AMD[®] Graphics Accelerator

User's Manual

Rev. 104

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Notice

Please do not remove any labels on this graphics card. Doing so may void the warranty of this card.

Due to rapid change in technology, some of the specifications might be out of date before publication of this this manual. The author assumes no responsibility for any errors or omissions that may appear in this document nor does the author make a commitment to update the information contained herein.

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1. Introduction

1.1. Minimum System Requirements

Hardware

- Intel[®]Pentium[®]4 / CoreTM 2 or AMD AthlonTM / PhenomTM
- 1 GB or more of system memory for best performance
- Optical drive for software installation (CD-ROM or DVD-ROM drive)

Operating System

- Windows [®]8
- Windows[®]7
- Windows® Vista
- Windows[®]XP with Service Pack 2 (SP2)
- Windows[®]XP Professional x64 Edition

2.2. Hardware Installation

Step 1.

Locate the PCI Express x16 slot. If necessary, remove the metal cover from this slot; then align your graphics card with the PCI Express x16 slot, and press it in firmly until the card is fully seated.



Make sure that the gold edge connector of the graphics card is securely inserted.

Step 2.

Replace the screw to fasten the card in place, and replace the computer cover.







After installation, remember to connect the power cable to your graphics card, or the system will not boot. Do not touch the card when it's operating to prevent system instability.

Step 3.

Plug the display cable into your card; then turn on the computer and monitor. To connect a flat panel display to your graphics card, use the DVI-I connector. To connect an HDMI monitor to your graphics card, use the HDMI connector. To connect a DisplayPort monitor to your graphics card, use the DisplayPort connector.









To Flat Panel Display

To Flat Panel Display To HDMI Monitor

To Mini HDMI Monitor



To D-sub Monitor





To Mini DisplayPort Monitor

To Mini DisplayPort Monitor

You are now ready to proceed with the installation of the graphics card driver. Please refer to next chapter for detailed instructions.

2.1.1. How to enable the AMD CrossFireX[™] technology?

CrossFireX[™] Configuration

If you are planning on using this graphics card as part of a CrossFireX system, the following is required:

- A CrossFireX certified motherboard with two PCI Express x16 slots and correct chipset driver
- One or two CrossFire bridge interconnect cables

Step 1:

Install two CrossFireX graphics cards of the same chipset on a CrossFireX-supported motherboard and connect the graphics cards via two CrossFire bridge interconnect cables (Figure 1). Then users can enable the CrossFireX technology through the graphics card driver.



Figure 1

Step 2:

After installing graphics card driver in operating system, when an AMD CrossFireX configuration is detected for the first time by the AMD Catalyst display driver, AMD CrossFireX support is automatically enabled, and the best possible GPU combination is selected based on the hardware configuration.

If AMD CrossFireX is not enabled, access the AMD Catalyst Control Center (please refer to Page 14). From the AMD Catalyst Control Center, enter the CrossFire menu and assure to select the Enable CrossFireX[™] check box (Figure 2).







AMD Graphics Accelerator support HDMI output which can handle both audio and video signals. However, audio output from the onboard audio controller or the external sound card will be disabled when HDMI output is activated.

If no need for HDMI output function, set the onboard audio controller or the external sound card to be the default Sound Playback device to obtain audio output from your system.



Expansion cards contain very delicate Integrated Circuit (IC) chips. To protect them against damage from static electricity, you should follow some precautions whenever you work on your computer.

- 1. Turn off your computer and unplug power supply.
- 2. 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.
- 3. Place components on a grounded antistatic pad or on the bag that came with the components whenever the components are separated from the system.

The card contains sensitive electric components, which can be easily damaged by static electricity, so the card should be left in its original packing until it is installed. Unpacking and installation should be done on a grounded anti-static mat. The operator should be wearing an anti-static wristband, grounded at the same point as the anti-static mat.

Inspect the card carton for obvious damage. Shipping and handling may cause damage to your card. Be sure there are no shipping and handling damages on the card before proceeding.

ON NOT APPLY POWER TO YOUR SYSTEM IF THE GRAPHICS CARD IS DAMAGED.

In order to ensure that your graphics card can work correctly, please use official GIGABYTE BIOS only. Using non-official GIGABYTE BIOS might cause problem(s) on the graphics card.

3. Software Installation

Notice the following guidelines before installing the drivers:

- 1. First make sure your system has installed DirectX 9 or later version.
- 2. Make sure your system has installed the appropriate motherboard drivers (for the motherboard drivers, please contact the motherboard manufacturer.)

Notice : The photos in this manual are for reference only and may not match what you exactly see on your screen

3.1. Driver and Utility Installation

3.1.1. Driver Installation

After installing the operating system, insert the driver disk into your optical drive. The driver Autorun screen is automatically displayed which looks like that shown in the screen shot below. (If the driver Autorun screen does not appear automatically, go to My Computer, double-click the optical drive and execute the setup.exe program.)

Step 1:

Click the Install Display Driver item.



Ext-Coolyst& Instal Manager - Version (3000)76 Select Installation Operation What do you want to do? Instal Allow uses to initial ATT software components Install Resolve ATT outhware components Resolve ATT outhware components

Step 3: Click the **Install** button.

Step 2:

Select the displayed language and then click Next.



For software MPEG support in Windows XP, you must install DirectX first. Users who run Windows XP with Service Pack 2 or above do not need to install DirectX separately.



Setp 4:

Click the **Express** or **Custom** icon and then click **Next**.



The system is installing the components.



Step 5: Click the **Accept** button.



Click the **Finish** button to restart the computer. Then the driver installation is completed.

3.1.2. GIGABYTE OC Guru II



Step 1: Click the **GIGABYTE OC Guru II** item.



Choose the language for the installation and click the **OK** button.



Step 3:

Choose the Typical and click the Next button

Setup Status	
GIBABYTE DC_GUPU II is car	figuing you non software installation.
Publishing product information	
idhidi	Lancel

The system is installing the components.



Step 4:

Click the Finish button. Then the installation of the GIGABYTE OC Guru II is completed.

OC GURU II: Profiles

Users have 5 Profiles, 1/2/3/4/5, to set different profiles. By clicking 1/2/3/4/5, users can switch around these profiles



This page indicates where users can set up MONITORING < GPU CLOCK < MEMORY CLOCK < FAN < GPU VOLTAGE < MEMORY VOLTAGE < OSD < ONLINE SUPPORT.



Function: When it's locked, GPU CLOCK / MEMORY CLOCK / GPU VOLTAGE / MEMORY VOLTAGE can not be changed.



Function: When it's unlocked, GPU CLOCK / MEMORY CLOCK / GPU VOLTAGE / MEMORY VOLTAGE can be adjusted.



Function: Apply to what has just been setup.



DEFAULT Function: Restore the default setup.

MONITORING:



Show real time GPU Clock/MEMORY Clock



Click MORE to MONITORING PANEL

MONITORING PANEL:





Monitoring panel settings:



Function: Show the chosen items on the MONITORING PANEL.



Function: Set up a folder to save the recorded files.



Function: Return to MONITORING Page.



Function: Save the settings.



Function: Restore the default setup.

GPU CLOCK:



Show GPU OFFSET, users can enter numbers directly to change GPU OFFSET.



MEMORY CLOCK:

MEMORY CLOCK is the combination of DEFAULT CLOCK and OFFSET.



When changing MEMORY CLOCK, Presents PLUS and represents MINUS.

+0 MHz

Show MEMORY OFFSET, users can enter numbers directly to change MEMORY OFFSET.

FAN

Show real time fan speed and fan mode



SPEED: show real time fan speed, it will show 0% if using a passive graphics card. MODE: show Auto mode or Manual mode, users can set up in SETTINGS



SETTINGS:



AUTO mode, fans will be controlled automatically.

🛃 MANUAL

MANUAL mode, users can adjust fan behavior by adjusting the blue point on the fan graph.



Return to PROFILES page.

GPU VOLTAGE		
GPU VOLTAGE 1.2 v (+0.01 v)	Show and set up GPU VOLTAG	Æ
When changing GPU VOLTAGE,	represents PLUS and	represents MINUS.
+0.000 V Users can	enter numbers directly to change	GPU VOLTAGE.
MEMORY VOLTAGE		
MEMORY VOLTAGE 1.2 v + 0.01 V	Show and set up MEMORY VOI	LTAGE
When changing MEMORY VOLTAG	E, represents PLUS and	represents MINUS.
LOSD HOT KEY Ctrl + F1	Show OSD HOT KEY and OSD	location
MORE	Click SETTINGS to OSD setting	jS

OSD settings:

GIGABYTE DC GURU	n				? - ×
PROFILES		<u> </u>	APPLY	CANCEL	DEFAULT
ĸ		and the second			
ON-SCREEN DIS	PLAY LOCA	ATION			
OSD HOT KEY		2			
Ctrl + F1					
SCREEN SHOT	HOT KEY				
Cirl + F2					
	NGS	GIGAEN/TEVGI	GABYTE O	сона Мел	T 50
CONTRAST	171		-		FT 50
GAMMA	-	_			1.00
Function ON-SCREEN DISPL			SETTIN	NGS Pa	ge.
		2			

Function: Set up where OSD will show during games through clicking on one of the 9 squares.

OSD HOT KEY	
Ctrl + F1	

Function: Setup a shortcut key for SOFTWARE On-Screen Display (OSD).



Function: Setup shortcut keys and a folder to save screenshots.

SC	REEN SETTING	S			
濛	BRIGHTNESS				
0	CONTRAST				
1	GAMMA				
The	e settings can	be adjusted by clic	king on	or by d	ragging the scrollbar.

ONLINE SUPPORT



Click to enter ONLINE SUPPORT

ONLINE SUPPORT:



1.Update BIOS:



The BIOS version of your VGA is shown in the page. By clicking the item while you are connected to the internet, the software detects if there is an updated BIOS version available. You can download the updated BIOS version and it installs automatically.

2.Update Driver



The DRIVER version of your VGA is shown in the page.

By clicking the item while you are connected to the internet, the software detects if there is an updated DRIVER version available. You can download the updated DRIVER version and it installs automatically.

3.Update OC GURU



4.PRODUCT INFO



The OC GURU version of your VGA is shown in the page.

By clicking the item while you are connected to the internet, the software detects if there is an updated OC GURU version available. You can download the updated OC GURU version and it installs automatically.

When you are connected to the internet, clicking the item will link to the official GIGABYTE product page.

5.CONTECT US



When you are connected to the internet, clicking the item will link to the official GIGABYTE CONTECT US page.

6.FAQ



When you are connected to the internet, clicking the item will link to the official GIGABYTE product FAQ page.

3.2. Taskbar Icon

After installation of the display driver, you will find an ATI **an** icon in the notification area. Right-click the icon to enter the **ATI Catalyst Control Center**. The **ATI Catalyst Control Center** is used to configure all your graphics card settings.



Right-click the ATI icon to enter the ATI Catalyst Control Center.



Or you can right-click on the desktop and select Catalyst(TM) Control Center.

Configuring Audio Output

Configure the default audio output device based upon your needs.

Step 1:

Go to Start > Control Panel > Hardware and Sound > Manage audio devices.





Figure 1





Step 2:

In the Manage audio devices dialog box, click the Playback tab.



Using the picture to the left as the example, to set HDMI audio to be the default Sound Playback device, select **Digital Output Device (HDMI)**. Otherwise, select **Digital Output Device (SPDIF)**, which is the onboard audio controller.

3.3. Display Properties Pages

Display Settings (Resolutions and Color Quality for Windows)

To access **Display Settings** page, right-click on desktop and select **Personalize**, then the Personalization windows will show up. Select **Display Settings** to adjust the screen resolution and color quality settings.



AMD Catalyst[®]Control Center Basic View :

The Basic View is the default view when AMD Catalyst Control Center is launched for the first time. This interface provides access to the basic settings and advanced features of your AMD graphics products. You can switch between Basic View and Advanced View at any time.



To access more settings in Basic View, click **Basic**, and then click **Next**.

Easy Setup Wizards:

Choose a wizard from the central list and click Go for step-by-step assistance.

Avivo Video Converter

This wizard assists you to convert videos from one file format to another.



The file to	Dyten					Fr.Se
Input File	G GIGABYT	E + Videos	2	• + ₂ 5	ranch	P
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Duput Fe	Facetha Links	Name		Təgs	Size	19
	Folders ^					
	File name	20060429_	0003		All files (*.7) Open	• Cancel

Step 1:

Select Avivo Video Converter, then click Go.

put File: C/Users/GIGABYTE	\/idecs/20060429_0003	neg		
F Show the file name	a only	Qear	Select S	iource
Popety Bia Name	Value	GABYTE Wideon 200	A416 858	
Etrate France Rate	0.27 mbps 29.97 frames			
Aspect Ratio	4:3 320×240	3243 		
Date File State	8/1/2008 3: 22.727MB	19.55 PM		
Durwtion	2.72.72			
out Folder: IC-Useen/GIGABY			F	Browee

Step 2: Select the video file to be converted.

Step 3:

In the Output Folder area, select the destination folder where the new file will be located. Click Next.

No Associated Player			-
Output Wdeo Format:	Use this Standar	format to produce generic MPEG- d MPEG-1 and MPEG-2 formate act	l video files. Herve very
WPEG-1	 high compute 	npression rates and are portable to era.	rost
MPEG-4 (DivX Compatible) Portable Media Center		10	
MPEG-1	-		
Sony portable gaining device MPEG-2			High
DVD De			
Super Video CD	*	Culput Re	
	27WB mbpa	14.753MB 1.42 mbps	
Encoding Standard MPE		MPEG-1	
Output File: 20060429_00031			

Step 4:

In the **Output Video Format** list, select a file format for the new file. If you wish to change the name of the new file, enter the new name in the **Output File** area. Finally, click **Next** to start file conversion.

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Seded Williams (1997)	Manu Millians (2011	150	6
Property	Value		
File Size Bitrate Encoding Standard	13.931MB 1.15 mbps Video CD		
	Quen Folder	Bay file	

The video file has been successfully converted.

What Weald You Like to Do?	_
What Would You Like to Do? Select an Eary Setup Witard or Guick Settings, then click Go.	(F
Easy Setup Witzards Quick Settings Information Center	
For step-by-step assistance, choose a Wizard, then click Go.	
Avivo Veleo Convetar Enter vy August configuration Hydra Velon Configuration Settings	
The Witcard will take you through all the steps to set up your deplay configuration to your own preferences. Up to 5 steps nay be involved.	
	<u></u>

Setup my display configuration

This wizard allows you to configure display setting for desktop viewing.

What Would You Like to Do? Select an Easy Setup Wised or Quick Settings, then click Go.		
Easy Setup Witzeldo Quick Settings Information Center		
For step-by-step assistance, choose a Wizard, then click	t Gin.	
Avivo Veleo Conveter Setup my deplay configuration		
Hydro Valen Carligunation Settings		
The Wased will take you through the steps to set up the Hydr your own preference. Up to 5 steps could be involved.	aVitation Configuration based on	
() This Woord will take you through the steps to set up the Hydr	el/lation Configuration based on	60.5
() This Woord will take you through the steps to set up the Hydr	eVien Configuration based on	<u>6</u> 2>

HydraVision Configuration Settings

This wizard will take you to set up the HydraVision Configuration based on your own preference.

Quick Settings:

The Quick Settings page provides access to three main settings.

What Would You Like to Do? Select an Easy Setup Witterd or Go	ack Settings, then click Go.	6
Easy Setup Wizards Quick Settings	Information Center	
Change a setting for	Select a setting and click Go	
m≱ 10 Canahy ∰ Veleo Playback ∰ Dupley Satup	10 Galaky and Parlowance Scherge Image: State you point 1D settings in one easy state. To foreign antitings for the ultimate garing expension, club the Ad Below.	e ofter 30 vanced button
	_	Q0 >

3D Quality

3D Performance and Quality Settings allows your 3D games and applications to get faster performance and better quality with a more balanced setting.

Video Playback

Use this option to optimize video playback in different room environment or to select how video playback appears on the second display.

Display Setup

This option allows you to configure your desktop, including changing desktop resolution and desktop mode, setting up extended desktop (requires more than one display), and rotating desktop image to match new display orientation.

Information Center:

The Information Center page in Basic and Advanced View provides hardware and software information about the installed graphics card.

Graphica Software Guick Settings Info Graphica Software Graphica Hardware	mator Genter]
Jean Drear Packaging Vention Provider 20 Drear Vention 20 Drear He Path DirectOV Vention OpenGV Vention Catalyst." Control Center Vention	Weine 1.056-050011a (033005)E ATI Technologius Inc. 2.01.61.934 ALI C. S. M. Control
(*

Graphics Software

Provides software information including driver version, CATALYST version, Direct 3D version and so on.

Graphics Hardware

Provides hardware information including graphics chipset, BIOS version, memory size, core clock and so on.

AMD Catalyst Control Center Advanced View

The Advanced page allows you to configure all of the many available settings of your ATI graphics card.

View Properties:

The CATALYST Control Center dashboard supports three types of views.



Hotkeys Properties:

The Hotkeys Manager allows you to create shortcut key combinations to quickly perform tasks such as changing a graphics setting or opening an application. A Hotkey is a combination of a modifier key or keys, such as Ctrl, Alt, or Shift, and any letter from the alphabet.



Profiles Properties:

You can use profiles to create customized environments for your desktop, video, and 3D applications. Define and save your own personal video settings that can be quickly activated manually, through a Hotkey, or by file association.



Note:

A profile applies to a specific graphics card. If there is more than one graphics card installed in your computer, you need to select the appropriate card before creating, loading, or activating a Profile.

Preferences Properties:

The Preferences page helps to restore defaults, change skins, and update the Catalyst Control Center. The Catalyst Control Center Preferences page contains the following options:



Help Properties:

The Catalyst Control Center Help feature allows you to access the comprehensive online help, register your product, or generate a problem report should you require technical support.

The Catalyst Control Center Help feature offers the following options:



- Help for this Page
- Help Contents ...
- Go to AMD.com
- About Catalyst Control Center ...

Displays Manager:

Displays Manager is the central location for configuring your display devices and arranging your desktop. Use Displays Manager to change your display setup and arrange your desktop in a multi-monitor environment.



Note:

The stretch vertically and horizontally options are not supported on systems running Windows Vista.

Display Options:

The Display Options aspect gives you additional control to optimize performance of OpenGL and Direct 3D applications. Choose one of the **Display Detection Option** to prevent screen flicker when detecting a display.

Welcome El 🙀 Information Center	Display Options
E 👹 Diplet Manaper	Exaphice Adapter :
+ Monitor Properties D	1 AMD Radeon HD 6600 relev [L365]
at the solution of the soluti	Display Columbia Diplan Select have Catalyst ⁴⁴⁴ Cantod Canter will detect display devices: District of remove Catalyst ⁴⁴⁴ Cantod Canter is operand ⁴⁴⁵ Use nearest detection only II mail click the Dietect Displays button) ³⁴⁵ District Participants and the display devices operating of a whitely rate of EDHs. Trinstead of the declarge relation is To service this, unlest the decined referely is the overside.
	Display Monogenerel Options For displays of limited resolution capabilities: Crity allow porning on limited resolution displays

Note:

On systems Windows XP, this page will show up the **3D Refresh Rate Override** item. Use **3D Refresh Rate Override** to set a refresh rate of your choice when a full-screen application or game has a default refresh rate that is lower than optimal.

Monitor Properties 1:



Attributes

Monitor Attributes provides information about the attached monitor. You can also enable Extended Display Identification Data (EDID). EDID uses the information provided by the attached monitor to determine the limits for the resolution and refresh rate.



Adjustments

Use Monitor Adjustments to resize and reposition the computer desktop on your monitor's display screen. You can also adjust the horizontal and vertical sync or enable composite sync.



Avivo[™] Colo

Use AvivoTM Color for AMD graphics cards that support per-display color settings. Independently set the hue, saturation, and temperature for each attached and enabled display.

3D:





Standard Settings

The Standard Settings page provides access to a universal slider control where you can simultaneously adjust all of the standard 3D settings for any type of 3D application. The slider enables you to adjust for overall system performance, overall 3D image quality, or a balance between the two.

This page is useful when you are not aware of which type of 3D settings your application uses, or when you want to use an overall adjustment control that rapidly configures your application.

Anti-Aliasing

Anti-Aliasing (AA) is a rendering technique designed to remove jagged edges, shimmering, and pixelation problems that are common in rendered 3D images. Rather than determining the color to display for each pixel by sampling a single location at the pixel's center, anti-aliasing samples multiple locations within each pixel and blends the results together to produce the final color.

Anti-Aliasing can be set to favor either system processing performance or image quality, or the application can decide:

• Setting for performance is best used when the 3D image is animated and smooth motion is the most important consideration.

• Setting for quality is best used when highly detailed and realistic 3D objects is the most important consideration.

• If you are unsure of how to configure anti-aliasing, use the Use application settings option. Your display will automatically adjust to the application's requirements.

Adaptive Anti-Aliasing

Adaptive anti-aliasing is a technique that applies a combination of multi-sampling (MSAA) and supersampling (SSAA) on 3D objects to improve edge smoothness and fine detail. This feature renders 3D objects containing transparencies more realistic, providing exceptional levels of image quality while maintaining performance.

AMD Series Graphics Accelerator





Anisotropic Filtering

Anisotropic Filtering is a technique that preserves detail on surfaces that have three-dimensional perspective and fade away into the background. It works best when used in conjunction with Mipmapping.

Anisotropic Filtering can be set to favor either an increase in system processing performance or improved image quality:

• Setting for performance is best used with applications that display objects with smooth, simple surfaces, like those seen in CAD applications.

Setting for quality is best used with applications that display highly detailed scenes, backgrounds, and textured objects, like those seen in 3D games.
If you are unsure how to configure anisotropic filtering, use the Use application settings option. Your display will automatically adjust to the application's requirements.

All Settings

The All Settings page combines all of the principal 3D features onto a single page, without any preview window, allowing for quick access and adjustment. This page is useful when it is not necessary to preview the adjusted settings because the effect is already known or understood.

Color:

Adjust the overall richness of color by using the Gamma control. To adjust the overall brightness use the Brightness control, and the overall contrast use the Contrast control.

Welcome H 🛃 Information Center		Color	
E Diplet Manager Dipley Options	Graphice Adapter :		
🗉 📑 Monitor Properties D	1 AMD Radeon HD 5500 s	alei (1365)	3
# 45 30 # 1000 # 80 Video	Color Adjustments Color correction curve:	Hencel and All color con	ndi
Video Converter		Set color correction for:	1.
VPU Recover ATI Bysterve ¹⁴		Desktop	
		AllChannels	-
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RADEON			100 -
PREMIUM		a mai	···· ·· ·· ··



Presets

To quickly adjust your video settings choose one of the video presets.

Note:

These settings will only affect applications with video overlay support.



Basic Color

Use the Avivo Color: Basic option to manually set Gamma, Brightness, Contrast, Saturation, and Tint for video playback.

Note:

Certain video formats do not support these adjustments. These settings will only affect applications with video overlay support.



Advanced Color

Use the Advanced Color page to fine tune the color of standard definition video (720x480) to make the color more or less vibrant and to remove excess red from skin tones. You can preview your changes before applying them.

Note:

This page is only for Windows Vista.



Basic Quality

You can control the deinterlacing settings by checking the **Use automatic deinterlacing** item. The bar determines how the two interlaced video fields are converted into a non-interlaced form. Note:

These settings will only affect applications with video overlay support.



Theater Mode

Use Theater Mode to change the way you view streaming video.

Note:

These settings will only affect applications with video overlay support. Extended Desktop Mode is not supported on systems running Windows Vista.
This item will be available when you connect two monitors.



All Settings

The All Settings page combines all of the principal Video features onto a single page, without any preview window, allowing quick access and adjustment. This page is useful when it is not necessary to preview the adjusted settings because the effect is already known or understood.

Note:

These settings will only affect applications with video overlay support.

AMD Overdrive:

Use Overdrive to maximize your viewing experience by dynamically and safely overclocking the graphics processor and memory. Use the Automated clock configuration utility to obtain the ATI recommended speeds for the graphics processor clock and video memory clock. Alternatively, manually set these speeds to meet your specific requirements. Finally, Overdrive can be configured to run when the computer is booted or only when



Note:

running 3D applications.

If your computer cannot restart after setting a higher clock speed, press and hold the <Shift> key during system start-up until you hear three beeps. Once your computer has full booted, disable Preserve ATI Overdrive settings at logon.

CrossFireX[™]:

CrossFireX delivers exceptional performance on a single display by combining the processing power of two or more Graphics Processing Units (GPUs).



Configure

When an ATI CrossFireX configuration is detected for the first time by the ATI Catalyst display driver, ATI CrossFireX support is automatically enabled. If ATI CrossFireX is not enabled, select the **Enable CrossFireX**[™] check box.

Diagnostics

Use this page to determine whether your ATI CrossFireX configurations are configured properly and functioning optimally. You can also use the page to view performance issues and suggested solutions specific to a particular configuration. Note:

This page is only for ATI CrossFireX configuration.

AMD Eyefinity setting:



Select Display (3 x 1)



Arrange the order of your displays then the setting is completed

Select Create Eyefinity Display Group

4. Troubleshooting Tips

The following troubleshooting tips may help if you experience problems. Contact your dealer or GIGABYTE for more advanced troubleshooting information.

- Check that the card is seated properly in the PCI Express x16 slot.
- Ensure that the display cable is securely fastened to the card's display connector.
- Make sure that the monitor and computer are plugged in and receiving power.
- If necessary, disable any built-in graphics capabilities on your motherboard. For more information, consult your computer's manual or manufacturer.
 (NOTE: Some manufacturers do not allow the built-in graphics to be disabled or to become the secondary display.)
- Make sure you selected the appropriate display device and graphics card when you install the graphics driver.
- Restart your computer.

Press <F8> on your keyboard after system starts up. When the Windows Advanced Options Menu appears, select Safe Mode and press <Enter>.

After getting into Safe Mode, in Device Manager check whether the driver for the graphics card is correct.

For more assistance, use the Troubleshooting Guide located in the Windows Help or contact your computer manufacturer.



If necessary, adjust your monitor's setting using monitor's adjust panel to make the screen look focused, crisp, and sharp. (Please refer to the monitor's manual.)

5.1. Regulatory Statements

Regulatory Notices

This document must not be copied without our written permission, and the contents there of must not be imparted to a third party nor be used for any unauthorized purpose. Contravention will be prosecuted. We believe that the information contained herein was accurate in all respects at the time of printing. GIGABYTE cannot, however, assume any responsibility for errors or omissions in this text. Also note that the information in this document is subject to change without notice and should not be construed as a commitment by GIGABYTE.

Our Commitment to Preserving the Environment

In addition to high-efficiency performance, all GIGABYTE motherboards fulfill European Union regulations for RoHS (Restriction of Certain Hazardous Substances in Electrical and Electronic Equipment) and WEEE (Waste Electrical and Electronic Equipment) environmental directives, as well as most major worldwide safety requirements. To prevent releases of harmful substances into the environment and to maximize the use of our natural resources, GIGABYTE provides the following information on how you can responsibly recycle or reuse most of the materials in your "end of life" product.

Restriction of Hazardous Substances (RoHS) Directive Statement

GIGABYTE products have not intended to add and safe from hazardous substances (Cd, Pb, Hg, Cr+6, PBDE and PBB). The parts and components have been carefully selected to meet RoHS requirement. Moreover, we at GIGABYTE are continuing our efforts to develop products that do not use internationally banned toxic chemicals.

Waste Electrical & Electronic Equipment (WEEE) Directive Statement

GIGABYTE will fulfill the national laws as interpreted from the 2002/96/EC WEEE (Waste Electrical and Electronic Equipment) directive. The WEEE Directive specifies the treatment, collection, recycling and disposal of electric and electronic devices and their components. Under the Directive, used equipment must be marked, collected separately, and disposed of properly.

WEEE Symbol Statement



The symbol shown below is on the product or on its packaging, which indicates that this product must not be disposed of with other waste. Instead, the device should be taken to the waste collection centers for activation of the treatment, collection, recycling and disposal procedure. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human

health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local government office, your household waste disposal service or where you purchased the product for details of environmentally safe recycling.

- When your electrical or electronic equipment is no longer useful to you, "take it back" to your local or regional waste collection administration for recycling.
- If you need further assistance in recycling, reusing in your "end of life" product, you may contact us at the Customer Care number listed in your product's user's manual and we will be glad to help you with your effort.

Finally, we suggest that you practice other environmentally friendly actions by understanding and using the energy-saving features of this product (where applicable), recycling the inner and outer packaging (including shipping containers) this product was delivered in, and by disposing of or recycling used batteries properly. With your help, we can reduce the amount of natural resources needed to produce electrical and electronic equipment, minimize the use of landfills for the disposal of "end of life" products, and generally improve our quality of life by ensuring that potentially hazardous substances are not released into the environment and are disposed of properly.

China Restriction of Hazardous Substances Table

The following table is supplied in compliance with China's Restriction of Hazardous Substances (China RoHS) requirements:



关于符合中国《电子信息产品污染控制管理办法》的声明 Management Methods on Control of Pollution from Electronic Information Products (China RoHS Declaration)

	Hazardous	s Substand	es Table			
		有毒有害	物质或元素	表(Hazardou	s Substance	
部件名称(Parts)	铅(Pb)	汞(Hg)	镐(Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
PCB板 PCB	0	0	0	0	0	0
结构件及风扇 Mechanical parts and Fan	×	0	0	0	0	0
芯片及其他主动零件 Chip and other Active components	×	0	0	0	0	0
连接器 Connectors	×	0	0	0	0	0
被动电子元器件 Passive Components	×	0	0	0	0	0
线材 Cables	0	0	0	0	0	0
焊接金属 Soldering metal	0	0	0	0	0	0
助焊剂, 散热膏, 标签及其他耗材 Flux,Solder Paste,Label and other Consumable Materials	0	0	0	0	0	0
○:表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006标准规定的限量要求以下。 Indicates that this hazardous substance contained in all homogenous materials of this part is below the limit requirement SJ/T 11363-2006						
×:表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006标准规定的限量要求。 Indicates that this hazardous substance contained in at least one of the homogenous materials of this part is above the limit requirement in SJ/T 11363-2006						
对销售之日的所受售产品,本表显示我公司供应链的电子信息产品可能包含这些物质。注意: 在所售产品中 可能会也可能不会含有所有所列的部件。 This table shows where these substances may be found in the supply chain of our electronic information products, as of the date of the sale of the enclosed products, Note that some of the component types listed above may or may not be a part of the enclosed product.						

产品中有毒有害物质或元素的名称及含量 Hazardous Substances Table
