Product Brief

Raptor 2000

2048 x 2048 Color Video Graphics Adapter

Raptor 2000 Features

- 2048 x 2048 Resolution
- Drives Sony DDM Monitor
- 8/16/24-Bits Per Pixel
- Hardware Double Buffering
- 12 MB Viewable Frame Buffer
- 12 MB Additional Frame Buffer
- 24 Independent Overlays
- 1024 Dynamic Colors
- Single Slot PCI Long Card

Markets

- Air Traffic Management
- Vessel Traffic Control
- Command & Control
- Remote Auction Art

Platforms

- Sun UltraSPARC Workstations
- Hewlett Packard
- Digital Alpha Workstations
- IBM PowerPC workstations
- Intel Pentium Based PC

The Tech Source Raptor 2000 ultra-high resolution graphics accelerator combines in a single slot PCI card a comprehensive array of high-end display subsystem features that formerly required a box level solution. Tech Source's high speed video switching circuitry permits the Raptor 2000 to redefine the meaning of world class resolution and functionality. The Raptor 2000 is designed for use in ultra high resolution, high performance, color graphics applications such as Air Traffic Management and Vessel Control. It's high level of integration achieves extreme flexibility over a wide range of functions.

An advanced Application Specific Integrated Circuit designed by Tech Source engineers provides the ability to display 1024 independent dynamic colors at the same time. That's four times the number of colors available in traditional graphics systems. Specialized frame buffer layering hardware allows for complete control of 24 independently addressable overlays with dynamic priority adjustment. That's 12 times more than most advanced underlay/overlay systems.

The Raptor 2000 offers two-dimensional drawing acceleration for polygons, text and windowing operations. The co-processor can generate an excess of 900,000 X Window System characters per second providing the ability to manage over 2,000 targets/tracks in real time.

Multiple configuration modes are available for double buffering and multiple overlay buffering support. True hardware double buffering is supported using standard software interfaces such as MBX (Multi-buffering extension for X) and DBE (Double buffering extension). Specialized flash fill hardware performs back buffer screen erases in under 100 microseconds.

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Raptor 2000 Technical Specifications

Raptor 2000-24M	PCI video graphics adapter, 2048 by 2048 color resolution, 24 MB frame buffer, includes DB-5-W5 to 5BNC video cable, operating system specific device driver software and manuals.
Raptor 2000-12M	PCI video graphics adapter, 2048 by 2048 color resolution, 12 MB frame buffer, includes DB-5-W5 to 5BNC video cable, operating system specific device driver software and manuals.

Software Available

Raptor OpenWindows for Solaris	Loadable drivers for Sun PCI systems running Solaris 2.6, 7 or 8.
Raptor X Servers for Digital UNIX	Loadable drivers for the Digital/Compaq Alpha workstations running Tru64 UNIX 4.0f, 5.0, 5.1.
Raptor X11R6.1 for IBM AIX	Complete X11R6.1 environment with loadable drivers for IBM RS/6000 running AIX 4.3.3 and higher.
Raptor Drivers for HP-UX	Loadable drivers for Hewlett Packard B, C & J class machines running HP-UX 10.20 and HP-UX 11.0.
Raptor Drivers for Linux	Loadable drivers for Red Hat & SUSE Linux on x86 based machines

Specifications

Frame Buffer Size	24MB
Color Lookup Table	1024 entries from a palette of 16.7 million colors
Bits Per Pixel	8, 16 or 24 (software configurable)
Dynamic Color Plane Groups	24
Drawing Processor	Number Nine PCI graphics accelerator
PCI Interface	33 MHz, 32-bit, Revision 2.1
Video Interface	Red, green and blue at RS-343 levels (50 ohm)
Video Sync	Separate sync at TTL levels (75 ohm)
Video Connector	DB-5-W5
Temperature Rating	10 degrees to 50 degrees C (operating) -10 degrees to 70 degrees C (non-operating)
Humidity Rating	10% to 90% (non-condensing)
Power Rating	Less than 25 watts
Physical	12.283 inches x 4.2 inches (PCI long format)

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