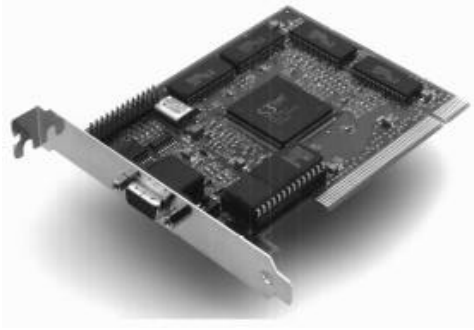
Product Specifications

VOYAGER 64

64-BIT LIGHTNING FAST GRAPHICS ACCELERATOR



Product Code: SVGP64

The Voyager 64 is a high performance PCI graphics accelerator which provides accelerated performance in all display modes. 2MB of display memory allows the Voyager 64 to display 16M colors at 800 x 600 resolution. The Voyager's high performance is realized by the use of a 64 Bit Hardware BitBLT engine. The Voyager 64 conforms to the PCI Local Bus 2.0 specification.

The Voyager 64 is based on a highly integrated S3 Trio64^{tm} architecture. The Trio64^{tm} contains an integrated RAMDAC and Dual Clock Generator. The Trio64^{tm} has a 64 Bit memory interface which provides 228 MB/second bandwidth for support resolutions up to 1600 x 1200, color depths up to 16M colors, and refresh rates up to 75Hz non-interlaced.

Users of high-performance CAD, Animation, and 3D Modeling applications will benefit from the high-level performance offered by the Voyager 64. Drivers are provided for support of major GUIs and applications such as, AutoCAD, Windows 3.1, Windows 95, Windows NT, and 0S/2. A DOS-based application called VREFRESH allows you to set or change the display refresh rate. You can also enable/disable the feature connector and DPMS (Display Power Management signaling) support.

System Requirements

- 486- or Pentium-based PC with PCI 2.0 compliance
- DOS 5.0 or later
- 4MB minimum RAM recommended for Windows
- 4-6MB for Autodesk applications (minimum) in addition to memory required by other applications
- Video monitor capable of the desired resolution

VESA Support

Software Features

Drivers Provided for the following GUIs and Applications:
AutoCAD V11 (DOS), AutoCAD V12 (DOS)
MicroStation 4.0, MicroStation 5.0, and Windows 3.1.
WIndows NT 3.5 and Windows 95 come with built-in support.

Utilities

- VREFRESH DOS-based refresh setting utility.
- Fcon Feature connector enable/disable utility for DOS.
- Power Manager Screen Saver for Windows.

Hardware GUI Accelerator Functions

- BitBLT
- Solid Line Draw
- Textured Line Draw
- Rectangle Fill
- Short Stroke Vector line draw
- Polyline (two Point Line Draw)
- Polygon Fill Solid
- Polygon Fill Pattern
- 4-Point Trapezoid Fill Solid
- 4-Point Trapezoid Fill Pattern
- Programmable Hardware Cursor

Also included: Any View Professional^{tm} Binar Graphics!

See your system's graphics display run up to 25% faster. With Any View, switching between color depths and resolutions is as easy as the click of a button—your display changes instantly.

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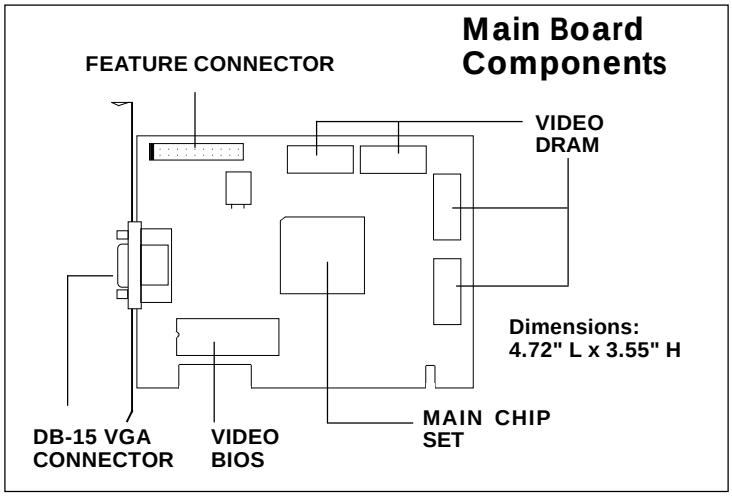

EPA Energy Star-Compatible

Support for the EPA "Energy Star" requirements is provided via VESA DPMS support in the BIOS. The Voyager 64 can place a DPMS compliant monitor into power savings mode, thus reducing the overall power consumption of the display monitor.

Memory

- 64 Bit wide memory interface
- 2MB of display memory.

Hardware Features

Maximum Resolutions/Color Depths Supported (Non-Interlaced):

- 1280 x 1024 X 256 Colors
- 1024 x 768 x 64K Colors
- 800 x 600 x 16M Colors

Maximum Resolution/Color Depth Supported (Interlaced):

- 1600 x 1200 x 256 Colors

Maximum Clock Frequencies

- Dot Clock 135 Mhz
- Memory Clock 57Mhz

Package Includes:

- SVGP64 board
- driver diskette
- installation manual
- DDC Monitor Communications Support
- Standard VESA Feature Connector
- VESA 1.2 BIOS with DPMS (Display Power Management Signaling) monitor support mode. Monitor Plug-n-Play is supported by the VESA DDC (Display Data Channel) support in the hardware and BIOS. The VESA DDC support allows the video subsystem to sense the modes available by the DDC compliant monitor, and only allows the Voyager 64 to be placed in those modes.

Video Modes Provided by the Voyager 64

Mode	Screen Resolution	Colors	Refresh Rate (Hz)
10A	132 x 43 characters	16	70
109	132 x 25 characters	16	70
100	640 x 400	256	70
101	640 x 480	256	60, 72, 75
102	800 x 600	16	56, 60, 72, 75
103	800 x 600	256	56, 60, 72, 75
104	1024 x 768	16	43 (I), 60, 70, 75
105	1024 x 768	256	43 (I), 60, 70, 75
106	1280 x 1024	16	45 (I)
107	1280 x 1024	256	45 (I), 60, 72, 75
110	640 x 480	32,768	60, 72, 75
111	640 x 480	65,536	60, 72, 75
112	640 x 480	16.7M	60, 72, 75
113	800 x 600	32,768	60, 72, 75
114	800 x 600	65,536	60, 72, 75
115	800 x 600	16.7M	60, 72, 75
116	1024 x 768	32,768	43 (I), 60, 70, 75
117	1024 x 768	65,536	43 (I), 60, 70, 75
120	1600 x 1200	256	48.5 (I)
201	640 x 480	256	60, 72, 75
202	800 x 600	16	56, 60, 72, 75
203	800 x 600	16	56, 60, 72, 75
204	1024 x 768	16	43 (I), 60, 70, 75
205	1024 x 768	256	43 (I), 60, 70, 75
207	1152 x 864	256	60
208	1280 x 1024	16	43 (I), 60, 72, 75

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