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Trident Cyber 9397 DVD 2D/3D Accelerator with LCD Panel controller and PanelLink Sil150 Digital interface using MDR20 Standard Connector

1. SP9397AL Features

High Performance Integrated 2D/3D Graphics and Multimedia Accelerator

- Integrated 64-bit graphics accelerator/24-bit RAMDAC/clock-synthesizer core
- Support resolution up to 1280x1024@85Hz (CRT), SXGA for TFT (LCD)
- 133MHz Sideband AGP
- Supports SGRAM up to 83 MHz 4/8MB display memory configurations @3.3V

3D Graphics Engine

- The 3D engine is integrated with a triangle set-up engine
- 3D Engine accomplishes Gouraud shading to provide smooth shading for colors across surfaces.
- Perspective correction texture mapping
- Bi-linear texture filtering for interpolating
- Alpha blending to compensate colors for the opacity of two colors blended.
- Z-buffering (16-bit/24-bit)
- Video texturing to overlay 2D video play-back onto 3D image.
- Fogging to simulate weather effects.
- Palletized texture mapping(1,4 or 8-bit) for memory and bandwidth reduction.
- Anti-aliasing to reduce or eliminate jaggies resulted from alias rendering

Improved Multimedia Acceleration

- TrueVideo[®] processing is performed by utilizing our proprietary edge recovery algorithm for sharper line visibility, de-interlacing, anti-tearing, multitap horizontal filtering, dithering, and scaling operations with bilinear interpolation in both horizontal and vertical directions

- VMI port for external video transfer, like H/W MPEG1/2 or Video Conference

Support PanelLink Digital interface LCD Monitor.

- VESA P&D™ and VESA FPD1-2™ standard compliant
- Adjustable TMDS™ low-voltage swing signaling for long distance support
- Auto-expansion and centering for VGA text and graphics modes for LCD
- Universal transmitter, operates with Sil151, Sil141, Sil101, Sil201 receivers
- MDR20 PanelLink™ standard connector
- Dual-view and simultaneous displays in 24bit color with mixed video/graphics

Comprehensive Power Management

- DPMS and DDC Monitor communication for Green PC and CRT Plug and Play support

SP9397AL SWITCH SETTING

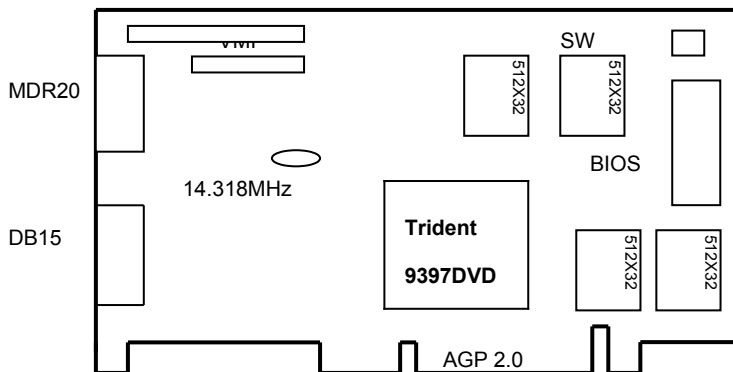
Panel ID	Panel Type	Resolution	SW[1:4]
A	TFT	640 X 480	0000
B	TFT	800 X 600	1000
C	TFT	1024 X 768	0100
D	TFT	1280 X 1024	1100

NOTE: 0 = ON
1 = OFF

2. Board outline

SP9397AL using SGRAM

8MB on board, board size: 161 x 108 mm.



3. Hardware Installation

3.1 Package Contents

1. Trident 9397AL card.
2. CD title or Software diskettes
3. This manual.

3.2 Installing the Card

1. Turn off your computer.
2. Remove the cover of the computer per the owner's manual.
3. Install the card in the AGP bus slots.
4. Replace the cover.

3.3 Resolutions and colors supported:

9397AL AGP bus VGA cards are fully compatible VGA with the addition of Hi-Color and True Color modes depending on the amount of video memory stalled. The amount of memory needed to display various resolutions is shown below

Note: ✓ : Supported and accelerated by the graphics engine

X : Mode not Supported

Resolution & Colors	BPP	4MB SGRAM	8MB SGRAM
640X480-256	8	✓	✓
640X480-64K	16	✓	✓
640X480-16M	32	✓	✓
800X600-256	8	✓	✓
800X600-64K	16	✓	✓
800X600-16M	32	✓	✓
1024X768-256	8	✓	✓
1024X768-64K	16	✓	✓
1024X768-16M	32	✓	✓
1280X1024-256	8	✓	✓
1280X1024-64K	16	X	✓
1600X1200-256	8	✓	✓

4. Smart Installation

4.1 Put the Smart Installation CD in your CD-ROM

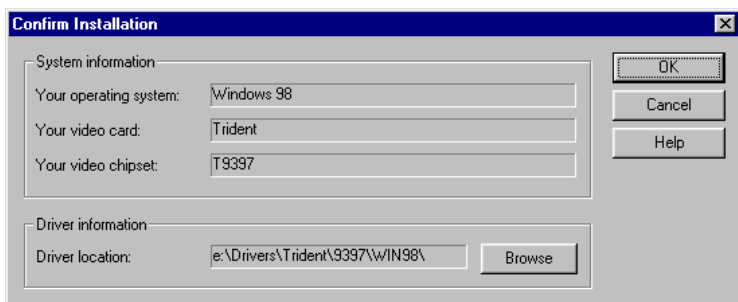


- 4.2 Select the language for you.** Default is same as system language.
(Click small UP/DOWN arrow for more languages)
Then click the **Driver installation** button



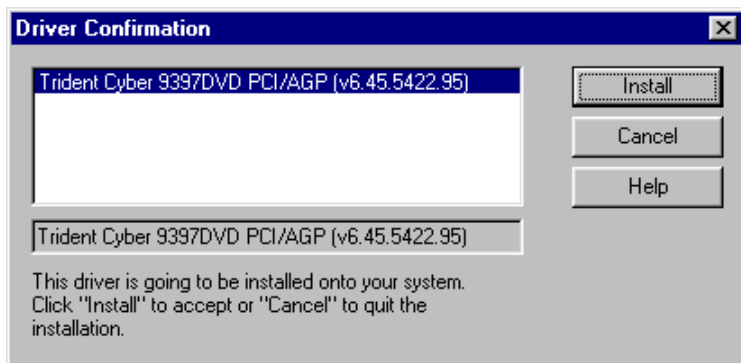
4.3 Comes up the Confirm Installation window

Click **OK**, if the information and driver location is fine.



4.4 The Driver Confirmation window

Then click **Install** button



4.5 Install complete, please restart your computer.

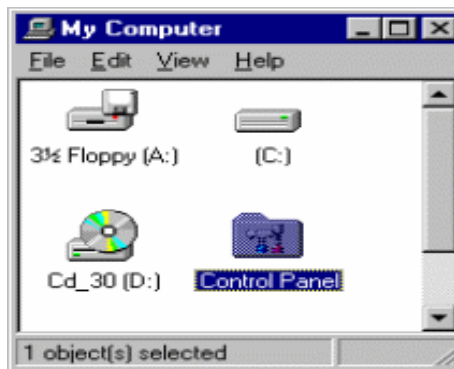
5. Manually install Windows 95 & Windows 98 drivers

5.1 Installation and Setup

5.1.1 Windows95 VER: OSR2.5

The Windows setup program installs and modifies all of the necessary files. Follow these steps to install the Windows 95 driver.

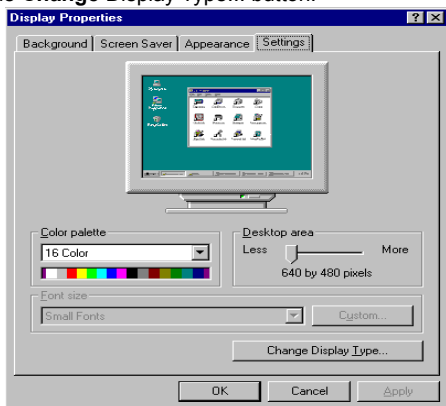
- Insert the "Window 95 Driver" Installation Diskette or DISC (CD Title Driver).
- Select **Control Panel** from the **My Computer** group.



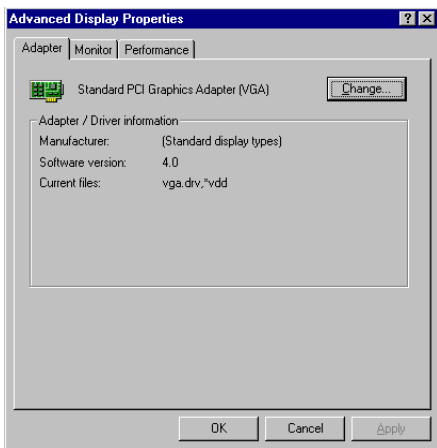
- Select the **Display** icon



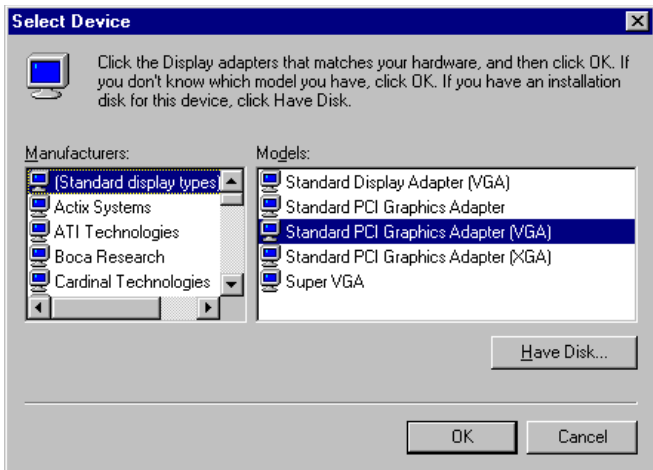
- Double-click on the **Display** icon in the Setting -> **Control Panel** folder. You can also click the right mouse button anywhere on the desktop and select the Properties option from the pop-out menu.
- Click the **Settings** tab.
- Click the **Change Display Type...** button.



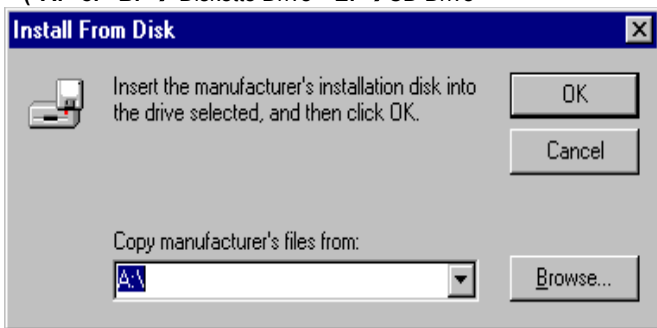
- Click the **Change** button

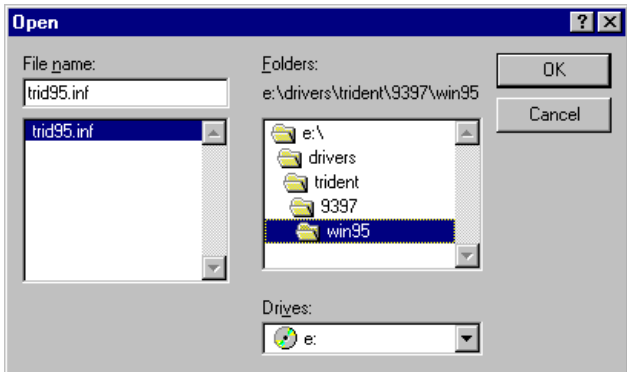


- Click the Have Disk button.



- Change directories and Select Trident Cyber 9397 .
Diskette is **A:** or **B:WIN95** , Disc (CD Title) is **E:\drivers\Trident\9397\WIN95**
- ("**A:**" or "**B:**" → Diskette Drive "**E:**" → CD Drive





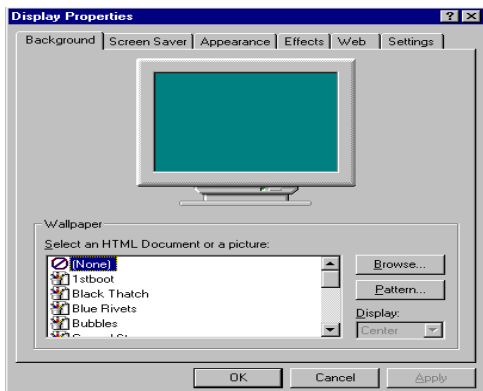
- Select Trident Cyber 9397DVD PCI/AGP driver from the list and click **OK** button. If a message stating that one or more driver files is older than the files on the system respond **YES** to overwrite the files.
- Click the Close button and Apply button, and restart your computer.

5.1.2 Windows98

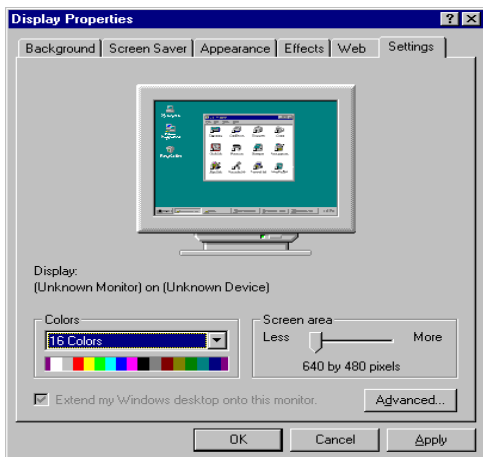
- Select **Control Panel** from **My Computer** group.



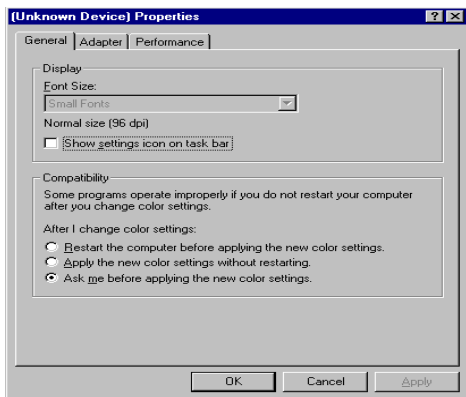
- Select the **Display** icon



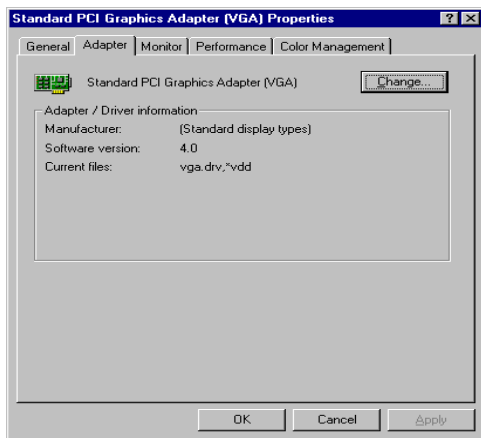
- Double-click on the **Display** icon in the Setting -> **Control Panel** folder. You can also click the right mouse button anywhere on the desktop and select the Properties option from the pop-out menu.
- Click the **Settings** tab.



- Then show **[Unknown Device.] Properties** tab
Select **Adapter**



- Then show **Standard PCI Graphics....** tab
Select **Change**



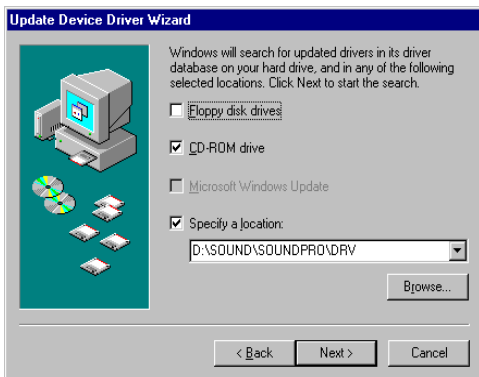
- Then show **Update Device** tab
Select **Next**



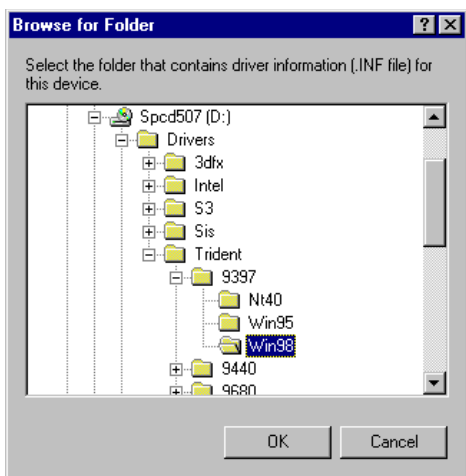
- Then show **Update Device** tab
Select **Search for a better.....**
Then select **Next**



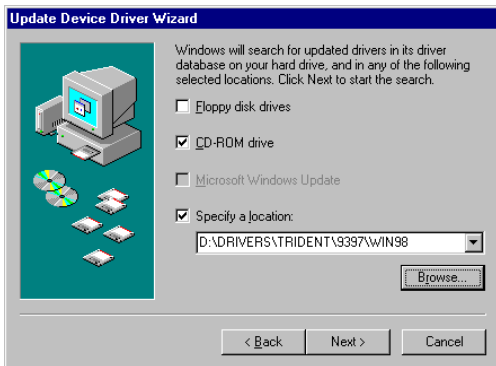
- Then show **Update Device** tab
If the **Specify a location** is wrong
Please select **Browse**



- Then show **Browse for Folder** tab ,Select you need driver
Then select **OK**



- Then show **Update Device Driver Wizard** tab
Select **CD-ROM driver**
Click the **Specify a locator**, if right
Then select **Next**



- Then show **Update Device Driver Wizard** tab
Select **Next**



- Then show **Update Device Driver Wizard** tab
Select **Finish**



- Then show **System Settings Change** tab
Select **OK**

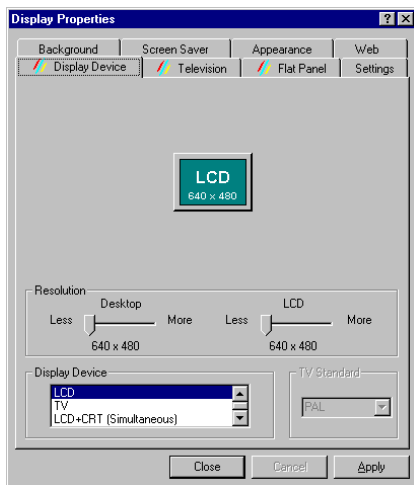


5.2 How to Change Color Depth and Resolution

1. Make sure that you have installed the **WINDOWS95** Driver.
2. Click on the **Start** box in the lower left corner and proceed to **Control Panel**.
3. Inside the **Control panel** group , click on **Display** icon to open the **Display Properties** folder and select the **Setting table**
4. Click on the pull-down arrow from the **Color** palette area to select color depth or adjust the sliding bar to either **Less** or **More** from the **Desktop area**
5. Select **OK** to restart **WINDOWS95** and new color depth or the new resolution takes effect.

5.3 How to Change Display Device

1. Make sure that you have installed the **WINDOWS95** Driver.
2. Click on the **Start** box in the lower left corner and proceed to **Control Panel**.
3. Inside the **Control panel** group , click on **Display** icon to open the **Display Properties** folder and select the **Display Device**



6. Windows NT4.0 Setup

The following steps describe how to install WindowsNT4.0 display drivers

1. Select **Control Panel** from the **Main** group.
2. Select the **Display** icon.
3. Select **Change Display Type**.
4. Select Change from the **Adapter Type** area.
5. Select **Other**.
6. Place the **Windows NT** Installation Disk or Disc (CD Title) into Drive. Click **OK**.
7. Select **Install** and click "**YES**" when the Installing Driver dialog box appears.
8. When the WINDOWS NT **Setup** dialog box appears select driver A or CD ROM, and click "**Continue**".

A message appears stating that drivers were successfully installed. Click **OK**. Another message appears stating that the driver could not be restarted dynamically. Restart **Windows NT** to run the new driver. Click **OK**.

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference. (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Notice:

(1) An Unshielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used.

(2) Use only shielded cables to connect I/O devices to this equipment.

(3) Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Trademark Acknowledgments

All brand names and trademarks are the property of their owners.