

NEXTSTEP for Intel Processors Release 3.3

Display Driver Overview

Driver: Matrox MGA Millennium

Driver Overview: NeXTanswer #1974

Last Update: December 11, 1997

Availability Information

Newer Released Driver in NeXTanswers*: Yes, Version 3.30, as NeXTanswer #1975

Newer Beta Driver in NeXTanswers*: Yes, Version 3.41, as NeXTanswer #2141

Driver Name / Installer .pkg: MatroxMGA2064WDisplayDriver

Driver Type: Display

Driver Scope: Specific Product

Supported Components: Matrox MGA1064SG (Cyclone), Matrox MGA1164SG (Hurricane), Matrox MGA2064W (Storm), Matrox MGA2164W (Mistral), TI TVP3026 RAMDAC

PC Bus / Interface Supported by Driver:** AGP, PCI

General Overview notes: This graphics driver is designed to support the MGA Millennium and Mystique Graphics adapters from Matrox Graphics Inc. It may also support other adapters based on the MGA1064SG, MGA1164SG, MGA 2064W and MGA 2164W Graphics controller chipset from Matrox.

This driver supports the use of 2MB or 4MB of SGRAM for the MGA1064SG based adapters; 2MB, 4MB or 8MB of SGRAM for the MGA1164SG based adapters; 2MB, 4MB, or 8MB of WRAM for the MGA2064W based adapters; and 4MB, 8MB, 12MB, or 16MB of WRAM for the MGA2164W based adapters.

Supported Products / Add-on Adapters:

Matrox MGA Millennium

Matrox MGA Millennium II

Matrox MGA Millennium II AGP

Matrox Mystique
Matrox Mystique 220
Matrox Mystique 220 AGP

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

Special Features of Driver / Driver Notes:

This device driver provides information in the Configure application's help panel. Choose Info>Help from the Configure menu and scroll down to find this device driver's help topic.

Display Driver Details

Supported Connectors: 15-pin High Density (VGA)

Access Mode: Linear Framebuffer

Adapter Memory: 12MB WRAM, 16MB WRAM, 2MB WRAM, 4MB WRAM, 8MB WRAM

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

32 Bit Color Modes:**

1024x768 (4MB+), 1152x864 (4MB+), 1280x1024(8MB+), 1600x1200(8MB+), 1920x1080 (8MB+), 640x480 (2MB+)

16 Bit Color Modes:**

1024x768 (2MB+), 1152x864 (2MB+), 1280x1024 (4MB+), 1600x1200 (4MB+), 1800x1440 (8MB+), 1920x1080 (8MB+), 1920x1200 (8MB+), 640x480 (1MB+)

8 Bit Color / Greyscale Modes:**

1024x768 (1MB+), 1152X864 (1MB+), 1280x1024 (2MB+), 1600x1200 (2MB+), 1800x1440 (4MB+), 1920x1080 (2MB+), 1920x1200 (4MB+), 640X480 (1MB+)

Known Problems

Due to ongoing development and testing of OPENSTEP 4.0, the beta version (v3.31) of this

driver will neither be tested on NEXTSTEP 3.3 nor upgraded to "Released" status.

Driver Version Notes

- 3.30 - Initial Release of this Driver
- 3.31 - Added support for multi-headed displays and 8MB WRAM
- 3.34 - Fixed bugs in PLL locking code. Added 85Hz modes. Added HDTV resolutions.
- 3.36 - Added support for the MGA2164W (Millennium II) chipset.
- 3.37 - Updated pixel/system clock routines, and EPROM parsing.

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.

* - Any NeXTanswer number that is blank indicates that a driver will not be released for this version of NEXTSTEP.

** - 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

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