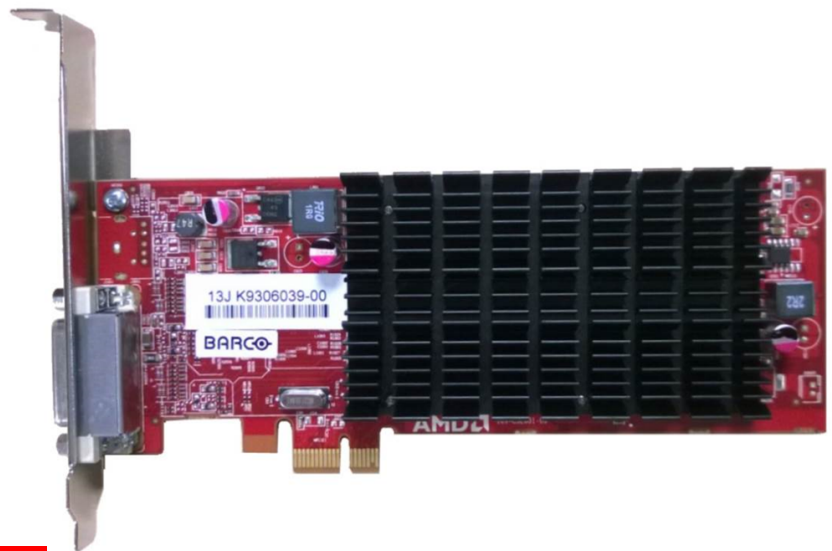# MXRT-1451

2D PCIe x1 small form factor display controller

The MXRT-1451 is a low-profile and small form factor PCIe display controller used to drive HIS, RIS and patient list monitors up to 1920 x 1200 display resolution. Since it's a PCIex1 card, it fits in workstations where all PCIe x16 slots are occupied.

The MXRT-1451 features 1 GB DDR3 display memory, and is compatible with the Windows 8.1 Secure Boot feature.

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Product specifications — MXRT-1451

Bus compatibility	PCIe Gen2.1 x1
Power consumption	17 W
Form factor	169.67mm (L) x 64.46mm (H) single PCIe slot wide
Operating system	Windows 7 - 32/64-bit, Windows 8.1 - 32/64-bit
Platforms	Intel® and AMD architectures
Graphics accelerator	ATI FirePro TM
Display memory	1 GB DDR3
Memory interface	64-bit
Memory bandwidth	9.6 GB/s
Pixel depth	32-bit pixels
Electrical standard	Single-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 4.1
Connectors	DMS-59 to Single-Link DVI
Supported resolutions	Up to 2MP at full refresh rate (VGA at boot-up)
Approvals and compliance	FCC Part 15 Class B, CE EN 55022: 2010 Limit B, EN 55024: 2010, UL-60950-1 2nd Edition 2007-03-27, BMSI CNS 13438 Class B, CISPR- 22: 2008-9, CISPR-24: 2010, IEC 60950-1 2005 + A1:2009 , VCCI, CSA C22.2, EU RoHS directive (2011/65/EC), Certificate of Information & Communication Equipment (Republic of Korea)
Operating temperature	0° to 60°C (32° to 140° F)
Connectivity	DMS-59 to Single-link DVI-I (1- adaptor is included)

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