-D (6ft)	CAB-L60-4XAF & CAB-L60-2XD6F
P690 Plus LP PCIe x16	P69-MDDE256LAUF	—	2	4 <sup>4</sup>	4	PCIe x16	256MB	LP / ATX & LP	LFH-60	—	1920x1200	2048x1536 (x2), 1920x1200 (x3, x4) <sup>1,3</sup>	LFH-60 to 4xHD15 Analog & LFH-60 to 2xDVI-D (6ft)	CAB-L60-4XAF & CAB-L60-2XD6F
<b>G-Series - Cost-effective and highly flexible DualHead graphics cards.</b>														
G550	G55+MDHA32DSF	—	1	2	2	AGP 4x	32MB	ATX / ATX	DVI-I, HD15	—	1280x1024 <sup>6</sup>	2048x1536 (main), 1600x1200 (secondary)	HD15 to 1xSDTV (TV-OUT)	CAB-HD15-TVF
G550 Dual DVI	G55MADDA32DSF	—	2 <sup>10</sup>	2	2	AGP 4x	32MB	LP / ATX & LP	LFH-60	—	1280x1024 <sup>1,5</sup>	2048x1536 (main), 1600x1200 (secondary)	HD15 to 1xSDTV (TV-OUT) & LFH-60 to 2xDVI-I (1ft) & LFH-60 to 2xDVI-D (6ft)	CAB-HD15-TVF & CAB-L60-2XD6F & CAB-L60-2XD6F
G550 LP PCI	G55MDDAP32DSF	—	2 <sup>10</sup>	2	2	PCI, 32-bit, 66 MHz	32MB	LP / ATX & LP	LFH-60	—	1280x1024 <sup>1,5</sup>	2048x1536 (main), 1600x1200 (secondary)	HD15 to 1xSDTV (TV-OUT) & LFH-60 to 2xDVI-I (1ft) & LFH-60 to 2xDVI-D (6ft)	CAB-HD15-TVF & CAB-L60-2XD6F & CAB-L60-2XD6F
G550 LP PCIe	G55-MDDE32LPDF	—	2	2	2	PCIe x1	32MB	LP / LP & ATX	LFH-60	—	1280x1024 <sup>1</sup>	2048x1536 (main), 1600x1200 (secondary)	HD15 to 1xSDTV (TV-OUT) & LFH-60 to 2xDVI-D (6ft)	CAB-HD15-TVF & CAB-L60-2XD6F
G550 PCIe	G55-MDDE32F	—	2	2	2	PCIe x1	32MB	ATX / ATX	DVI-I x 2	—	1280x1024 <sup>1</sup>	2048x1536 (main), 1600x1200 (secondary)	HD15 to 1xSDTV (TV-OUT)	CAB-HD15-TVF

## Graphics eXpansion Modules

Add external multi-monitor support to laptops, desktops and workstations. Customers benefit from multi-display computing — without the need to open PC chassis.

Product	Part Number	Max. # of Displays			Connectors	Maximum Resolutions (Per Display) <sup>7</sup>			Hardware Included	Dimensions	Optional Adapter/Cable Upgrade(s) <sup>2</sup> (sold separately)		
		DisplayPort	Digital	Analog		Total	DisplayPort	DVI			Analog	Cable Description	Cable Part Number
DualHead2Go Analog Edition	D2G-A2A-1F	—	—	2	2	VGA x 3 (1 input, 2 outputs) USB x 1	—	—	2x 1280x1024	2-ft VGA-to-VGA (analog) monitor cable, USB cable	3.8"x 3.6"x0.94" (9.6x9.2x2.4cm)	—	—
DualHead2Go Digital Edition	D2G-A2D-1F	—	2	2 <sup>10</sup>	2	VGA x 1 (input) DVI-I x 2 (outputs) USB x 1	—	—	2x 1920x1200 2x 1680x1050	2-ft VGA-to-VGA (analog) monitor cable, USB cable, 2-ft DVI-to-VGA monitor cable.	4.4"x5.5"x1.1" (11.3x14x2.8cm)	DVI to VGA adaptor	ADP-DVI-AF
DualHead2Go DP Edition	D2G-DP-MIF	2	2 <sup>10</sup>	2 <sup>10</sup>	2	DP x 1 (input) DP x 2 (outputs) USB x 1	2x 1920x1200	2x 1920x1200	2x 1680x1050	DP-to-DP input cable, USB cable, Mini-DP-to-DP input cable	3.5" x 3.8" x 1.1"	DisplayPort to HD15 DisplayPort to DVI	CAB-DP-VGAF CAB-DP-DVIF
TripleHead2Go Analog Edition	T2G-A3A-AJF <sup>8</sup> T2G-A3A-EUF <sup>9</sup> T2G-A3A-FEF <sup>9</sup>	—	—	3	3	VGA x 4 (1 input, 3 outputs) DC power input x 1	—	—	3x 1280x1024 2x 1680x1050	2-ft VGA-to-VGA monitor cable, 2-ft DVI-to-VGA monitor cable, external 5VDC power adapter, region-specific power cable(s)	3.8"x4.2"x0.94" (9.6x10.7x2.4cm)	—	—
TripleHead2Go Digital Edition	T2G-D3D-1F	—	3	3 <sup>10</sup>	3	VGA x 1 (input) DVI-DL x 1 (input) DVI-I x 3 (outputs) USB x 1	—	—	3x 1920x1080 <sup>13</sup> 3x 1680x1050 <sup>9</sup> 2x 1920x1200	2-ft VGA-to-VGA monitor cable, 2-ft DVI-to-DVI monitor cable USB cable	4.4"x5.5"x1.1" (11.3x14x2.8cm)	DVI to VGA adaptor	ADP-DVI-AF
TripleHead2Go DP Edition	T2G-DP-MIF	3	3 <sup>10</sup>	3 <sup>10</sup>	3	DP x 1 (input) DP x 3 (outputs) USB x 1	3x 1680x1050 <sup>11</sup> 2x 1920x1200	3x 1920x1080 <sup>13</sup> 3x 1680x1050 <sup>11</sup> 2x 1920x1200	3x 1360x768 2x 1680x1050	DP-to-DP input cable, USB cable, Mini-DP-to-DP input cable	3.5" x 3.8" x 1.1"	DisplayPort to HD15 DisplayPort to DVI	CAB-DP-VGAF CAB-DP-DVIF

<sup>1</sup> The resolution & refresh rate of each display must be the same. <sup>2</sup> Cable pricing details available at [www.matrox.com/graphics](http://www.matrox.com/graphics) <sup>3</sup> 1920x1200 supported with quad analog upgrade cable <sup>4</sup> LFH-60 to 4xHD15 cable upgrade required <sup>5</sup> LFH-60 to dual DVI-I cable upgrade required <sup>6</sup> Supported on primary display only <sup>7</sup> Maximum resolution supported is system and OS dependent, please visit [www.matrox.com/graphics/en/support/gxm](http://www.matrox.com/graphics/en/support/gxm) for details. <sup>8</sup> The part number for North America and Japan uses "AJ" while the part number for Europe and the rest of Asia uses "EU" or "FE", respectively. <sup>9</sup> These modes are available when TripleHead2Go Digital Edition is connected to the system's dual-link DVI output, and are not available under any Mac OS X operating system. <sup>10</sup> Using optional adapter cable (sold separately). <sup>11</sup> These modes are not available under any Mac OS X operating system. <sup>12</sup> M9188 does have a fan for cooling. <sup>13</sup> Resolution supported at 50Hz which may be incompatible with some displays.

Visit [www.matrox.com/graphics](http://www.matrox.com/graphics) for all software and hardware upgrade options and complete product line details.

## Multi-Channel Digital Extension

Transfer multiple channels of content along a single copper-based cable with over 100m of extension per component across an unlimited number of iterations, with zero loss to image quality.

Product	Part Number	Max. # of Displays			Connectors	Maximum Resolutions	Dimensions
		Digital	Analog	Total			
Veos Master Unit	VS-MSTR-0F	—	—	—	1 DVI-D input, 1 HD15 input, 1 serial input (DB-9) 1 coax output (BNC), 1 USB connector	1 channel: 1920x1200; 2 channels: 3840x1200 (2x 1920x1200); 3 channels: 4080x768 (3x 1360x768)	6.63"x5.19"x1.25" (16.84x13.18x3.18cm)
Veos Display Unit	VS-DSPL-0F	2	2	2	1 coax input (BNC), 2 DVI-I outputs <sup>1</sup> , 1 serial output (DB-9) 1 coax output (BNC), 1 USB connector	1 channel: 1920x1200; 2 channels: 3840x1200 (2x 1920x1200); 3 channels: 4080x768 (3x 1360x768)	6.63"x5.19"x1.25" (16.84x 13.18x 3.18cm)
Veos Repeater Unit	VS-RPTR-0F	—	—	—	1 coax input (BNC), 2 coax output (BNC) 1 RJ 45 input, 2 RJ 45 outputs (power) <sup>1</sup> Used for power (PoE)	1 channel: 1920x1200; 2 channels: 3840x1200 (2x 1920x1200); 3 channels: 4080x768 (3x 1360x768)	6.63"x5.19"x1.25" (16.84x 13.18x 3.18cm)

<sup>1</sup> DVI-to-HD15 adapter included in the box.

## Remote Graphics Units

Separate standard peripherals — keyboard, video and mouse — from the computer by up to 1 km (3280 ft) with fibre-optic cabling to deliver a user experience with less noise, less heat and more workspace.

Product <sup>1</sup>	Part Number	Max. # of Displays	Graphics Memory	Connectors	Maximum Resolutions (Per Display)			Maximum Distance	Interface card required
					DisplayPort	Digital	Analogue		
Extio F1220	XTO-F1220F	2	128MB	2 DVI-D, 2 HD15, 6 USB 2.0 ports, digital and analog audio connectors, dual-LC fibre-optic connector, power input, 2 FireWire ports	—	1920x1200	1920x1200	250 m (820 ft)	PCI (Part # XTOA-FP66LPAF) or PCIe (Part # XTOA-FESLPAF)
Extio F1240	XTO-F1240F	2	128MB	2 dual-link DVI-D, 2 HD15, 6 USB 2.0 ports, digital and analog audio connectors, dual-LC fibre-optic connector, power input	—	2560x1600	1920x1200	250 m (820 ft)	PCI (Part # XTOA-FP66LPAF) or PCIe (Part # XTOA-FESLPAF)
Extio F1400	XTO-F1400F	4	128MB	4 DVI-I connectors, 6 USB 2.0 ports, digital and analog audio connectors, dual-LC fibre-optic connector, power input	—	1920x1200	1920x1200 <sup>2</sup>	250 m (820 ft)	PCI (Part # XTOA-FP66LPAF) or PCIe (Part # XTOA-FESLPAF)
Extio F1420	XTO-F1420F	4	128MB	4 DVI-I connectors, 6 USB 2.0 ports, digital and analog audio connectors, dual-LC fibre-optic connector, power input, 2 FireWire ports	—	1920x1200	1920x1200 <sup>2</sup>	250 m (820 ft)	PCI (Part # XTOA-FP66LPAF) or PCIe (Part # XTOA-FESLPAF)
Extio F2408	XTO2-F2408F	4	1GB	4 DisplayPort connectors, 5 USB 2.0 ports, 2 fibre-optic connectors, audio connectors, power input	2560x1600	1920x1200 <sup>3</sup>	1920x1200 <sup>3</sup>	400 m (1312 ft) <sup>4</sup>	PCIe x1 (Part # XTO2A-FESLPAF)
Extio F2408 Expander	XTO2EX-F2408F	4	1GB	4 DisplayPort connectors, 1 fibre-optic connector, power input	2560x1600	1920x1200 <sup>3</sup>	1920x1200 <sup>3</sup>	5 m (must use cable provided)	—
Single-mode transceiver upgrade for Extio F2408	XTO2-2SMTXF	—	—	1 dual-LC fibre-optic connector per transceiver, upgrade includes 2 transceivers	—	—	—	1 km (3280 ft)	—

<sup>1</sup> Fibre-optic cables for products are required and sold separately. <sup>2</sup> Four DVI-I to HD-15 connector adapters included in the box.

<sup>3</sup> Four DisplayPort to DVI connector adapters included in the box. DisplayPort to Analog (VGA) adapters available from 3rd party vendors. Contact Matrox for details.

<sup>4</sup> Matrox Extio F2408 ships with multi-mode fibre-optic cable transceivers. Single-mode transceiver kit available (Part # XTO2-2SMTXF) to support extension distances above 400 m (1312') and up to 1 km (3280').

## Leader in Multi-Display Graphics Technology

Matrox Graphics focuses on designing graphics solutions for industries that require stable, high-reliability products. Long product life-cycles, ease of deployment in corporate environments, and feature sets aimed at solving specific, real-world business issues are what set us apart. In-house design expertise, top-to-bottom manufacturing, and dedicated customer support make our solutions the premier choice in industries that require stable, high-reliability products. Fortune 1000 companies rely on our multi-display solutions dual, quad, and beyond to increase productivity and improve decision-making by enabling them to see more and do more.

### Graphics solutions for:

Security	Digital Signage	Air Traffic Management
Control Room Workstations	Medical Imaging	Simulation
Business Productivity	Specialized Applications	Command and Control
Financial Trading	Embedded Systems	Public Safety
Video Display Wall	Navigation Systems	

### 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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