



Raptor 2100

2048 x 2048 Color Video Graphics Adapter With Radar Scan Converter Interface

Raptor 2100 Features

- 2048 x 2048 Resolution
- Drives Sony DDM Monitor
- 8/16/24/32-Bits Per Pixel
- Interfaces with Primagraphics Advantage 2K Radar Scan Converter Card
- 24 MB On-Board Memory
- 32 Independent Overlays
- 2048 Dynamic Colors
- Provides 2 Blend Layers
- Supports Transparent, Translucent & Opaque Layers
- Single Slot PCI Long Card

Markets

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

Platforms

- Sun UltraSPARC Workstations
- Hewlett Packard
- Digital Alpha Workstations
- IBM PowerPC Workstations
- PCs Running Linux

The Tech Source Raptor 2100 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. It is designed for use in high resolution, high performance, color graphics applications such as Air Traffic Management and Vessel Control. Its design and support on various platforms makes it extremely flexible for use in a wide range of functions.

The Raptor 2100 can interface with the Advantage 2K Radar Scan Converter card from Primagraphics to display live radar data in a window. Our unique layering capability allows radar information to be displayed in an independent layer, without affecting graphics data in other layers. The translucency feature facilitates blending of radar data with the underlying graphics.

An advanced ASIC provides the ability to display 2048 indexed colors. That's eight times the number of colors available in

traditional graphics systems! Specialized frame buffer layering hardware allows for complete control of up to 32 independently addressable overlays with dynamic priority adjustment.

The Raptor 2100 offers 2D drawing acceleration for polygons, text and windowing operations. The co-processor can generate in excess of 900,000 X Window System characters/sec, providing the ability to manage over 2,000 targets/tracks in real time.

Multiple overlay configuration is supported through the published X Extension called MOX (Multiple Overlay Extension). Double buffering is available 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 2100 Technical Specifications

Raptor 2100-24M

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.

Software Available

Raptor OpenWindows for Solaris

Loadable drivers for Sun PCI systems running 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	24 MB
Color Lookup Table	2048 entries from a palette of 16.7 million colors
Bits Per Pixel	8, 16 or 24 or 32 (software configurable)
Dynamic Color Plane Groups	32
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)
Radar Scan Converter Interface	100 pin IDC connector (.025" pitch)
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)

Tech Source

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