

# NEXTSTEP for Intel Processors Release 3.3

## Display Driver Overview

**Driver:** ATI Mach64

**Current Availability:** Released

**Driver Location (if not on CDROM):** NeXTanswer #1734

**Driver Overview:** NeXTanswer #1735

**Last Update:** April 5 1995

**Driver Name / Installer .pkg:** ATIMach64DisplayDriver.config

**Driver Type:** Display

**Driver Scope:** Generic-Chipset

**Component Supported:** Mach64 (88800)

**Component Manufacturer:** ATI

**PC Bus / Interface Supported by Driver\*:** PCI, VLB

**General Overview notes:** This new graphics driver is designed to support a variety of graphics adapters using the ATI 88800 graphics controller. Adapters based on the 88800 GX/CX (also known as the Mach64) graphics controller chipset can support 1MB, 2MB or 4 MB of VRAM or DRAM. This driver supports a variety of configurations including high-resolution and high-color (32bit) modes and several RAMDAC, frame buffer and interface bus (PCI and VL-Bus only) configurations. Due to the wide range of possible combinations, only a few specific adapters will be tested by NeXT. Although this driver may work with most 88800 GX/CX based adapters, NeXT will only support the specific adapters tested by NeXT.

### **Supported Products / Add-on Adapters:**

ATI Graphics Ultra Pro Turbo (PCI, with 2MB VRAM)

ATI Graphics Ultra Pro Turbo (PCI, with 2MB DRAM)

ATI Graphics Ultra Pro Turbo (PCI, with 4MB VRAM)

ATI Graphics Ultra Pro Turbo (PCI, with 4MB DRAM)

ATI Graphics Ultra Pro Turbo (VL-Bus, with 4MB VRAM)

ATI Graphics Ultra Pro Turbo (VL-Bus, with 4MB DRAM)

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

AT&T Globalyst 600

## **Special Features of Driver / Driver Notes:**

## Display Driver Details

**Frame Buffer Sizes Supported\*:** 2MB DRAM, 2MB VRAM, 4MB DRAM, 4MB VRAM

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

### **32 Bit Color Modes\*:**

640x480 (2MB+), 800x600 (2MB+)

### **16 Bit Color Modes\*:**

1024x768 (2MB+), 1152x896 (2MB+), 800x600 (1MB+)

### **8 Bit Color / Greyscale Modes\*:**

1024x768 (1MB+), 1152x896 (1MB+), 1280x1024 (2MB+), 1600x1200 (2MB+), 800x600 (1MB+)

### **Supported RAMDAC's\*:**

AT&T 21C498, ATI 68860, BT 481, STG 170x, TLC 34075

## **Additional Display Driver Notes:**

## Known Problems

For ATI Mach64 PCI with BIOS rev 113-25522-100, the screen was unusually dark and very noisy. Adapters with BIOS rev 113-25503-101 did not demonstrate these problems during testing.

Here are the RAMDAC's that do work:

ST  
STG1702J-13Z  
H22AA9401

ATI  
2146886000  
SGR\*8BJAAH01  
H52JB9414

ATI  
ATI-68860  
2146886000  
SGR\*8BJAAH01  
H5D4B9406

Here are RAMDAC's that doesn't work:

ATI  
21468860x0  
SGR\*8BKNAH01  
A223B9501  
J442DFJ

## 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.