



Raptor 1000

1920 x 1080 Color Video Graphics Adapter

Raptor 1000 Features

- Resolution up to 1920 X 1080
- 8/16/24 - Bits Per Pixel
- Hardware Double Buffering
- 12 MB Viewable Frame Buffer
- 24 Independent Overlays
- 1024 Dynamic Colors
- Single Slot PCI Long Card
- Hardware Support for MOX (Multiple Overlay Extension)

Markets

- Air Traffic Management
- Vessel Traffic Control
- Command & Control

Platforms

- Sun UltraSPARC Workstations
- Digital Alpha Workstations

The Tech-Source Raptor 1000 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. The Raptor 1000 is designed for use in 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 1000 offers two-dimensional drawing acceleration for polygons, text and windowing operations. The graphics-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.

Raptor 1000 Technical Specifications

Raptor 1000	PCI video graphics adapter, software configurable resolutions up to 1920 x 1080, 12 MB frame buffer, includes DB-13-W3 to 4BNC video cable, operating system specific device driver software and manuals.
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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.

Specifications

Frame Buffer Size	12 MB
Color Lookup Table	1024 entries
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-13-W3
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 15 watts
Physical	12.283 inches x 4.2 inches (PCI long format)

Tech Source

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