

# OPENSTEP for Mach Intel Processors

## Release 4.x

### Display Driver Overview

**Driver:** Cirrus Logic GD5434

**Driver Overview:** NeXTanswer #2229

**Last Update:** December 18, 1997

### Availability Information

**A version of this driver is on the CDROM**

**Newer Released Driver in NeXTanswers\*:** Yes, Version 4.01, as NeXTanswer #2231

**Newer Beta Driver in NeXTanswers\*:** No, Version 0.00, as NeXTanswer #

**Driver Name / Installer .pkg:** CirrusLogicGD5434DisplayDriver

**Driver Type:** Display

**Driver Scope:** Generic-Chipset

**Supported Components:** Cirrus Logic GD5430, Cirrus Logic GD5434, Cirrus Logic GD5436, Cirrus Logic GD5446

**PC Bus / Interface Supported by Driver\*\*:** Integrated, PCI, VL-Bus

**General Overview notes:** This driver is intended to support on-board implementations of GD5434 as well as add-on adapters.

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

Diamond SpeedStar 64 (PCI)

Orchid Kelvin 64 (with GD5434)

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

Elonex WS4100

Intel Premier (with integrated GD5434)

HP Vectra XM Series3 (not tested but reported to work)

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

Because this chip has an integrated RAMDAC with only an 8 bit palette, Preferences's Brightness slider (and hardware gamma correction in general) doesn't work for any non-8 bit modes. Also 32-bit color modes (where supported) look dark. There is no fix for these problems.

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:** 1MB VRAM, 2MB 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+), 1152x864 (2MB+), 800x600 (1MB+)

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

1024x768 (1MB+), 1280x1024 (2MB+), 800x600 (1MB+)

**Known Problems**

Cirrus Logic GD5430 and GD5436 are not supported but is reported to work with this driver.

The GD5436 & GD5446 do not support 32 bit color modes. Only 8 & 16 bit modes are available for adapters based on these chips.

**Driver Version Notes**

- 3.31 - Added support for PCI cards and 8 bit color
- 4.00 - Released on OPENSTEP 4.0 User CD-ROM
- 4.01 - Added support for GD5446 chipset

## 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

Cirrus Logic, Inc.  
3100 West Warren Avenue  
Fremont, CA 94538  
510-623-8300  
fax: 510-252-6020

URL: [www.cirrus.com](http://www.cirrus.com)