

Matrox D-Series Graphics Cards

Video walls that are worth the view.

The powerful Matrox® D-Series multi-monitor graphics cards can drive up to four 4Kp60 displays or projectors. Designed and built to ensure excellent reliability, stability, and ease of deployment, the D-Series quad-monitor PCI Express® x16 boards are ideal to power video walls in commercial as well as critical 24/7 environments, and a wide range of professional video wall applications. With on-board memory and cutting-edge technologies, D-Series delivers outstanding video wall performance for a broad variety of computationally-intense workflows and applications in control rooms, enterprises, industries, government, military, pro A/V, digital signage, security, and more.

Matrox D-Series HDMI & DisplayPort cards

Full-height, Gen 3 PCIe® x16 four-output graphics cards with four native HDMI® or DisplayPort™ connectors deliver the best display density, resolution, and performance for demanding multi-monitor applications.



D-Series D1450 - Quad HDMI graphics card



D-Series D1480 - Quad DisplayPort graphics card



Advanced capabilities

- Drive up to four high resolution displays (HDMI or DisplayPort).
- Experience smooth video playback and graphics performance with up to 4 GB of graphics memory.
- Drive up to 16 synchronized displays and reduce tearing by framelocking up to four D-Series cards together using board-to-board framelock cables—also save slot space as a separate card is not needed for the synchronization.
- Play back protected content via HDCP support.
- Run the latest professional applications with its support for Microsoft® DirectX® 12, OpenGL® 4.5, and OpenCL™ 1.2.
- Prevent loose cabling with secure connectors.



Proven video wall ecosystem

- Pair D-Series with Matrox Mura IPX capture cards for exceptional multi-channel 4K capture and IP encode and decode capabilities.
- Drive up to 64 1920x1080p60 displays by pairing D-Series with multiple Matrox QuadHead2Go™ multi-monitor controllers.
- Create artistic video walls by pairing D-Series with multiple QuadHead2Go multi-monitor controllers.



Custom control

- Customize your setup with the easy-to-use Matrox PowerDesk™ desktop management software.
- Deploy tailor-made display configurations including stretched or independent desktops, clone mode, pivot, bezel management, edge overlap, and more.
- Easily manage your video walls with the intuitive Matrox MuraControl™ software.

Matrox PowerDesk software

The robust, field-proven Matrox PowerDesk desktop management software for Windows lets you easily configure and manage multi-display setups. It offers professional clients a comprehensive set of tools to deploy and control a variety of display configurations.



Stretched Desktop
Create an ultra-large desktop to expand a single application across all screens.



Independent Desktop
Set displays independently from one another to open different applications within each screen.



Clone Mode
Duplicate content to show the same information on all displays.



Edge Overlap
Adjust the number of overlapping pixels between edge-blending projectors to build a seamless, unified image.



Bezel Management
Compensate for the physical space created by monitor bezels to output a continuous image across multiple displays.



Pivot Mode
Select any combination of portrait or landscape and set the orientation that works best for you.



EDID Management
Provide consistent EDID signal to the graphics card to ensure video is displayed correctly.

Diverse video wall configurations

Matrox D-Series supports numerous types of video walls and helps you create the optimal setup for every need. With a single card you can power four-monitor video walls to deliver high-impact configurations. By combining four cards, you can build larger 16-monitor video walls, or create even larger scale video walls by pairing the D-Series cards with the Matrox QuadHead2Go multi-monitor controller cards or appliances.



View critical information across an expansive configuration



Combine with Matrox QuadHead2Go to build large-scale video walls

Technical specifications



D-Series 1450 -
Quad HDMI graphics card



D-Series D1480 -
Quad DisplayPort graphics card

Product

Part number	D1450-E4GB	D1480-E4GB
Bus type	PCIe 3.0 x16	
Video output connectors	4x HDMI	4x DisplayPort 1.4
Number of video outputs	4 per card	
Maximum number of cards in a system	4	

Performance

Maximum resolution	4x 4096x2160 @ 60Hz	4x 5120x3200 @ 60Hz
Memory	4 GB GDDR5	

Additional features

HDCP compliance	Yes	
Board-to-board framelock	Yes	
Supported graphics standards	DirectX® 12.0, OpenGL® 4.5, OpenCL™ 1.2	
Multi-stream audio	4 audio streams (through HDMI)	4 audio streams (through DisplayPort)
Independent desktop mode	Yes	
Stretched desktop mode	Yes	
Clone mode	Yes	
Pivot mode	Yes	
EDID management	Yes	
Bezel management	Yes	
Edge overlap	Yes	

Environmental & power consumption

Cooling	Active	
Power consumption	47 W	

Hardware

Dimensions	Length: 7.928" (20.137cm), Height: 4.999" (12.697cm)	
Regulatory compliance	FCC (US) Class B, CE (European Union) Class B, RCM (Australia/New Zealand) Class B, KC (Korea) Class B, ICES-3 (Canada)	
Environmental compliance	EU RoHS, China RoHS, REACH	
Warranty	3 years	

Software & APIs

Matrox PowerDesk for Windows	Yes	
Operating systems	Microsoft® Windows® 10 (64-bit)	
System requirements	Single available PCIe x16 lane, 4 GB of system memory	

Accessories (sold separately)

Board-to-board framelock cable	Yes (p/n: CAB-FL-F)	
Secure cable solution	Yes (p/n: SK-SLNC-4)	N/A (built-in DisplayPort connector)