



## Installation of ATI Rage IIC Display Drivers for Windows 95/98/NT

### Before you begin

*Note: If your onboard VGA is based on ATI Rage Pro, from the QDI motherboard utility CD, manually direct the path to DevDrv\VGA\Rage Pro for installation.*

For all AGP features benefits, use Windows 95 OSR2.1 or the later version. To install Windows 95 OSR2.1, first install OSR2.0 then upgrade to OSR2.1 by installing USB supplement which is provided by Microsoft. You can contact the distributor of Windows 95 OSR2 for USB supplement. If your OS is Windows NT 4.0, Service Pack 3 should be installed before the actual installation of the AGP driver.

### 1. Installing Standard VGA Driver

It is recommended that you first install Windows 95/98/NT with this motherboard. After the installation of Windows 95/98/NT, the default standard VGA driver should have been installed.

If Windows 95(OSR2) has been installed previously on another system, when you first start up Windows 95 with this motherboard, the **Update Device Driver Wizard** window appears, click **next** (Do not click **Cancel**, or your system will hang!). Then click **finish** to install the standard VGA driver, direct the installation path to your \windows\system directory if Windows 95 CD is requested. Follow the prompt, it is not necessary to restart Windows 95, then proceed to step 2. Under Windows 98/NT, this incident will not occur.



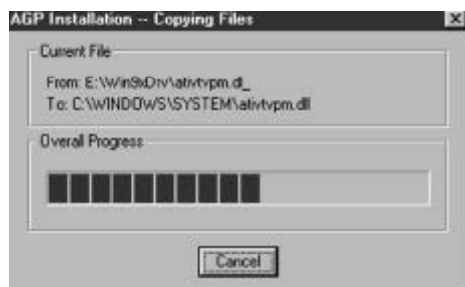


## 2. Installing the ATI Rage IIC display driver

Insert the QDI Motherboard Utility CD into the CD-ROM drive, run Auto.exe in the CD directory\DevDrv\VGA\Rage2C, a dialog box pops up as shown below:



Select '**Install Display Driver**', the ATI Rage IIC driver will be automatically installed. When completed, a message box pops up, prompting you to restart the computer. Press OK to restart the computer.





### 3. Installing DirectX

Under Windows 95, run auto.exe in the CD-ROM directory \DevDrv\VGA\Rage2C and select '**Install DirectX**' from the dialog box, then follow the prompts to install DirectX.



**Note:** If you try to install DirectX under Windows 98 or NT, a message box will popup, informing you that it is unnecessary to install them in these two operation systems. Please take note that the DirectX can only be auto-installed in Windows English, Simplified and Tradition Chinese versions. For the other language versions, please direct the path to **\DevDrv\VGA\Rage2C** and install the correspondent language version manually. You can read the Readme file in this path to receive the name of corresponding installation program.

### Configuring Windows 95 Driver

To receive optimum visual display and performance, configure your Windows 95 driver once it is installed.

Click the right mouse button while the mouse is pointing at an empty area of Windows 95 desktop and select **Properties** from **Display Properties** Window, you can adjust screen resolution, color depth, monitor setting, refresh rate etc.

Refer to the sections below for a complete description of what options are available for each configuration tab. After making your changes, follow the on-screen prompts to complete the configuration.

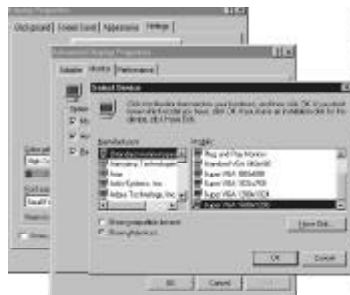




If you want to change the screen resolution or color depth, click on the **Settings** tab at the top of the screen. The below panel will now be displayed. Change the screen resolution using the “Desktop area” slider on the right side of the window. To change the color depth of the screen use the “Color palette” selector on the left side of the window.

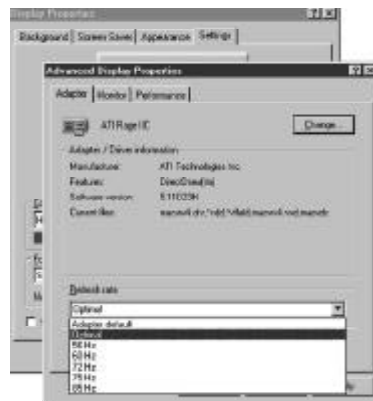


If you are unable to choose a resolution supported by your monitor, you may need to change your monitor settings by clicking the **Advanced Properties** button and clicking the **Monitor** tab. Click **Change** button for Monitor Type. Click the Manufacturer and Model that matches your monitor. If your monitor brand is not available, choose Standard monitor and VGA model.





If you want to change the refresh rate, click **Advanced Properties** button in the **Setting** panel, click the down arrow button on the Adapter active screen and click the number of refresh rate you hope to select, then click **OK** button. In general, the higher the refresh rate, the better the display quality. Be sure your monitor can support the refresh rate you choose!



## Configuring Windows NT 4.0 Driver

To configure your Windows NT 4.0 driver once it is installed, follow the procedures listed below.

1. Right click on the Windows NT desktop and select **Properties**.
2. From the Display Properties dialog box, you can change your driver and monitor configurations. Click on the **Settings** tab located at the top of the dialog box, adjust the settings using the drop-down boxes and slider bars.
3. Follow the on-screen prompts for completing configuration.

**Note:** The picture which appears on your screen might be different from the chart above, this is the result of the driver updating.



## Chapter 5

### Creative Audio Description

On-board audio system is based on the high performance Creative ViBRA™6XV CT2511 chip that integrates 3D stereo enhancement technology. It incorporates the best features of Sound Blaster™, Sound Blaster™Pro, Microsoft Windows Sound System and MPU-401 for all multimedia applications, entertainment, educational sound and business audio.

#### Features

##### Analog Audio

- Analog mixing of 7 audio sources: Digital Audio (Stereo), CD Audio (Stereo), Synthesised Music (Stereo), Line Level Audio (Stereo), Microphone Level Audio (Mono) and Mono Audio (Mono).
- Individual software programmable volume controls.

##### Digital Audio

- Variable sampling rates from 5KHz to 48KHz.
- Full-duplex record and playback.
- 8/16 bit stereo/mono digital audio playback and recording.
- FIFO's for digital audio playback and recording for optimum Windows operations.

##### Mixer

- 32-level volume control mixer.

##### Music Synthesizer and DAC

- Creative Music synthesizer.

##### Stereo Enhancement

- Built-in Creative Stereo Enhancement.
- Supports enhancement effect on all inputs to the mixer.
- CD audio, Line-in, Midi, Mic or Mono.

##### PnP Support

- Built-in PnP interface.
- Supports direct connection to ISA bus.

##### Joystick Port

- Built-in Analog Joystick quad timer.



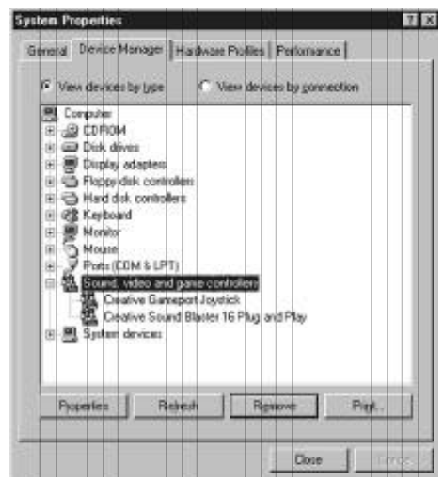
## Creative Software Installation

### I. Installation of Windows 95 driver

- Under Windows95, insert the QDI Motherboard Utility CD into the CD-ROM drive.
- Direct the path to D:\DevDrv\ Sound \ CT2511\ Win 95 and run setup.exe. The Creative software installation will guide you through the setup process.



- Restart the computer when prompted.
- After completing the installation, the sound , video and game controllers should be listed in Device Manager from System Properties as shown below.





## II . Installing Driver in DOS/ Windows 3.1X

Before installing the audio card's software from the CD-ROM, a CD-ROM drive must be installed and working properly in your system . If you have not yet installed a CD-ROM drive and associated drivers, refer to your CD-ROM drive's documentation for instructions. Use the diskette provided with the CD-ROM to install the drivers needed by your CD-ROM drive. To install the audio card's software from the CD-ROM:

1. Start your system.
2. Insert the QDI Motherboard Utility CD into your CD-ROM drive.
3. At the DOS prompt, change to the drive containing your CD-ROM. For example, type D:
4. Change to the directory D:\DevDrv\ Sound\ CT2511\ Win31.
5. Type **INSTALL** then press <Enter>.
6. Follow the instructions presented on the screen to complete the installation.

**Note: The installation will not work if installed from the Windows DOS prompt.**

## III. Installation of Windows NT 4.0 Driver

Installing Audio Drivers in Windows NT4.0

### 1. Installing PNPISA.INF

- In Windows NT4.0, insert the Windows NT 4.0 CD-ROM into the CD-ROM drive.
- Locate the file PNPISA.INF in the CD directory \DRVLIB\PNPISA\X86 .
- If this file can not be located, click Options on the View menu of Windows NT Explorer, select the "Show All Files" option and clear the "Hide Extensions For Known File Types" check box, then click the OK button.
- The file PNPISA.INF will be displayed. Right-click on this file and select Install.
- Restart your computer when prompted.

### 2. Installing Creative Audio Drivers

- When the system restarts, the New Hardware Found message boxes for the various devices will appear.
- If you have previously installed Windows NT 4.0 Service Pack 3, the system might prompt for the Service Pack 3 CD to install sound driver, click the cancel button.
- However if Windows NT 4.0 service pack 3 is not installed, When prompted for the driver, click the Cancel button.
- Insert the QDI Motherboard Utility CD into the CD-ROM drive.
- Run UPDPNPNT.EXE in the directory \DevDrv\Sound\CT2511\Winnt40 .
- Click the OK button If the Sound Blaster 16 Configuration box appears with no conflicts.
- If you are prompted for the Windows NT CD-ROM to install the Joystick port enabler, insert the Windows NT4.0 CD-ROM into the drive, direct the path to \DRVLIB\AUDIO\SBPNP\i386 and click the OK button.
- Restart the computer when prompted.

Please refer to the readme file in the directory

D:\ DevDrv \ Sound\ CT2511\ Winnt 40 for detailed information on installing Windows NT 4.0 driver.





#### IV. Enabling/ Disabling the Creative 3D Stereo Enhancement Effect

The Creative 3D Stereo Enhancement effect allows you to eliminate speaker crosstalk when two speakers are placed close together. The results are sounds with increased depth and breadth, thereby giving you enhanced mono and stereo output from the speakers.

The Creative 3D Stereo Enhancement effect can be enabled or disabled in DOS and Windows95.

##### In DOS

To enable or disable the effect in DOS:

1. At the DOS prompt, change to the directory containing your audio card's software.
2. Type CT3DSE ON to enable the effect or CT3DSE OFF to disable the effect.

##### In Windows 95

To enable or disable the effect in Windows 95:

1. Click Start button in the task bar.
2. Select Settings then Control Panel. The Control Panel group box appears.
3. Double-click the System icon. The System Properties dialog box appears.
4. Click the Device Manager tab. A list of devices found on your system appears.
5. Double-click Sound, video and game controllers. The audio card's name appears.
6. Select your audio card and choose Properties. The audio card's properties dialog box appears.
7. Click the Settings tab. The dialog box as shown below appears.



8. Click on the Enable/ Disable check box to enable/ disable the Creative 3D Stereo Enhancement effect.
9. Choose OK.



## V. Software Wavetable Synthesis

### Function

Wavetable Synthesizer uses digital samples of actual musical instruments to create the waveforms produced by those instruments. Software wavetable synthesis uses the power of the CPU to fetch and manipulate this data. While this does require the use of some processing power, it means that no additional hardware is required to obtain higher-quality sound other than what would normally be expected from a PC.

### Installation Instructions (in Windows95)

- Under Windows 95, insert the QDI Motherboard Utility CD into the CD-ROM drive.
- Direct the path to D:\DevDrv\Sound\CT2511\Wavesynt and run setup.exe. The Creative software installation will guide you through the setup process.
- Restart Windows when prompted.

### Select the WaveSynth MIDI as your default MIDI device

- Double click the Multimedia icon in Control Panel.
- Select the MIDI tab.
- In the single instrument window, highlight “ WaveSynth MIDI ” from the device list.



- Click < Apply >, then press < OK>.