

Matrox RAD LPX Series



Review, Assess, & Diagnose with Low Power, Low Profile, eXtended Functionality

Matrox RAD LPX display controller boards feature dual output support for grayscale or color, analog or digital displays providing pristine image quality and flexible visualization solutions for medical imaging professionals. Designed for diagnostic and review stations specifically to address low power and low profile environments where space and energy conservation is demanded, Matrox RAD LPX Series boards are available in both PCI and PCI Express versions¹.

- Single Matrox RAD LPX PCI or Matrox RAD LPX PCIe board powers any mix of up to two 3 MP digital or 2 MP analog displays
- Low Power and Low Profile boards fit in ATX workstation or small form factor PCs
- Fan-less, energy conserving, single PCB, single slot solution
- 256MB of onboard high speed memory for image cache and image acceleration
- New Boot-Free PowerDesk UI to instantly change desktop mode settings
- Legacy 8-bit grayscale support
- *ExtendiGray*© technology accurately converts color displays into grayscale, reducing color distraction during readings, and allows for concurrent execution of color and grayscale applications on a single grayscale desktop
- Hardware Pivot provides smooth and accelerated image display
- Capable of driving stretched or independent display modes
- Bus performance optimized for fast window & level and cineloo applications
- Hardware Cursor eliminates cursor flicker during cineloo
- No tearing and flicker-free, optimized cineloo playback

¹ Support can differ amongst OEM versions.

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Bus Interface	PCI-32/33 ¹ , PCI Express (PCIe x16)
Weight	Approximately 0.3 kg
Frame Buffer Memory	256 MB of high-speed memory for fast image loading, caching and acceleration
Display Support	Dual DVI-I connectors supporting any mix of up to 3 MP digital or up to 2 MP analog displays, in grayscale or color, with proper EDIDs
Dig.Communications	DDC-CI (support available for custom EDIDs)
Display Calibration	As supplied by each display vendor, or with purchase of third-party hardware/software solutions ²
Display Configurations	Color/Color, Color/Grayscale, Grayscale/Color, Grayscale/Grayscale
Color Resolution	Digital: Up to 3 MP 2048x1536 (landscape) and up to 1536x2048 (portrait) resolutions Analog: Up to 2 MP 1600x1200 (landscape) and up to 1200x1600 (portrait) resolutions
Grayscale Resolution	Digital: Up to 3 MP 2048x1536 (landscape) and up to 1536x2048 (portrait) resolutions Analog: Up to 2 MP 1600x1200 (landscape) and up to 1200x1600 (portrait) resolutions
Grayscale Settings	8-bit supporting Fixed Linear, Fixed Non-Linear, or Programmable palettes offering up to 256 distinct shades of gray ³ <i>ExtendiGray</i> © capability for accurate conversion of color data to grayscale without artifacts
Dual Programmable LUTs	Import a non-linear gamma ramp from a calibration device and independently program either display's Look Up Table outputs
OS Support	Microsoft® Windows® XP and Vista, 32bit and 64bit OSes
VGA Support	Built-in controller displays boot messages on either a fixed frequency or multi-sync monitor
Software Support	Supports OpenGL® 1.3 and/or DirectDraw/DirectX compatible applications
Industry Compliance	DICOM Pt 14 grayscale compliant
EMI Certifications	Class A
Environmental	Operating temperature from 0 to 55 degrees Celsius
Atmospheric	Operating pressure from about 650 to 1013 hPa
Humidity	Operating humidity from 20% to 80%, non-condensing

1. PCI board is a Low Profile/Small Form Factor PCI-32/33 compatible with PCI-64/66 and PCI-X slots, and can be installed in a full height ATX-style PCI slot with an available bracket change. PCIe x16 board is a Low Profile/Small Form Factor requires PCIe x16 mechanical slot and can be installed in a full height ATX-style PCI slot with an available bracket change.
2. See list of display and partner solutions
3. RAD LPX Series boards support up to 8-bit grayscale or 8-bit color single link displays. For products with 10-bit support, please inquire about the [Matrox Xenia Series](#).

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