NEXTSTEP for Intel Processors Release 3.3
Display Driver Overview

Driver: Diamond Stealth64
Driver Overview: NeXTanswer #1782
Last Update: March 25, 1996

Availability Information

A version of this driver is on the CDROM
Newer Released Driver in NeXTanswers: No, Version 3.30, as NeXTanswer #
Newer Beta Driver in NeXTanswers: No, Version 0.00, as NeXTanswer #

Driver Name / Installer .pkg: DiamondStealth64DisplayDriver
Driver Type: Display
Driver Scope: Product Family
Supported Components: S3 964 (Vision)
PC Bus / Interface Supported by Driver*: PCI, VL-Bus

General Overview notes: This graphics driver is designed to support the VL-Bus & PCI versions of the Stealth 64 Graphics adapters from Diamond Computer Corp. These cards are based on the S3-964 graphics controller chipsets and support 2MB or 4 MB of VRAM. This driver supports both configurations including a variety of high-resolution and high-color (32bit) modes. DRAM-based cards are not supported.

The current version of this driver, which is present on the NEXTSTEP 3.3 CD-ROM, is v3.30

Supported Products / Add-on Adapters:
Diamond Stealth 64 (PCI, 4MB VRAM)
Diamond Stealth 64 (PCI, 2MB VRAM)
Diamond Stealth 64 (VL-Bus, 4MB VRAM)
Diamond Stealth 64 (VL-Bus, 2MB VRAM)

Supported Products / Systems (ie integrated into PC System):

Special Features of Driver / Driver Notes:
This driver also works with the Spider Tarantula 64PCI display adapter

Display Driver Details

Supported Connectors: 15-pin High Density (VGA)
Access Mode: Linear Framebuffer
Adapter Memory: 2MB VRAM, 4MB VRAM

Display Modes (Number in () after resolution indicates frame buffer size required)

32 Bit Color Modes*:
1024x768 (4MB+), 1152x864 (4MB+), 640x480 (2MB+), 800x600 (2MB+)

16 Bit Color Modes*:
1024x768 (2MB+), 1152x864 (2MB+), 800x600 (1MB+)

8 Bit Color / Greyscale Modes*:
1024x768 (1MB+), 1152X864 (1MB+), 1280x1024 (2MB+), 1600x1200 (2MB+), 800x600 (1MB+)

Known Problems

· Diamond has changed the PCI deviceID on their newer Stealth adapters.   This will cause autodetection to fail, thus the NEXTSTEP driver will defualt to VGA display mode.   Under NEXTSTEP 3.3, the workaround is to click Expert... while inspecting the driver in Configure.app, then modify the value of the Auto Detect setting to read 0x88d05333 0x88d15333 0x88f05333.

· Diamond has produced new versions of the Stealth64 which use different S3 video controllers.   Version 3.31 (or later) of the DiamondStealth driver is needed to support these cards.

· Diamond Stealth 64 Series 2001 does not use an S3 controller, it uses the ARK Logic which is not supported.

See Also: 3.2 README 1587_DiamondStealth64DisplayDriver.ReadMe.rtf

Driver Version Notes

Future Planning

Future / Update Planning:
Reason for New Driver / Update:
New Driver / Update Timeframe:

New Driver / Update Description:

Note: Information contained in the "Future Planning" section of this document does not constitute a commitment on the part of NeXT to complete the planned development work.

* - Indicates information that is inclusive of the entire capability of this driver. Not all devices supported by this driver may include all features listed. Check any available NeXTanswers and the hardware manual for the device for additional information.

Product Vendor
Diamond Computer Systems
1130 East Arquez Ave.
Sunnyvale, CA 94086
USA

+1 (408) 736 2000 international phone
+1 (408) 730 5750 fax
+1 (408) 730 1100 bbs 2400 baud
+1 (408) 524 9301 bbs 9600+ baud

WWW: http://www.diamondmm.com/