MXRT-7500

High-end 3D PCIe 4-head display controller

One board, four displays

With the high-performance MXRT-7500, you can drive up to four full resolution displays attached via DisplayPort. As such, the board is perfect for use in 4-head configurations. This 'all-in-one' approach saves space on the PC; it simplifies the installation; and it significantly reduces the total cost of ownership.

Ultra-fast data transfers

The MXRT-7500 utilizes PCIe Gen3 technology and is compatible with the DisplayPort 1.2 interface standard, assuring ultra-fast loading of medical images and large datasets.

Barco's MXRT display controllers work wonderfully together with:

- Conference CloneView™: which enables accurate projection of medical images onto a large-screen display. The software tool ensures effortless cloning, scaling, zooming and panning of medical images on the large screen.
- DimView™: which automatically dims the auxiliary displays used for patient worklists or dictation, reducing peripheral ambient light.
- SpotView™: which enables focused observation during readings by dimming images outside a circular region of interest and boosting the luminance while enhancing the contrast in the region of interest.
- FindCursor™: which provides a method to quickly locate the cursor on a system with multiple displays.
- SingleView™: which enables the use of the entire display as one display, and eliminates any tearing down the center of the display. This simple setting works behind the scenes to make use of current PACS software seamlessly, and allows for hanging protocols in the center of the display.

- Four display outputs
- 4 GB GDDR5 display memory
- Single-wide form factor
- Powered by AMD's scalable FirePro^{TM} workstation GPU
- Display Port (DP) 1.2 video outputs
- Windows® 7 compatible

Product specifications	MXRT-7500
General specifications	
Bus compatibility	PCIe Gen3 x16
Power consumption	140 W
Form factor	242mm (L) x 98.53mm (H) single PCIe slot wide
Operating system	Windows 7 -32/64-bit
Platforms	Intel® and AMD architectures
Power Connector	One 2x3 power connector
Graphics accelerator	ATI FirePro TM
Display memory	4 GB GDDR5
Memory interface	256-bit
Memory bandwidth	154 GB/s
Pixel depth	32-bit pixels (supports 8-bit and 10-bit per color channel)
Electrical standard	DisplayPort (DP) complying to v1.2
Direct3D hardware support	Microsoft® DirectX v11.1, Vertex Shader 5.0, Pixel Shader 5.0
OpenGL hardware support	OpenGL 4.2
OpenCL hardware support	OpenCL 1.2
Connectors	4-DisplayPort (DP)
Supported resolutions	Up to 5.8MP grayscale at full refresh rate (VGA at boot-up)
Approvals and compliance	FCC Part 15 Class B, EN 55022 Limit B, EN 55024, UL-60950-1, BMSI CNS, CISPR-22/24, IEC60950-1, VCCI, CSA C22.2, EU RoHS directive (2002/95/EC), Certificate of Information & Communication Equipment (Republic of Korea)
Operating temperature	0° to 60°C (32° to 140° F)
Connectivity	Single-link Display Port (DP) to DVI-I adaptor cable (2 adaptors are included) Dual-Link DisplayPort (DP) to DVI-I adaptor available from Barco; Part Number K9305104

Last updated: 08 Jul 2024