

MXRT-5400

PCIe display controller for triple-head diagnostic imaging



The MXRT-5400 is a high-performance PCIe display controller featuring AMD FirePro™ 3D technology for leading-edge performance, flexibility and reliability. The board supports DirectX and OpenGL and is compatible with Microsoft Windows® 7.

One board, three monitors

The high-performance MXRT-5400 allows you to drive three monitors with just one PCIe slot. As such, the board is the perfect match for PACS workstations combining two diagnostic displays (or one seamless 'Fusion' display) with a third monitor for patient lists or 3D viewing applications. This 'all-in-one' approach saves space on the PC; it simplifies the installation; and it reduces power consumption.

Ultra-fast data transfers

The MXRT-5400 display controller is compatible with the DisplayPort interface standard, which assures easy installation and ultra-fast and reliable data transfers.

Flexible projection configurations

The MXRT-5400 display controller is available with Barco's Conference

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CloneView™ software, 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, making Barco displays and controllers perfectly suited for use in teaching hospitals, auditoriums and (tele)conference rooms.

Product specifications**MXRT-5400**

Bus compatibility	PCIe Gen2 x16
Power consumption	72 W
Form factor	230.53mm (L) x 98.34mm (H) single PCIe slot wide
Operating system	Windows 7 - 32/64-bit Windows XP - 32/64-bit
Platforms	Intel® and AMD architectures
Graphics accelerator	ATI FirePro
Display memory	1 GB GDDR5
Memory interface	128-bit
Memory bandwidth	64 GB/s
Pixel depth	32-bit pixels (supports 8-bit and 10-bit per color channel)
Electrical standard	Dual Link DVI complying to v1.0 Display Port (DP) complying to v1.1a
Direct3D hardware support	Microsoft® DirectX v11.0, Vertex Shader 5.0, Pixel Shader 5.0
OpenGL hardware support	OpenGL 4.0
Connectors	1- DVI-I, 2- Display Port (DP)
Supported resolutions	Up to 5.8MP grayscale at full refresh rate (VGA at boot-up)
Approvals and compliance	FCC Part 15 Class B, CE EN 55022 Limit B, EN 55024, UL-60950-1, BMSI CNS, CISPR-22/24, IEC609050-1, 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 Display Port (DP) to DVI-I adaptor available from Barco; Part Number K9305101