AGP-V300C Series

High Speed 3D/2D Graphics Card
with DVD Acceleration

USER'S MANUAL

Hardware & Video Drivers

AGP-V300C / 16MB

USER'S NOTICE

The product name and revision number are both printed on the product itself. Manual revisions are released for each product design represented by the digit before and after the period of the manual revision number. Manual updates are represented by the third digit in the manual revision number.

For previous or updated manuals, BIOS, drivers, or product release information, contact ASUS at http://www.asus.com.tw or through any of the means indicated on the following page.

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Federal Communications Commission Statement

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the 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 manufacturer's instructions, may cause harmful interference to radio communications. 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 to 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.

WARNING! The use of shielded cables for connection of the monitor to the graphics card is required to assure compliance with FCC regulations. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Canadian Department of Communications Statement

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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I. Introduction

Thank you for purchasing an ASUS V300C High Speed 3D/2D Graphics Card with DVD Acceleration.

Powered by Silicon Integrated Systems Corp. (SiS) SiS305 128-bit real 3D/2D/Video/ DVD accelerator chip, the ASUS V300C is designed for value-conscious graphics enthusiasts.

Using the SiS chip, the ASUS V300C delivers high-powered 3D and 2D graphics performance, making it ideal for high-powered desktop PC users.

With the ASUS V300C, you will not only see but also experience dynamic, realistic 3D worlds and characters.

Highlights

- New SiS305 128-bit 3D graphics accelerator
- 270 MHz RAMDAC
- High performance DVD playback
- Full support for DirectX7 & OpenGL
- Optional upgrade kit — ASUS DVD player

Available Model

ASUS V300C

- 16MB Frame Buffer
- VGA

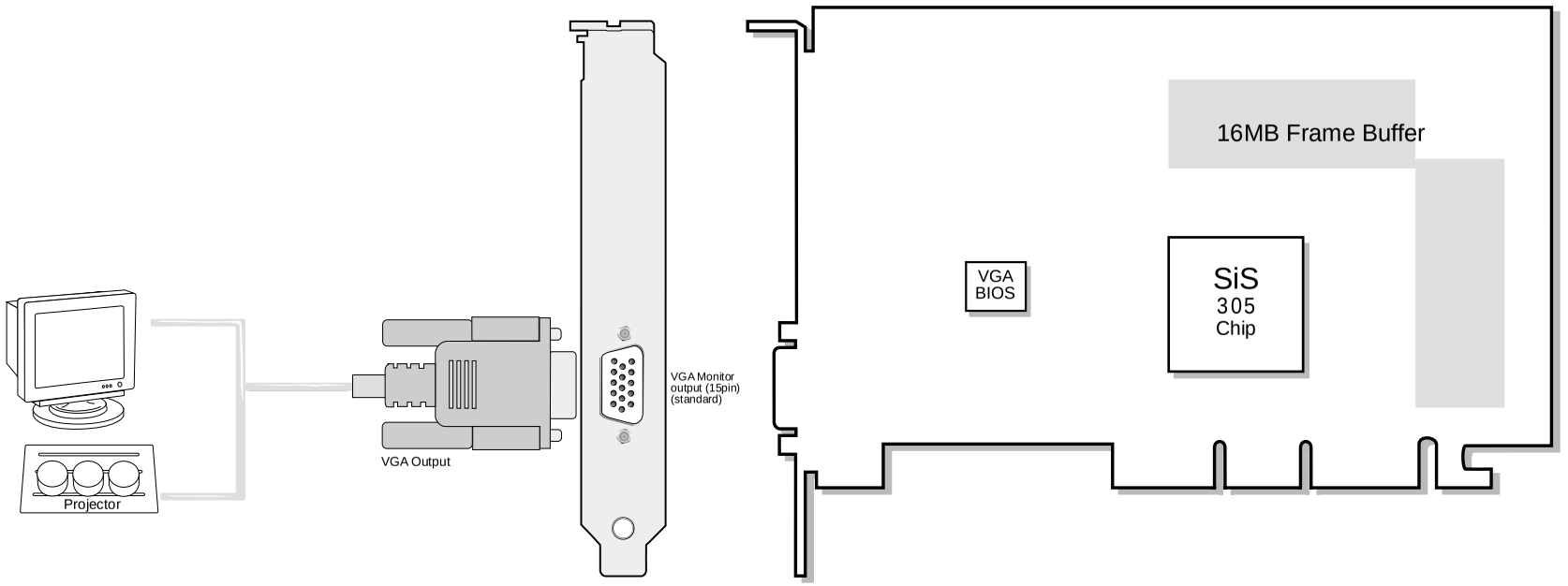
I. Introduction

Features

- 2D/GUI/DirectDraw Acceleration
- Full featured 64-bit BitBLT Engine and 128-bit 3D engine
- Turbo Queue Architecture with 2D engine to solve 3D and 2D command order problem
- Multi buffering (Double, Triple, Quad buffering) for smooth animation
- Burst frame buffer read/write
- Up to 133 MHz 3D engine clock and 125 MHz memory clock
- Peak polygon rate: 4M polygon/sec @ 1 pixel/polygon with 16 bpp, bilinear textured, Z buffered, and alpha blended
- Individual Z-buffer and render buffer at the same time
- High precision 32/24/16 bpp Z buffer integer/floating formats
- Per-Pixel perspective texture mapping (Fog, Lighting, Mipmapping)
- MipMAP with point-sampled, linear, bi-linear, and tri-linear texture filtering
- Single pass two MipMAP texture
- Anti-aliasing: sort dependent edge, full scene
- Windows 95/98, Windows NT4.0 with Service Pack 3.0 Display Driver, including full DirectX7, and OpenGL ICD

ASUS AGP-V300C Layout

16MB Frame Buffer



Item Checklist

- ☑ ASUS AGP-V300C Graphics Card
- ☑ This User's Manual
- ☑ ASUS AGP-V300C Series Driver & Utility CD Disc

NOTE: This graphics card series can only be installed in motherboards with an AGP slot.

WARNING! Computer boards and components contain very delicate Integrated Circuit (IC) chips. To protect the computer board and other components against damage from static electricity, you must follow some precautions.

1. Make sure that you unplug your power supply when adding or removing expansion cards or other system components. Failure to do so may cause severe damage to both your motherboard and expansion cards.
2. Keep all components such as the host adapter in its antistatic bag until you are ready to install it.
3. Use a grounded wrist strap before handling computer components. If you do not have one, touch both of your hands to a safely grounded object or to a metal object, such as the power supply case. Hold components by the edges and try not to touch the IC chips, leads, or circuitry.
4. Place components on a grounded antistatic pad or on the bag that came with the component whenever the components are separated from the system.

Installation Procedures

New Systems

1. Unplug all electrical cords on your computer.
2. Remove the system unit cover.
3. Locate the AGP bus expansion slot. Make sure this slot is unobstructed.
4. Remove the corresponding expansion slot cover from the computer chassis.
5. Ground yourself to an antistatic mat or other grounded source .
6. Pick up the board (still in its sleeve) by grasping the edge bracket with one hand and then remove the plastic sleeve.
7. Position the card directly over the AGP slot and insert one end of the board in the slot first. Firmly but gently press the bus connector on the bottom of the card down into the slot. Be sure the metal contacts on the bottom of the host adapter are securely seated in the slot.
8. Anchor the board's mounting bracket to the computer chassis using the screw from the slot cover that you set aside previously.
9. Replace the cover on the system unit.
10. Connect your analog monitor's 15-pin VGA connector to the card and fasten the retaining screws (if any).
11. Connect other cables and devices if available -You are now ready to install the software drivers and utilities.

Systems with Existing VGA Card

1. Change your display driver to Standard VGA.
2. Shut down your computer and unplug all electrical cords.
3. Replace the existing VGA card with your graphics card.
4. Restart your computer.
5. Install the ASUS V300C series display driver.

Operating System Requirements

NOTE: This graphics card requires a motherboard with an AGP slot.

Windows 98

Windows 98 supports full Direct3D and AGP features. If you are still using the beta version of Windows 98 and you want to fully take advantage the Direct3D and AGP features, you must upgrade your current Windows to the release version before installing the AGP display driver.

Windows 98 includes VGARTD for the major chipsets but it is recommended that you install VGARTD from the ASUS V300C Series CD to make sure that you have the latest version of VGARTD (*see* **III. Software Setup | Display Driver Installation** | **Windows 98**).

NOTES

- VGARTD stands for Virtual Graphics Address Remapping Table Driver, which is necessary to use the DIME feature of AGP. DIME means Direct Memory Execute, which is accessed *directly* by most AGP chips (when VGARTD is installed) for complex texture-mapping operations
- This Manual assumes that your CD-ROM disc drive is drive D: and that Windows is in C:\WINDOWS. Replace either with the actual location, if necessary.

Display Driver Installation

You can use one of the recommended methods to install the display drivers for your ASUS V300C series graphics card, depending on your operating system.

NOTE: The screen displays in this manual may not reflect exactly the screen contents displayed on your screen. The contents of the support CD are subject to change at any time without notice. The procedures assume that your CD-ROM drive is drive D:.

Windows 98

IMPORTANT! The appropriate AGP GART driver must be installed first if your motherboard does not use the Intel AGPset. Installing the AGP GART driver will ensure that the AGPset's AGP functions are available. To install,

1. Insert the CD installation disc into your CD-ROM drive.
2. Click **Start** button, and then click **Run**.
3. In **Open**, type D:\VGARTD\VGINST.EXE and then click **OK**. Follow the onscreen instructions to finish setup.

Method 1: ASUS Quick Setup Program

1. Start Windows.
2. Switch display to Windows' Standard Display Adapter (VGA) mode and then restart Windows.
3. Insert the CD installation disc into your CD-ROM drive.
4. Click **Start** button, and then click **Run**.
5. In **Open**, type D:\WIN9X\SETUP.EXE and then click **OK**. The ASUS Multimedia Package Setup program opens.
6. Follow the onscreen instructions to complete the setup.
7. When Setup has finished installing all the necessary files on your computer, it will prompt you to restart your computer. Click **Yes...** and then **Finish** to restart your computer and to complete Setup.

Method 2: Display Property Page

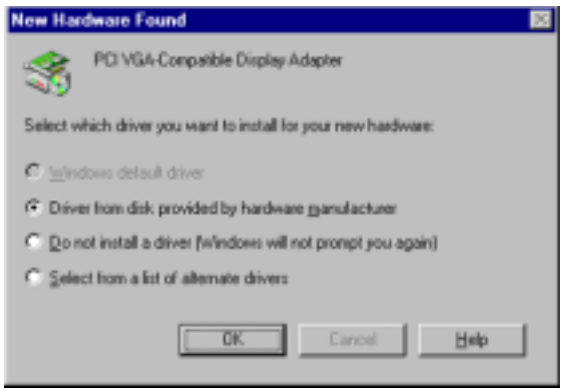
1. Start Windows.
2. Switch display to Windows' Standard Display Adapter (VGA) mode and then restart Windows.
3. Right-click the Windows desktop and click **Properties**.
4. Click the **Settings** tab and then click **Advanced**. The **Standard Display Adapter (VGA) Properties** dialog box appears.
5. Click **Change** on the **Adapter** tab. The **Update Device Driver Wizard** dialog box appears. Click **Next**, click **Display a list of all the drivers**... and then click **Next**.
6. Click **Show all hardware** and then click **Have Disk...**.When the **Install From Disk** dialog box appears, type the location of the SIS300M.INF file (D:\WIN9X\WIN98) and then proceed to step 9. Otherwise, proceed to the next step.

7. Click **Browse** to search the CD-ROM drive. In the **Drives** box of the **Open** dialog box, select your CD-ROM drive and then click **OK**.
8. In the **Folders** box, double-click the WIN98 subfolder of the WIN9X and then select SIS3000M.INF in the **File name** box.
9. Click **OK**. A list of video cards appears. Select your VGA card type for your operating system and then click **OK**.
10. The **Update Driver Warning** box appears. Click **Yes** to confirm the setting up of the ASUS enhanced display drivers and then follow the onscreen instructions to start the setup.
11. Setup will prompt you when it has finished installing all the necessary files on your computer. Click **Finish** to close Setup.
12. When you are returned to the **Standard Display Adapter (VGA) Properties** box, click **Close**. The **Display Properties** box appears. Click **Close**.
13. The system will prompt you to restart your computer. Click **Yes** to restart your computer and to complete Setup.

Method 3: Plug and Play

NOTE: Before proceeding with these steps, replace first your old VGA card with an ASUS V300C series graphics card.

1. Start Windows.
2. When Windows detects your ASUS V300C series graphics card, the **New Hardware Found** dialog box appears.
3. Click **Driver from disk provided by hardware manufacturer**.
4. When Setup prompts you for the location of the driver, type D:\WIN9X\WIN98 to direct Setup to the INF file and then click **Finish** to install the driver.



5. When Setup has finished installing all the necessary files on your computer, it will prompt you to restart your computer. Click **Yes** to restart your computer and to complete Setup.

Windows 2000

Method 1: ASUS Quick Setup Program

1. Start Windows.
2. When Windows detects your ASUS graphics card, the **Found New Hardware Wizard** dialog box appears.
3. Click **Cancel** to enter the Windows desktop.
4. Insert the CD installation disc into your CD-ROM drive.
5. Click **Start** button, and then click **Run**.

6. In **Open**, type D:\WIN2000\SETUP.EXE and then click **OK**. The ASUS Multimedia Package Setup program opens.
7. Follow the onscreen instructions to complete the setup.
8. When Setup has finished installing all the necessary files on your computer, it will prompt you to restart your computer. Click **Yes...** and then **Finish** to restart your computer and to complete Setup.

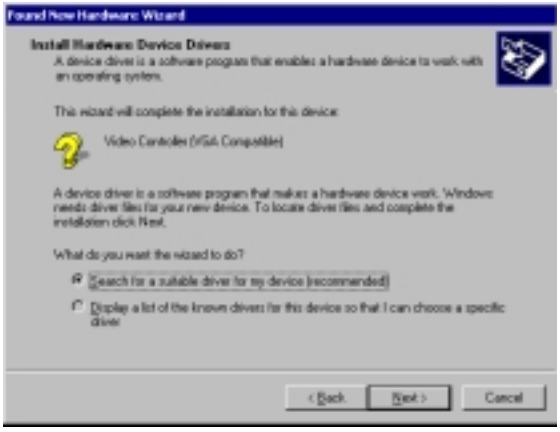
Method 2: Plug and Play

1. Start Windows.
2. When Windows detects your ASUS graphics card, the **Found New Hardware Wizard** dialog box appears.

3. Click **Next**.

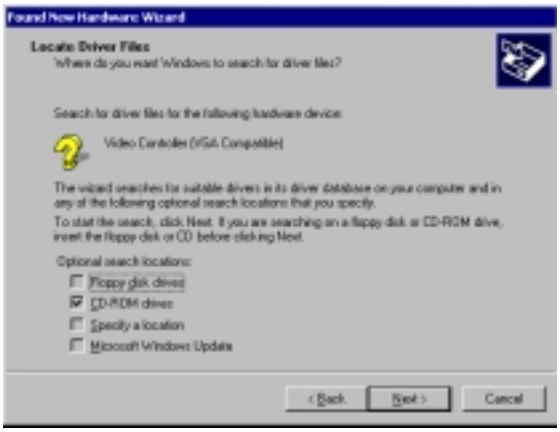
4. When the next **Found New Hardware Wizard** dialog box appears, select **Search for a suitable driver for my device (recommended)**.

   Click **Next** to open the **Locate Driver Files** item of the **Found New Hardware Wizard** dialog box.

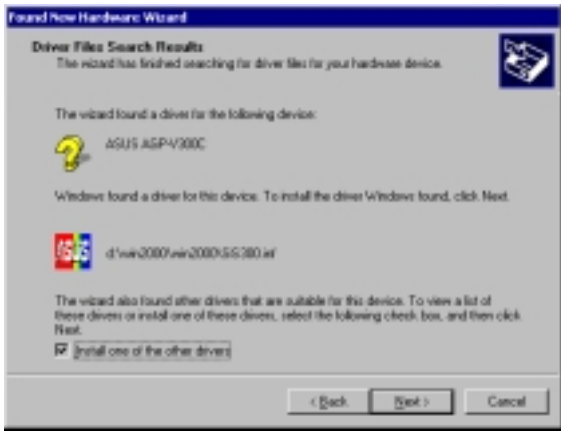


5. Insert the CD installation disc into your CD-ROM drive when the **Locate Driver Files** item of the **Found New Hardware Wizard** dialog box appears.

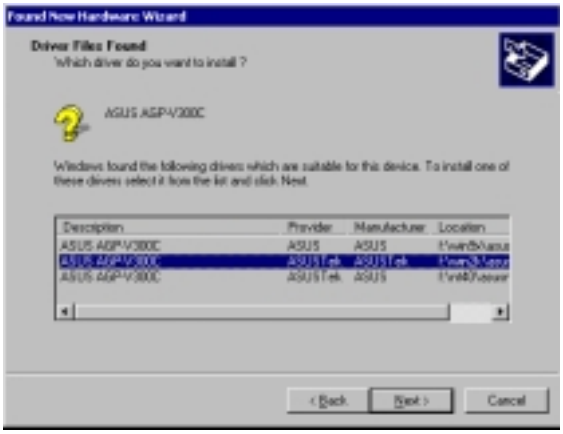
6. Check **CD-ROM drivers**, uncheck all other options and then click **Next** to search for the drivers of your graphics card.



7. When the wizard has finished searching for driver files for your graphics card, select **Install one of the other drivers** and then click **Next** from the **Driver Files Search Results** item of the **Found New Hardware Wizard** dialog box.



8. When prompted to select the display driver to install in your system, select the one that is located in the D:\WIN2000\WIN2000 folder and then click **Next**.



9. Follow the onscreen instructions to complete the setup.
10. When Setup has finished installing all the necessary files on your computer, it will prompt you to restart your computer.

    Click **OK** to restart your computer and to complete Setup.

Windows NT 4.0

Method 1: Display Property Page

WARNING! Before installing the display driver in Windows NT 4.0, make sure that you have installed **Windows NT 4.0 Service Pack3 or later, to take full advantage of your card's AGP features.** (You may download service packs at http://www.microsoft.com/ntworkstation/downloads.**)**

NOTE: The following steps assume your CD-ROM drive letter is D.

1. Start Windows NT, switch display properties to VGA mode (16 colors, 640 x 480 pixels), then restart your computer to make the change.
2. After your computer restarts, right-click the desktop and click **Properties**.
3. Click the **Settings** tab.
4. Select **Change Display Type**.
5. Select **Adapter Type** and click **Change**.
6. Click **Have Disk**.
7. Insert the CD installation disc.
8. Type **D:\NT40** or click **Browse** to select the path of the display driver for Windows NT. Click **OK.**
9. Select SIS300.INF and then click **OK**.
10. Windows NT will once again prompt for confirmation. All appropriate files are then copied to the hard disk. When all files are copied, go back to the **Display Properties** box by clicking **Close**. Click **Apply.**
11. The **System Settings Change** dialog box is displayed. Click **Yes** to restart Windows.
12. Windows NT will restart with the default settings. The Display applet will appear to allow for mode selection.

Setup Components

Windows 98

Setup will install the following components:

Utilities

- Display Settings
- Gamma Correction
- TV Output
- Video Setting
- 3D Setting
- Information
- Settings Manager
- OSD
- Hot Key
- TV Zoom In/Out

DirectX

Wallpaper

If you do not wish change your current wallpaper, select custom installation and clear the **Wallpaper** checkbox.

Windows 2000

Setup will install the following components:

Utilities

- Center Screen
- Driver Mode
- Gamma
- Video Setting
- Information

Wallpaper

If you do not wish change your current wallpaper, select custom installation and clear the **Wallpaper** checkbox.

Windows NT 4.0

Setup will only copy the display drivers.

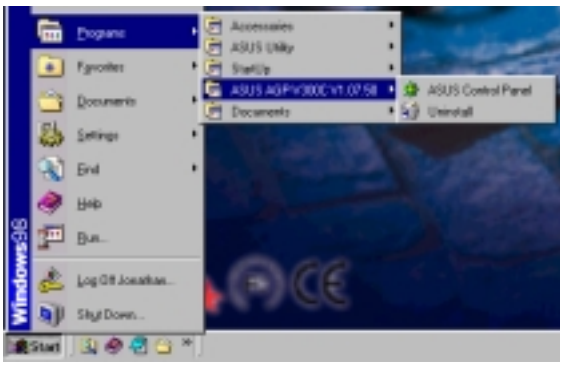
Uninstall Display Driver

If you want to update your display drivers or if you no longer need the display drivers for your card, you can use one of the following procedures to completely uninstall the drivers from your system to save disk space.

Windows 98

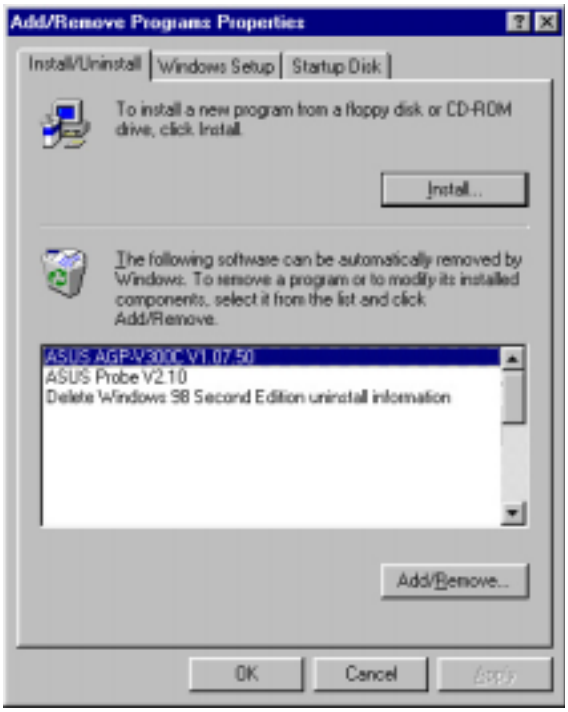
Method1: Using the Uninstall Utility

1. Click **Start**, point to **Settings**, **Programs**, and then **ASUS AGP-V300C Vx.xx.xx**.
2. Click **Uninstall** and follow the on-screen directions to complete uninstallation.



Method 2: Using Control Panel

1. Click **Start**, and then point to **Settings**.
2. Click **Control Panel**.
3. Double-click the **Add/Remove Programs** icon.
4. Click the **Install/Uninstall** tab.
5. Click **ASUS AGP-V300C Vx.xx.xx** from the list**.**
6. Click **Add/Remove**.
7. The system will prompt you to restart your computer. Click **Yes** to restart.

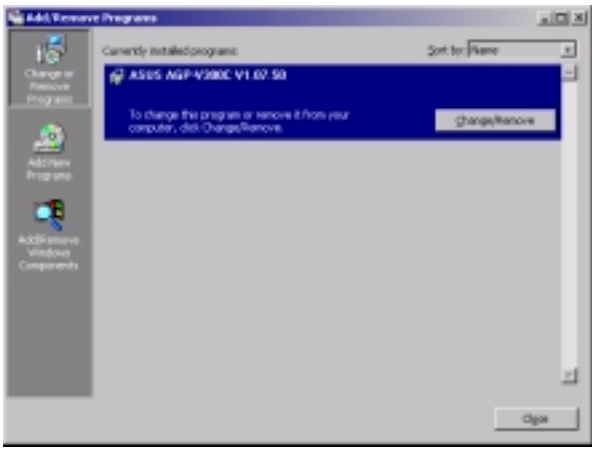


Windows 2000

Method1: Using the Autorun Screen

See **Windows 98 | Method 1: Using the Uninstall Utility** earlier in this section for the procedures.

Method 2: Using Control Panel



1. Click **Start**, and then point to **Settings**.
2. Click **Control Panel**.
3. Double-click the **Add/Remove Programs** icon.
4. Click the **Change/Remove Programs** icon.
5. Click **ASUS AGP-V300C Vx.xx.xx** from the list**.**
6. Click **Change/Remove**.
7. The system will prompt you to restart your computer. Click **Yes** to restart.

Windows NT 4.0

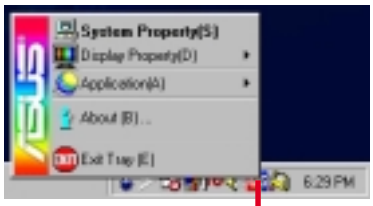
Method 1: Using Control Panel

1. Click **Start**, and then point to **Settings**.
2. Click **Control Panel**.
3. Double-click the **Add/Remove Programs** icon.
4. Click the **Install/Uninstall** tab.
5. Click **ASUS AGP-V300C Vx.xx.xx** from the list**.**
6. Click **Add/Remove**.
7. The system will prompt you to restart your computer. Click **Yes** to restart.

ASUS Control Panel

Windows 9x

After installation of the display drivers, you will find an ASUS icon on the taskbar's status area. Right-clicking this icon opens the ASUS Control Panel, showing a menu composed of shortcuts of the graphics board's enhanced and other functions.



ASUS Control Panel icon 

NOTE: Instead of clicking the ASUS Control Panel icon, you may right-click the Windows9x desktop, click **Properties**, and then click **Settings**. Under Windows98, click **Advanced** after clicking **Settings**. Click the appropriate tab to change your display settings.

System Property(S)

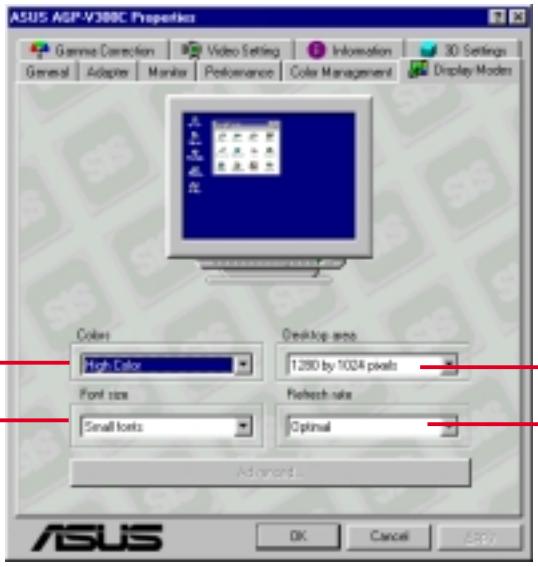
System Property(S) lets you gain access to the **System Properties – Device Manager** tab to check information, such as resource settings and hardware information (for example, your AGP-V300C display adapter).

Display Property(D)

Display Property(D) lets you gain access to the different utilities for your graphics card. To gain access to these utilties, right-click the ASUS Control Panel icon on the taskbar's status area, point to **Display Property(D)** (or press **D**), and then click the desired utility or function or press the utility's shortcut key (shown in parenthesis).

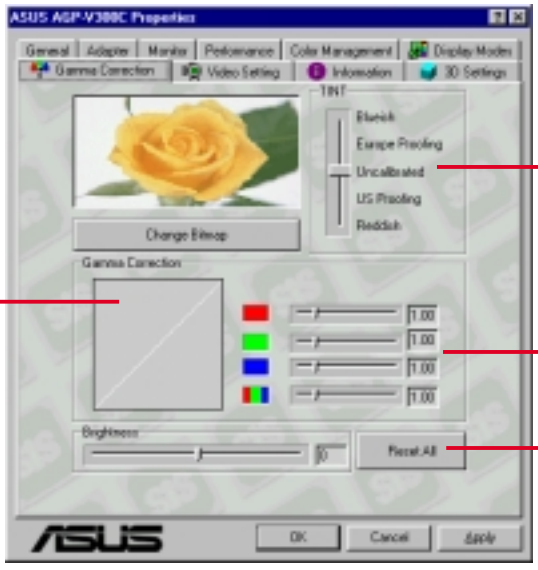
Display Setting(I)

Display Setting(I) lets you gain access to the **Display Modes** properties for setting up the *Colors*, *Desktop area*, *Font size*, and *Refresh rate*.



Gamma Correction(G)

Gamma Correction(G) lets you gain access to the **Gamma Correction** properties to adjust the quality of your display according to your preference. **Gamma Correction** is available only in 16-bit color (64K-color) and 24-bit color (true color) modes. In 16-color and 8-bit color (256-color) modes, gamma correction function is not supported.



Video Setting(V)

Video Setting(V) lets you gain access to the **Video Setting** properties for setting up *Overlay*, *Contrast*, and *Brightness* of your display according to your preference.

Sets the contrast and brightness of either one or two or both overlays of your video display. Changes to your settings can be previewed on the displayed picture.

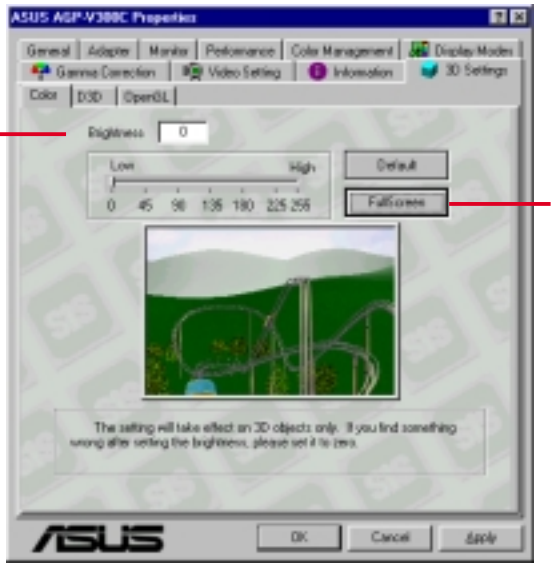
3D Setting(3)

3D Setting(3) lets you gain access to the **3D Settings** properties for general color adjustments as well as color adjustments for *D3D* and *OpenGL*.

Color

Color lets you make color adjustments, such as brightness, for all of the RGB colors.

Sets the brightness of your 3D displays. Changes to your settings can be previewed on the displayed 3D scene



Lets you preview fullscreen the changes. Press the **Esc** key to go back to this dialog box.

D3D

D3D lets you make basic and advanced performance settings for D3D games.

Lets you set the D3D performance of your 3D scenes. Setting the speed to a higher setting will result in a trade-off in display quality, and vice-versa

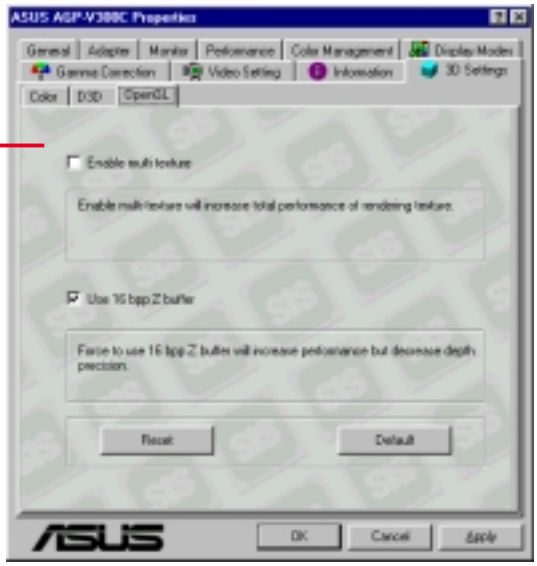
Lets you preview fullscreen the changes. Press the **Esc** key to go back to this dialog box.

Select preferred advanced settings. *See* description of each setting on the **D3D Advanced Settings** dialog box for more information.

OpenGL

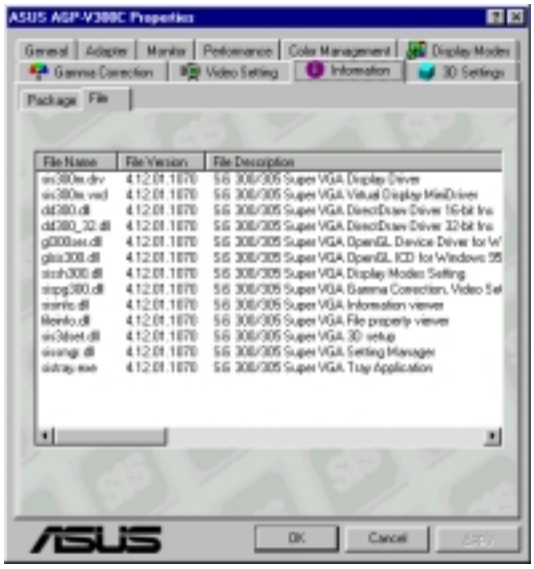
OpenGL lets you make texture and other performance settings for OpenGL applications.

See description of each setting on the dialog box for more information.



Information(F)

Information lists the relevant information about your card, such as the chip type, software and driver versions, memory size, video memory clock speed, and the drivers.

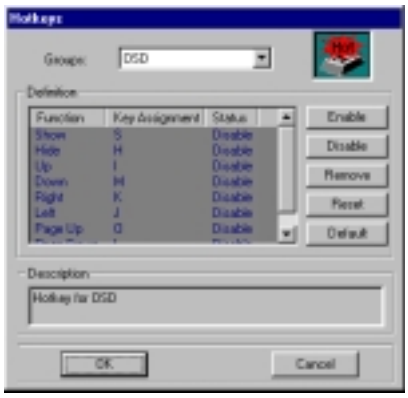


Application(A)

Application(A) lets you gain access to the different utilities to enable or disable the hot keys for OSD (On Screen Display), Stereo, and Zoom TV and to the **Add/Remove Programs Properties** dialog box. To gain access to these utilties, right-click the ASUS Control Panel icon on the taskbar's status area, point to **Application(A)** (or press **A**), and then click the desired utility or function or press the utility's shortcut key (shown in parenthesis).

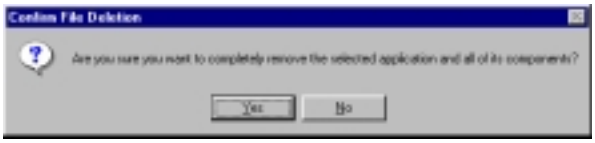
HotKeys(H)

HotKeys(H) lets you enable or disable the hot keys for OSD (On Screen Display), Stereo (stereoscopic mode), and Zoom TV.



Uninstalling Display Driver(U)

Uninstalling Display Driver(U) lets you remove the display drivers and utilities of your graphics card through your system's **Add/Remove Programs Properties** dialog box. When this function is selected, the ASUS V300C driver version installed on your system is automatically selected. When you are certain that you want to remove your display card's drivers and utilities, click **Yes**.



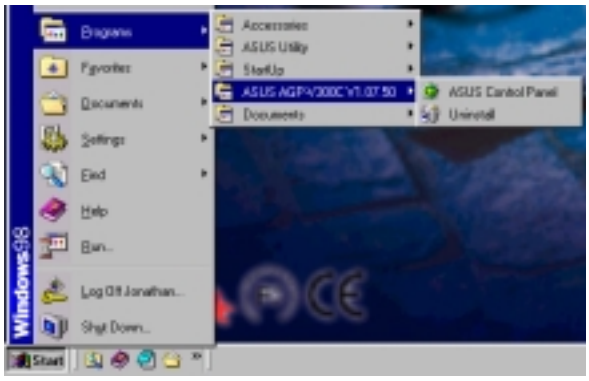
About(B)

About(B) lets you see information about the driver and utility version of your graphics card and contact information of ASUSTeK Computer Inc. To gain access, right-click the ASUS Control Panel icon on the taskbar's status area and then click **About(B)** (or press **B**).

Exit Tray(E)

Exit Tray(E) lets you close the ASUS Control Panel. To gain access to these utilties, right-click the ASUS Control Panel icon on the taskbar's status area, and then click **Exit Tray(E)** (or press **E**).

To open the ASUS Control Panel, click **Start**, point to **Programs**, click **ASUS AGP-V300C Vx.xx.xx**, and then **ASUS Control Panel**.



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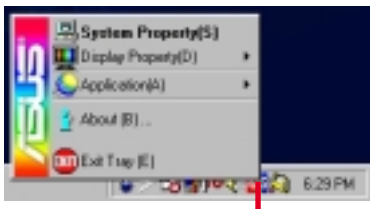
Windows 2000/Windows NT 4.0

After installation of the display drivers, you will find an ASUS icon on the taskbar's status area. Right-clicking this icon opens the ASUS Control Panel, showing a menu composed of shortcuts of the graphics board's enhanced and other functions.

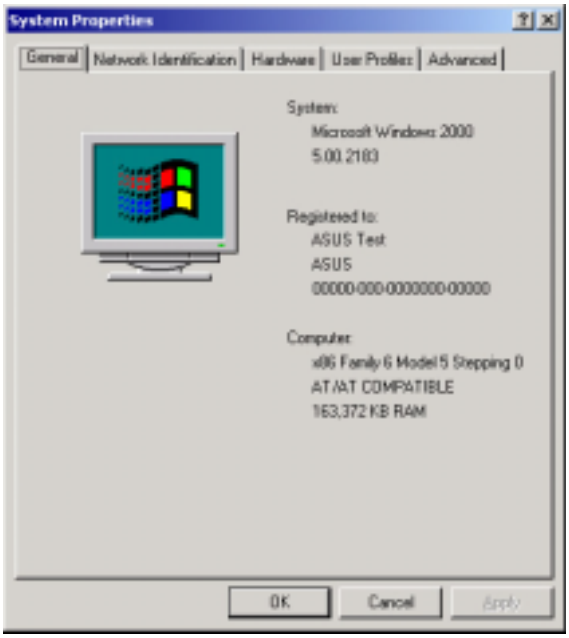


ASUS Control Panel icon

NOTE: Instead of clicking the ASUS Control Panel icon, you may right-click the Windows desktop, click **Properties**, and then click **Settings**. Under Windows 2000/NT 4.0, click **Advanced** after clicking **Settings**. Click the **Utility Manager** to change **Gamma Correction**, **Video Setting**, and **Product and File Information**.

System Property(S)

System Property(S) lets you gain access to the **System Properties – Device Manager** tab to check information, such as resource settings and hardware information (for example, your AGP-V300C display adapter).

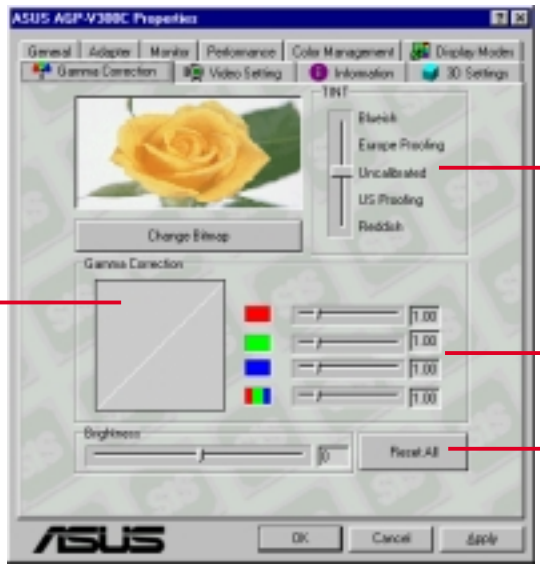


Display Property(D)

Display Property(D) lets you gain access to the different utilities for your graphics card. To gain access to these utilties, right-click the ASUS Control Panel icon on the taskbar's status area, point to **Display Property(D)** (or press **D**), and then click the desired utility or function or press the utility's shortcut key (shown in parenthesis).

Gamma Correction(G)

Gamma Correction(G) lets you gain access to the **Gamma Correction** properties to adjust the quality of your display according to your preference. **Gamma Correction** is available only in 16-bit color (64K-color) and 24-bit color (true color) modes. In 16-color and 8-bit color (256-color) modes, gamma correction function is not supported.



Sets the preferred tint of your display

Sets your monitor's color mapping

Allows adjustment of individual channel

Restores settings to the original program default

Video Setting(V)

Video Setting(V) lets you gain access to the **Video Setting** properties for setting up *Overlay*, *Contrast*, and *Brightness* of your display according to your preference.

Sets the contrast and brightness of either one or two or both overlays of your video display. Changes to your settings can be previewed on the displayed picture.

Information(F)

Information lists the relevant information about your card, such as the chip type, software and driver versions, memory size, video memory clock speed, and the drivers.

About(B)

About(B) lets you see information about the driver and utility version of your graphics card and contact information of ASUSTeK Computer Inc. To gain access, right-click the ASUS Control Panel icon on the taskbar's status area and then click **About(B)** (or press **B**).

Exit Tray(E)

Exit Tray(E) lets you close the ASUS Control Panel. To gain access to these utilties, right-click the ASUS Control Panel icon on the taskbar's status area, and then click **Exit Tray(E)** (or press **E**).

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V. Resolution Table

2D Video Modes

Resolution	Color Depth (bits/pixel)	Max Refresh Rate
640x480	8/16/32	200Hz
800x600	8/16/32	160Hz
1024x768	8/16/32	120Hz
1280x1024	8/16/32	85Hz
1600x1200	8/16	85Hz
1920x1440	8/16	60Hz

Maximum 3D Video Modes

(16/32MB)

Resolution	Color Depth (bits/pixel)	Single Buffer with below Z-Buffer				Double Buffer with below Z-Buffer			
		0-bit	8-bit	16-bit	24-bit	0-bit	8-bit	16-bit	24-bit
640x480	16	y	y	y	y	y	y	y	y
640x480	32	y	y	y	y	y	y	y	y
800x600	16	y	y	y	y	y	y	y	y*
800x600	32	y	y	y	y	y	y	y	y
1024x768	16	y	y	y	y	y	y	y	y
1024x768	32	y	y	y	y	y	y	y	y*
1280x1024	16	y	y	y	y	y	y	y	y
1280x1024	32	y	y	y	y	y	y	y*	y*
1600x1200	16	y	y	y	y	y	y	y	y*
1920x1440	32	y	y	y	y	y	y	y*	y*

*Only available on the 32MB model.

V. Resolution Table

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VI. Troubleshooting

Description	Recommended Action
After installation and restarting, Windows 95/98 informs me that the display setting is still incorrect.	• Make sure the "Assign IRQ to VGA" option is enabled in the BIOS. • Check if there is enough IRQ for VGA. • Uninstall the driver, restart, and reinstall the driver.
My monitor is not capable of high resolution or refresh rate.	• It depends on the display characteristics of your monitor. Consult your monitor documentation for the proper configuration.
DirectX or the other applications report no AGP memory available.	• Windows 95 is not OSR2.1 or later. • DirectX version is not 6.0 or later. • You have not installed appropriate drivers for the AGP chipset. (e.g. VGARTD.VXD for Intel 440LX). • Incorrect BIOS setting. BIOS must support at least 64MB for AGP aperture size.
Games or applications report "No 3D acceleration hardware found."	• 3D works only in 16- or 32-bit color depth. Switch your color depth display mode to 16-bit (high color) or 32-bit (true color). • Check necessary libraries, such as DirectX or OpenGL. • Try to switch to a lower resolution.
I cannot enable AGP memory or run I-Base test.	• You may be using a motherboard with an Aladdin IV AGPset. To get the best compatibility, the display card uses AGP Bus Master mode instead of AGP execute mode for motherboards using this AGPset.
My MPEG player displays bad quality video clips.	• You must install DirectX 6 or later so that your player can take advantage of the hardware acceleration mode (DirectDraw). • Try to switch to a lower resolution, color depth, or refresh rate. Switching to a lower mode allows your player to use hardware acceleration mode. • Switch dual view mode to VGA or TV mode.

VI. Troubleshooting

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Compact Professional Notebook PC

- **14.1” TFT Color Display**
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- **2X AGP 3D w/8MB VRAM**
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- **64MB to 192MB Memory**
- **Supports Two Hard Drives**

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ASUS® Barebone Servers

	Pentium® III Pentium® II Support	Maximum Memory (GB)	Ultra2 SCSI Onboard (Channels)	5.25" Fixed Storage Devices	Hot-Swap Trays
AP100	1 Slot1	1	1	3	0
AP200	2 Slot1	1	1	3	0
AP2000	2 Slot1	1	1	4	3 or 5*
AP3000	2 Xeon™	2	2	4	3 or 5*
New! **AP2300**	2 Socket370	4	2 Ultra3	4	3 or 5*
AP6000	2 Slot1	1	1	4	8**
AP8000	2 Xeon™	2	2	4	8**
New! **AP6300**	2 Socket370	4	2 Ultra3	4	8**

* Three 1.6-inch or five 1-inch SCA-2 SCSI hard drives

** Eight 1.6-inch or 1-inch SCSI hard drives

Mid-Range Servers
AP6000
AP8000
AP6300

Value Servers
AP2000
AP3000
AP2300

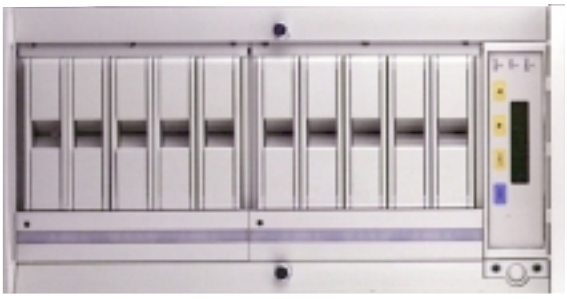
Group Servers
AP100
AP200

Rack Mountable

ASUS AR1000 RAID Sub-system

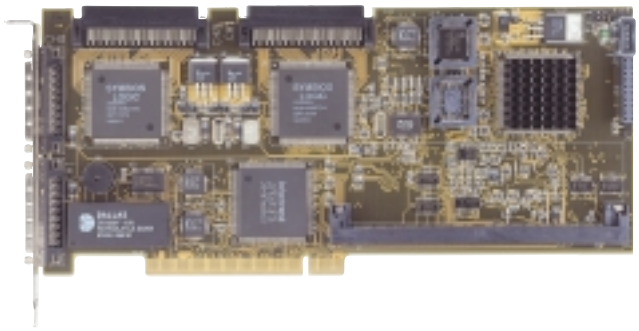
with DA3000 SCSI-to-SCSI RAID Controller

- Supports 5x86 RAID processor and two 72-pin SIMM sockets for up to 128MB cache memory
- Supports three Ultra2 SCSI channels; up to 80MB/sec data transfer rate
- Supports multiple Host/Drive channel capacity
- Redundant controller capacity
- Supports non-RAID, RAID levels 0, 1, 0+1, 3, 5
- On-line failure drive rebuilding
- Automatic rebuilding — supports local/global spare drive
- On-line expansion capacity
- Supports SAF-TE (SCSI Accessed Fault-Tolerant Enclosure) feature
- Provides LCD panel and RS-232 port to configure RAID
- Ten 1.0” or six 1.6” Ultra2 SCSI SCA-2 hot-swappable drive bays
- 19” rack mountable (height: 5U)
- LED for hard disk power and working status
- Two 8cm system fans and four 6cm drive fans
- Aluminum disk arrays for easy heat dissipation
- 350W redundant power supply



ASUS PCI-DA2200 Series SCSI RAID Card

- PCI-DA2200 series support 5x86-133 processor
- One 72-pin SIMM socket supports up to 128MB cache memory
- RAID levels 0, 0+1, 3, 5, non-RAID
- PCI-DA2200A supports Ultra2 SCSI interface and single channel
- PCI-DA2200B supports Ultra2 SCSI interface and dual channels
- Up to 8 logical drives and 8 partitions per logical drive; number of drives for each logical drive has no limitation
- Supports both global and local spare drive operation
- Automatic bad sector reassignment
- Background rebuilding
- PCI rev. 2.1 compliant



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