

GeForce4 MX-Series Graphics Accelerator User's Manual

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2002/06/25

FCC INFORMATION

This device complies with part 15 of the FCC rules. Operation of this device is subject to the following two conditions.

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

(2) This device has been tested and found to comply with the limits of a Class B digital device.

These accessories are required to be used in order to ensure compliance with FCC Rules. It is the responsibility of the user to provide and use these accessories.

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Introduction

GeForce4 MX-Series GPU

1. Brief

Thanks for using the MX-Series graphics accelerator. MX-Series performance is unique to the 128-bit DDR/128-bit SDR memory; the nVIEW delivers the maximum flexibility and control in display options MX-Series. Allows for multiple configurations of CRTs and digital flat panels. High performance 256-bit 2D rendering engine optimized for 32-, 24-, 16-, 15-, and 8bpp modes, true color hardware cursor with alpha. This manual will help you install this card as quickly, smoothly as possible.

2. Requirements of the System

Before installation the following conditions are required in your system.

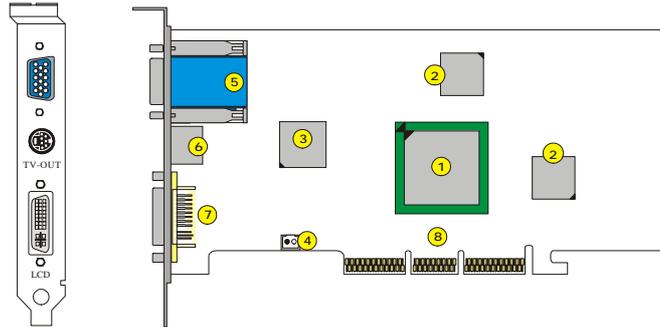
- Computer's processor~ Intel Pentium® processor or others compatible system
- Operating System~ Windows® 95 / 98 / ME / 2000 / NT/ XP display drivers
- LCD or CRT Monitor
- AGP Slot on your mainboard
- CD-ROM drive

Supports of the high-resolution graphics modes

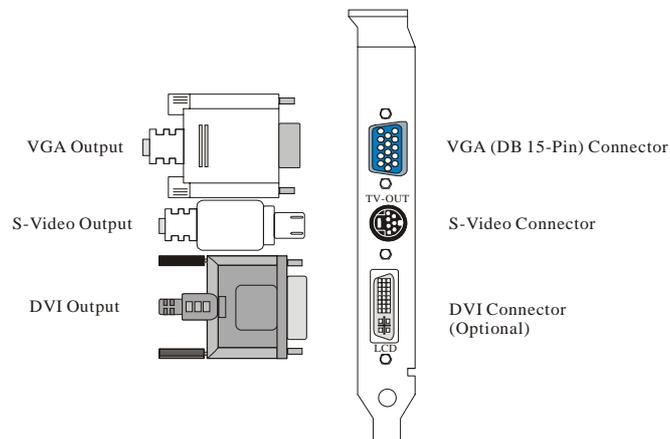
Resolution	Colors	Vertical Refresh Rate
640x480	8/16/32 bits	150 Hz
800x600	8/16/32 bits	150 Hz
1024x768	8/16/32 bits	120 Hz
1152x864	8/16/32 bits	120 Hz
1280x1024	8/16/32 bits	100 Hz
1600x1200	8/16/32 bits	85 Hz
1920x1200	8/16/32 bits	75 Hz
2048x1536	8/16/32 bits	60 Hz

3. MX-Series Description

3.1. MX460



① GeForce4 MX460 GPU	⑤ VGA Connector (D-Sub 15-PIN)
② 64MB DDR RAM	⑥ S-Video (TV-Out) Connector
③ Video Decoder / Encoder	⑦ DVI Connector (Optional)
④ Fan Connector	⑧ AGP Interface



MX460

Features

- nVIDIA GeForce4 MX 460 GPU
- Accuvision Antialiasing™
- Lightspeed Memory Architecture™ II
- 1.2 billion texels Fill Rate
- 64MB DDR Memory
- 8.8 GB/sec Memory Bandwidth
- High-Definition Video Processor(HDTV)
- AGP 4X/2X Support
- High-quality HDTV/DVD playback
- Integrated TV Encoder Supporting 1024x768 resolution
- Microsoft® DirectX® 8.X and OpenGL® 1.3 Optimizations

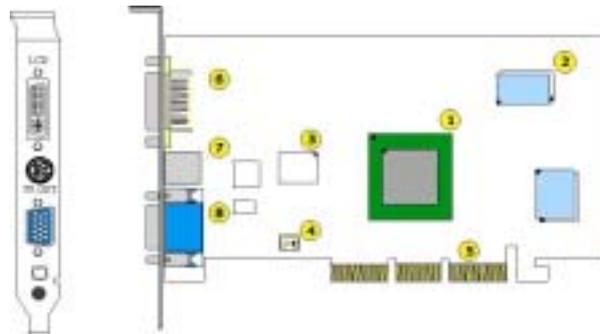
Unpack Checklist

The following items should be contained in the package.

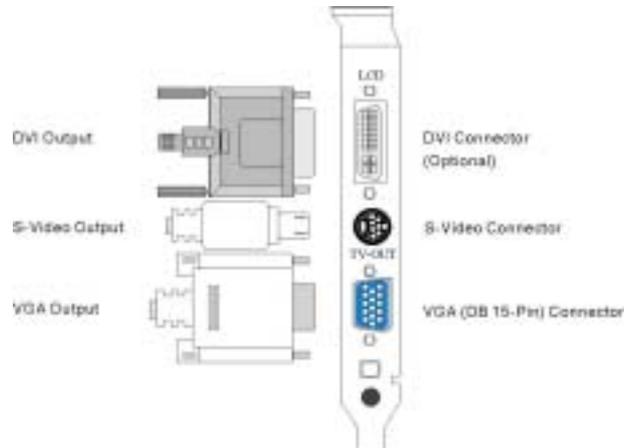
- The MX460 VGA Card
- User's Manual
- CD Driver and Utilities

MX440

3.2. MX440



①	GeForce4 MX440 GPU	⑤	AGP Interface
②	64MB DDR RAM	⑥	DVI Connector (optional)
③	VGA Flash BIOS	⑦	S-Video (TV-Out) Connector
④	Fan Connector	⑧	VGA Connector (D-Sub 15-PIN)



MX440

Features

- nVIDIA GeForce4 MX 440 GPU
- Accuvision Antialiasing™
- Lightspeed Memory Architecture™ II
- 1.1 billion texels Fill Rate
- 64MB DDR Memory
- 6.4 GB/sec Memory Bandwidth
- High-Definition Video Processor(HDTV)
- AGP 4X/2X Support
- High-quality HDTV/DVD playback
- Integrated TV Encoder Supporting 1024x768 resolution
- Microsoft® DirectX® 8.X and OpenGL® 1.3 Optimizations

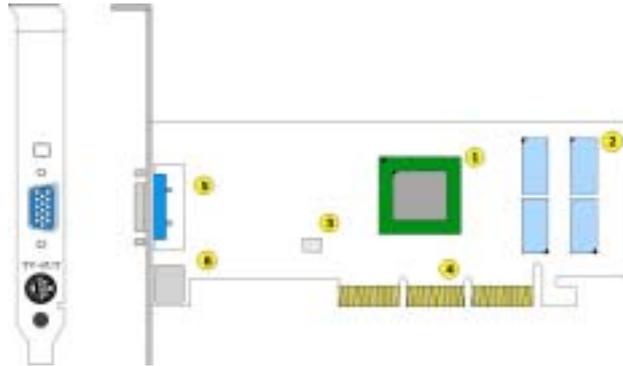
Unpack Checklist

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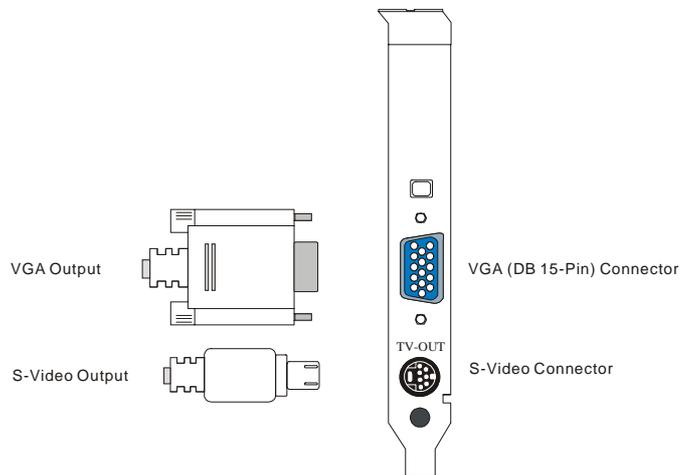
- The MX440 VGA Card
- User's Manual
- CD Driver and Utilities

MX420

3.3. MX420



① GeForce4 MX420 GPU	④ AGP Interface
② 64MB SDRAM	⑤ VGA Connector (D-Sub 15-PIN)
③ VGA Flash BIOS	⑥ S-Video (TV-Out) Connector



MX420

Features

- nVIDIA GeForce4 MX 420 GPU
- Accuvision Antialiasing™
- Lightspeed Memory Architecture™ II
- 1.1 billion texels Fill Rate
- 64MB SDRAM Memory
- 2.7 GB/sec Memory Bandwidth
- High-Definition Video Processor (HDTV)
- AGP 4X/2X Support
- High-quality HDTV/DVD playback
- Integrated TV Encoder Supporting 1024x768 resolution
- Microsoft® DirectX® 8.X and OpenGL® 1.3 Optimizations

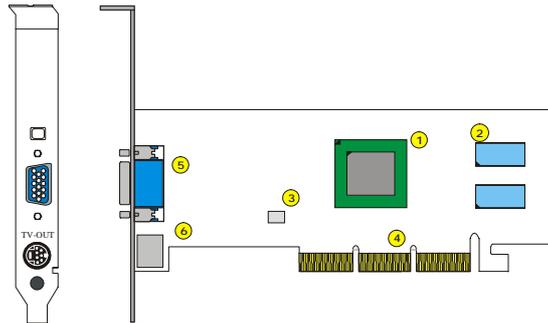
Unpack Checklist

The following items should be contained in the package.

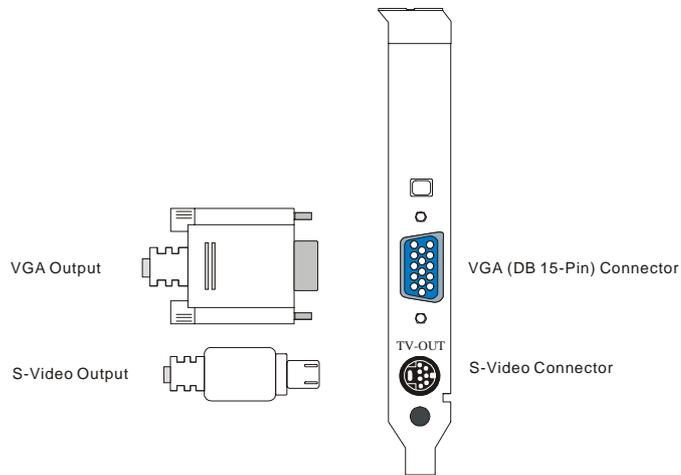
- The MX420 VGA Card
- User's Manual
- CD Driver and Utilities

MX420D

3.4. MX420D



① GeForce4 MX420 GPU	④ AGP Interface
② 64MB DDR RAM	⑤ VGA Connector (D-Sub 15-PIN)
③ VGA Flash BIOS	⑥ S-Video (TV-Out) Connector



MX420D

Features

- nVIDIA GeForce4 MX 420 GPU
- Accuvision Antialiasing™
- Lightspeed Memory Architecture™ II
- 1.1 billion texels Fill Rate
- 64MB, 64 bit DDR Memory
- 2.7 GB/sec Memory Bandwidth
- High-Definition Video Processor (HDTV)
- AGP 4X/2X Support
- High-quality HDTV/DVD playback
- Integrated TV Encoder Supporting 1024x768 resolution
- Microsoft® DirectX® 8.X and OpenGL® 1.3 Optimizations

Unpack Checklist

The following items should be contained in the package.

- The MX420D VGA Card
- User's Manual
- CD Driver and Utilities

Hardware Installation

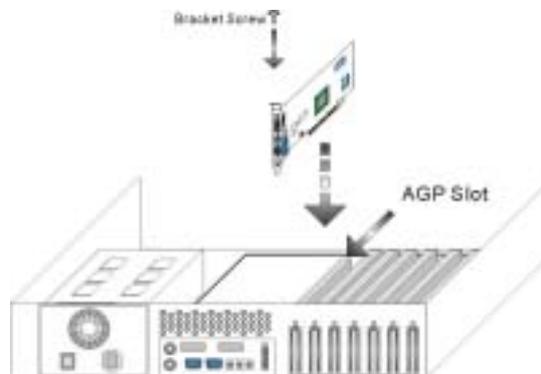
4. Hardware Installation

Please refer to the following steps.



If your mainboard has any onboard VGA capability, please disable it before installation.

1. Shut down the computer and remove the computer case.
2. Remove any existing graphics card on your mainboard.
3. Press this card into the AGP slot firmly and make sure it is fully installed. Then secure the card with a bracket screw.
4. Please insert other cards, plug all the cables, install other devices, and close the computer case.
5. Turn on the computer. You are ready to install the driver. Please go to software installation section.



The figure is for reference only; please regard to the products on hand.

Software Installation

5. Software Installation

To setup your driver and utility, please refer to the following steps.

5.1. Driver Installation

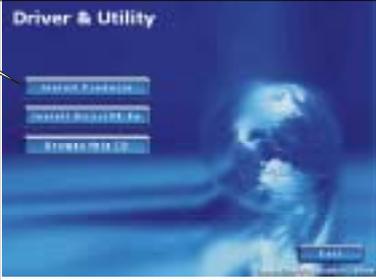
Please insert your Driver CD into the CD-ROM drive, and then you would see the auto-run screens. Please refer to the following steps.



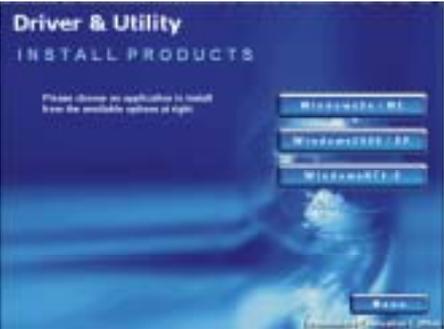
The figures in this section are for reference only; please refer to the screen on your computer.

Step1

Click "Install Products" icon



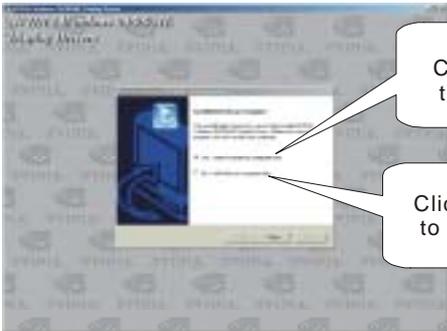
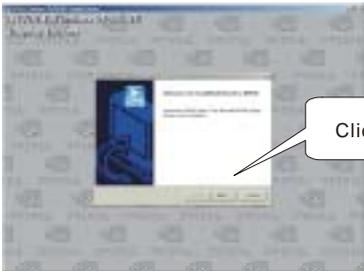
Step2



Select your operating system icon

Software Installation

Step3

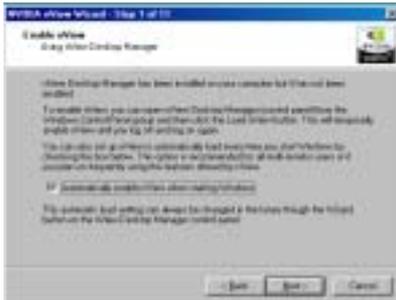
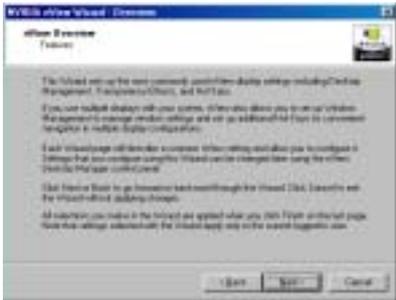


After complete the installation, please restart your computer.

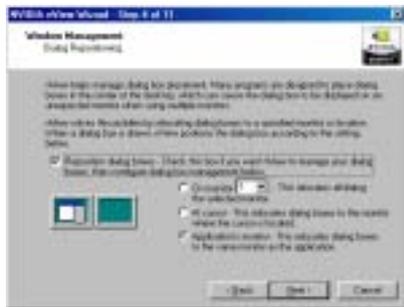
Software Installation

5.2. nVIEW Setup

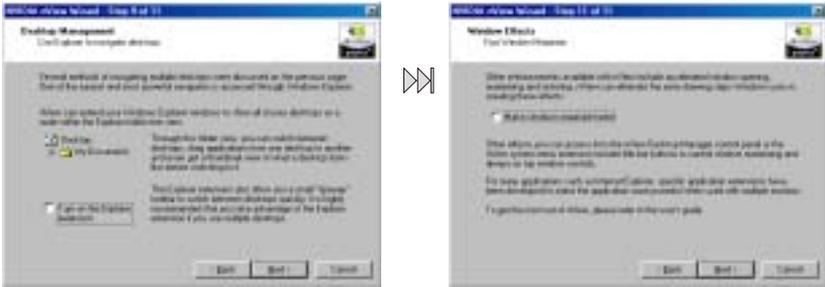
After restarting the computer, you would see the auto-run screens. The nVIEW will give you more productive when using your nVIDIA GPU-based video card. The nVIEW can enhance your desktop using a 3D effect called transparency, which allows you to see information underneath windows. It also includes many additional features that allow more efficient use of multiple displays with your computer. Please refer to the following steps.



Software Installation



Software Installation



Software Installation

5.3. DirectX Installation

Step1

Click "Install DirectX8.0a" icon

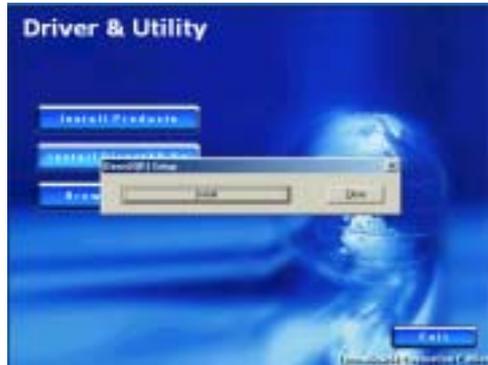


Step2



Software Installation

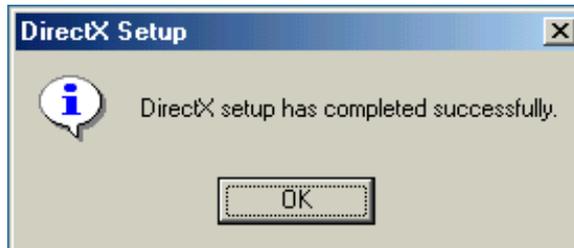
Step3



Step4



Step5



After complete the installation, please restart your computer.

Software Installation

5.4. OpenGL Settings

This section allows you to optimize your OpenGL settings for the quality, performance and compatibility.



Trouble Shooting

6. Trouble Shooting

After installation if you encounter any trouble, this chapter will help you to resolve the problem.

- v Make sure the card is fully installed in your AGP slot.
- v Make sure the software installation is correct.
- v Make sure your monitor and computer are plugged in and power is turned on.

If you still require assistance after reading this section, please contact your local distributor or visit our website (www.albatron.com.tw) for more technical support.