

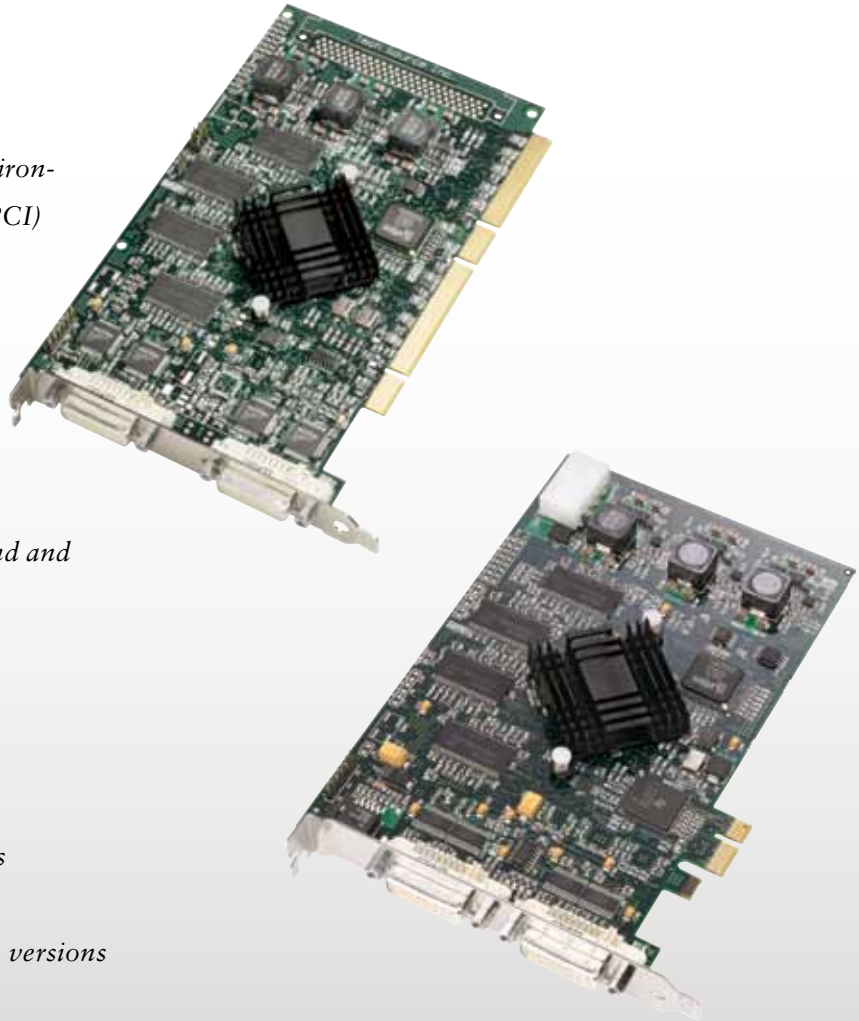


Graphics Boards
Raptor™ 4000
Raptor™ 4000e

Adapt to the changing ATC environment with the Raptor 4000 (PCI) and Raptor 4000e (PCI Express).

Both graphics boards support high resolution digital and analog monitors and address the specific requirements of air traffic management as well as vessel traffic control and command and control applications.

- Multiple high resolutions
- 8/16/24/32-bits per pixel
- 256 MB frame buffer
- 2 DVI-I outputs
- Support for major Unix platforms
- MOX/layering support
- PCI and PCI Express (short card) versions



Multi-Resolution Support

The resolutions are software configurable, and both boards have two DVI-I outputs for simultaneous display on analog/digital monitors. With high resolution support, they can simultaneously drive one monitor with a resolution of 2048 × 2048 as well as a second monitor with a resolution of 2560 × 1440. The optional analog configuration can support the Sony DDM CRT monitor.

Maximum Performance and Flexibility

With 256 MB of on-board memory and an efficient memory manager, the boards offer excellent drawing performance with minimum host CPU usage. They support layering by using several methods including MOX (multiple overlay extension). They can also be configured in a 24-bit true color mode for high-resolution image viewing applications. Modes that support 8-bit and 24-bit simultaneous visuals or two 8-bit visuals are also available.

Passive Heatsink Cooling System

Graphics board GPUs must be sufficiently cooled at all times not only to ensure optimum performance, but more importantly, to protect them from failure. While most boards rely on cooling fans that may wear out over time, these boards employ a passive heatsink. This increases reliability while eliminating downtime and expense required for fan inspections and maintenance.

Backward Compatibility

The boards are backward compatible with their predecessors so customers can maintain the same functionality they are accustomed to while enjoying the new features of these boards.

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Wide-Ranging Driver Support

These graphics boards support drivers for Solaris, Linux and Tru64 UNIX, are developed in house, and are easy to install. Because they are loadable, the drivers can be used with graphics boards from other vendors in a multi-screen environment.

Longest Product Life in Their Class

While most vendors' products are only available for one or two years, EIZO guarantees availability for at least five years and support for at least ten years. For system integrators, OEMs, and ATC centers, this means significant savings on development costs by reducing the frequency of configuration re-testing that is necessary when replacing old cards with new ones.

Specifications

	Raptor 4000	Raptor 4000e
Frame Buffer Size	256 MB	
MOX Hardware	Tech Source MOX Functionality; 32 layer management	
Color Lookup Table	2048 entries from a palette of 16.7 million colors + 2 AUX 256	
Graphics Modes	8 bit, 24 bit, 8+8, 8+24, MOX 16, MOX 24, MOX 32 (software configurable)	
Dynamic Color Plane Groups	32	
Interface	33/66 MHz 32/64-bit Revision 2.2	PCI Express 1x, Compliant with PCI Express Base Spec
Video Connectors	DVI-I x 2	
Maximum Supported Resolutions	Digital: 2048x 2048 for both connectors Analog: 2048 x 2048 for first connector and 1920 x 1200 for second connector	
Temperature Rating	Operating: 10° C to 50° C / 50° F to 122° F Non-operating: -10° C to 70° C / 14° F to 158° F	
Humidity Rating	10% to 90% (non-condensing)	
Power Rating	Less than 25 watts	
Dimensions (L x W)	174.6 mm x 106.7 mm 6.9" x 4.2"	167.7 mm x 111 mm 6.6" x 4.37"
Software Environments Supported*	<ul style="list-style-type: none">• Oracle Solaris 8, 9 and 10• HP Tru64 UNIX V4.0f and higher• HP-UX V10.20, 11.0 & 11i• Linux Red Hat	

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