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hp nVIDIA  
GeForce2 MX  
(32 MB)  
graphics card

p2289a

installation guide  
installationshandbuch  
guide d'installation  
guía de instalación  
léase este primero  
guida di installazione



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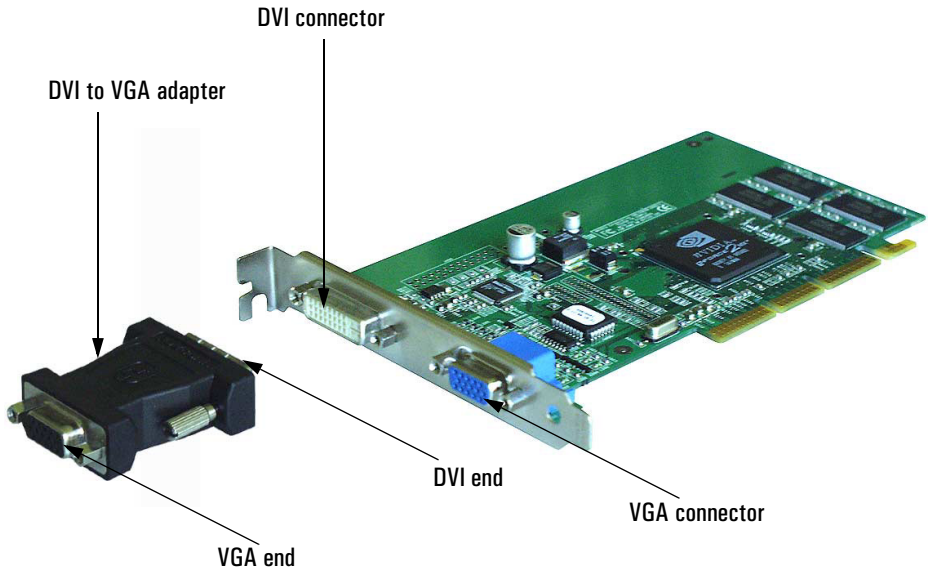
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# HP nVIDIA GeForce2 MX (32 MB) Graphics Card Installation Guide

## Introduction

Congratulations on purchasing the HP nVIDIA GeForce2 MX graphics card. This installation guide shows you how to install your graphics card. It includes information on how to install and the driver software and configure the output device.

### HP nVIDIA GeForce2 MX Features

- Dual architecture allows two simultaneous displays.
- Support for both DVI-I (digital flat panel) and VGA (standard analog) monitors.
- 32-bit color.
- AGP 4x with fast writes.
- 256-bit 2D and 3D graphics engine.
- 2.8 GB/s memory bandwidth.
- High performance hardware anti-aliasing for smoother edges.

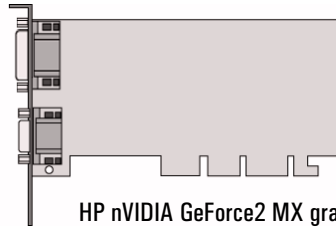
## What's in the HP nVIDIA GeForce2 MX Kit?

The HP nVIDIA GeForce2 MX kit includes the following items:

- 1 HP nVIDIA GeForce2 MX graphics card
- 1 DVI to VGA adapter
- 1 drivers CD-ROM
- 1 *Installation Guide* (this document).



DVI to VGA adapter



HP nVIDIA GeForce2 MX graphics card



Drivers CD-ROM



Installation guide

## Known Limitations

- Currently, only the primary display can function with 3D acceleration, the secondary display can only function with 2D acceleration. If only one display is used with the HP nVIDIA GeForce2 MX graphics card, it can function with 3D acceleration.
  - Non-DDC monitors are not supported on the secondary output.
- 

## Before You Install

### ***CAUTION***

Your computer and graphics board can be permanently damaged by static electricity. Before handling the board, touch the unpainted part of your computer's metal chassis. Maintain grounding by wearing a wrist strap attached to the chassis. Handle the board by its backplate and top edge. Do not touch the edge connector.

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## Supported Platforms

To find out which computers support your HP nVIDIA GeForce2 MX graphics card, go to the following HP Web site:

**[www.hp.com/go/pcaccessories](http://www.hp.com/go/pcaccessories)**

## Supported Operating Systems

- Windows 98
- Windows NT 4.0 (Service pack 4 and above)
- Windows 2000
- Windows XP.

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## Overview of the Installation Procedure

Installing your HP nVIDIA GeForce2 MX Graphics Card is a three step process. You need to:

- Remove the existing video driver software (if necessary)
- Install your HP nVIDIA GeForce2 MX graphics card
- Install the new driver software.

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### ***NOTE***

It is strongly recommended that you have no video driver installed when you begin installing your new card.

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## Removing the Existing Video Driver Software

This section describes how to remove the existing driver software on a computer running Windows 98, Windows 2000 or Windows NT 4.0. If you do not have any specific driver software installed (for example you are using the standard VGA driver) you can proceed to “Installing your HP nVIDIA GeForce2 MX Graphics Card” on page 6.

To remove an existing video driver:

- 1 In Windows click on **Start** ⇨ **Settings** ⇨ **Control Panel**.
- 2 Double click on **Add/Remove Programs**.
- 3 Click on the **Install/Uninstall** tab  
(Windows 98 & Windows NT 4.0 only).
- 4 In the list of software which appears, select the old driver software and click **Add/Remove** (Windows 98 & Windows NT 4.0)  
For Windows 2000 click on **Change/Remove**.
- 5 To confirm uninstallation of the driver click **OK**.
- 6 Follow the on-screen instructions.
- 7 When uninstallation is complete, restart your computer.



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## Installing your HP nVIDIA GeForce2 MX Graphics Card

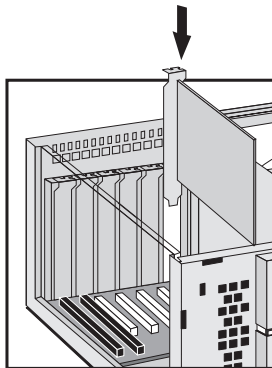
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### **WARNING**

For your safety, never remove the computer's cover without first removing the power cord, data cables and any connection to a telecommunications network. Always replace the cover before switching on again.

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- 1 With the computer turned off, disconnect the power cord and any connection to a telecommunications network, then remove the cover.
- 2 Disconnect the monitor cable from the old graphics card.
- 3 Depending on the computer model, you may need to remove either the screws or the retaining bracket which secures the graphic card in place.
- 4 Slide the card out of the slot.
- 5 Slide your new HP nVIDIA GeForce2 MX Graphics Card into the slot and press firmly.



- 6 Secure the card to the chassis by either replacing the screws or the retaining bracket.
- 7 Replace the computer's cover.

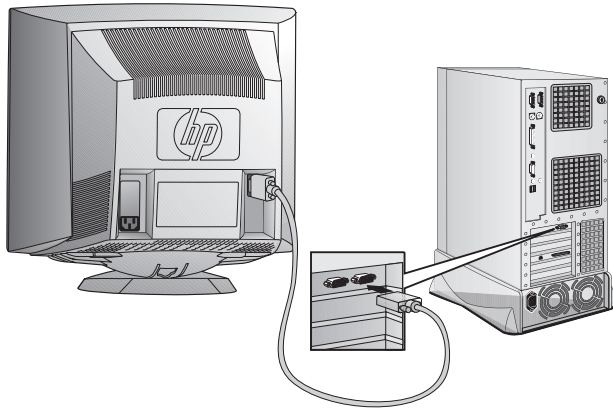
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### **WARNING**

Inserting your HP nVIDIA GeForce2 MX graphics card into the wrong slot could damage your graphics card.

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- 8 Connect the video cable from your monitor to the video connector on the card.



- 9 Reconnect the power cables and any telecommunication cables.
- 10 Restart your computer.

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**NOTE**

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Before you restart your computer, ensure your monitors are switched on. Otherwise the software may not be able to properly detect the monitors.

## Installing the New Driver Software

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### **NOTE**

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#### **For Windows NT 4.0 users only.**

Once the driver is installed you should reboot your computer.

If your computer has a Pentium III processor and Windows NT 4.0 you are using Service Pack 4 or earlier you should install the Intel SIMD driver available on the software CD-ROM.

Ensure that the Plug-and-Play Operating System setting of the BIOS is *disabled* before installation.

#### **Windows 98**

- 1 Start the computer. Windows 98 automatically detects the new graphics card.
- 2 In the **Add New Hardware Wizard** window, you will be prompted to install a driver for your graphics card, click **Next**.
- 3 Click **Next** and insert the software CD-ROM disk in your drive.
- 4 Select **Specify a Location**, then click **Browse**.
- 5 Go to the **win98** folder on the software CD-ROM and click **OK**.
- 6 Click **OK** in the **Specify a Location** window then click **Next**.
- 7 Click **Next** then click **Finish**.
- 8 Select **Yes** to restart your computer.

#### **Windows NT4.0 (SP4+)**

- 1 Start the computer.
- 2 Insert the software CD-ROM disk in your drive.
- 3 In the Windows Explorer, go to the **winNT** folder on the software CD-ROM.
- 4 Select the **setup.exe** file and click **OK**.
- 5 Click **Next**.
- 6 Select **nVIDIA GeForce2 MX** and click **OK**.
- 7 Click **Finish** to restart your computer.

## Windows 2000

- 1 Start your computer. Windows 2000 automatically detects the new graphics card.
- 2 In the **Found New Hardware Wizard** window, you will be prompted to install a driver for your graphics card, click **Next**.
- 3 Select **Search for a similar driver for my device** and click **Next**.
- 4 Insert the software CD-ROM disk in your drive. Select **Specify a Location** and click **OK**.
- 5 Go to the **win2000** folder on the software CD-ROM. Select the **nvhc** file and click **Open**.
- 6 Click **OK** in the **Specify a Location** window, then click **Next**.
- 7 Select **Finish** to restart your computer.

## Windows XP

- 1 Start your computer and run Windows XP.
- 2 Windows XP automatically detects the new graphics card and installs the necessary drivers.

## Troubleshooting

This section describes how to solve problems which may occur with your HP nVIDIA GeForce2 MX Graphics Card.

If the computer fails to start or if the screen is blank and there are no error messages

<b>Solution</b>	<b>Explanation</b>
Check that the computer and monitor are turned on. (The power light should be illuminated.)	These are useful routine checks, especially if you have just moved the computer or the monitor.
Check the monitor's contrast and brightness settings.	
Make sure the power outlet is working.	
Check that the graphics card is correctly installed.	

The computer starts normally but the screen is blank or the contents are corrupted.

<b>Solution</b>	<b>Explanation</b>
Check that your monitor supports the graphics card resolution and refresh rate. If the monitor does not support the selected resolution, boot in Safe mode (Windows 98, Windows 2000) or VGA mode (Windows NT 4.0).	This problem may occur if you have just changed your monitor.
The graphics card driver may be corrupted or not properly installed. Reboot in Safe mode (Windows 98, Windows 2000) or VGA mode (Windows NT 4.0).	If the driver files are corrupted, the computer may boot but may be unable to switch to high-resolution mode.
Remove the graphics card and then reinstall it. Ensure that the board is properly inserted in the AGP slot.	The graphics card may not be seated correctly. This causes the screen to go blank at this point.

Graphics performance is below expectations

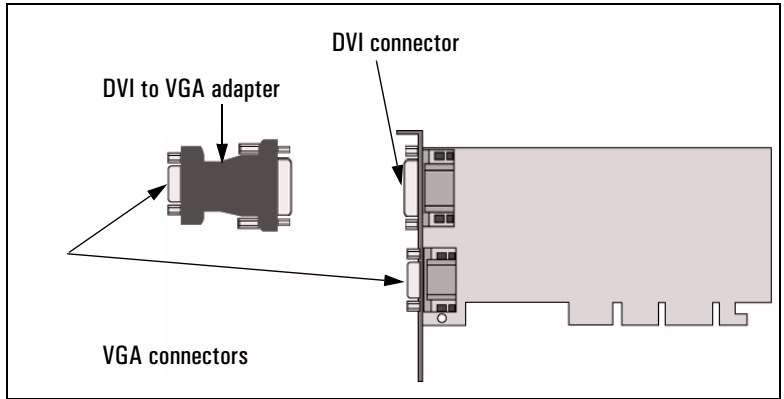
<b>Solution</b>	<b>Explanation</b>
The graphics card driver may be corrupted or not properly installed. Reboot in Safe mode (Windows 98 and Windows 2000) or VGA mode (Windows NT 4.0).	If the driver files are corrupted, the computer may boot but may be unable to switch to high-resolution mode.
Try reducing the screen resolution, for example, from 2048 x 1536 to 1280 x 1024. Selecting a high screen resolution may be incompatible with the accelerated 3D graphics applications.	Some 3D applications obtain higher performance when using lower screen resolution settings. Using lower screen resolutions can leave more video memory free for 3D acceleration features such as texture mapping and z-buffering.
Check HP Support Services (refer to page 15) for an updated driver version for your application.	HP frequently updates the graphic drivers to incorporate feature and performance enhancements or to fix problems found when running specific applications.
Check for additional information on the web. Refer to “HP Support Services” on page 15.	HP provides additional documentation, such as “Frequently Asked Question (FAQs)” to help you solve any problems you may have with your graphics card.

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## Technical Specifications

Feature/Function	Implementation
Physical dimensions	Width: 19.0 cm (7.4 inches) Height: 35.8 cm (14.0 inches) Depth: 38.1 cm (14.8 inches)
Power requirements	5W
AGP support	AGP 4X with fast writes
Operating temperature	5 °C to 35 °C
Operating humidity	15% to 80% (non-condensing)
Professional 3D rendering features:	<ul style="list-style-type: none"> <li>• <i>Second Generation Transform and Lightning Engine</i> frees the computer's main processor for other tasks and provides faster transform and lightning processing.</li> <li>• <i>nVIDIA Shading Rasterizer</i> provides natural visual properties such as cloud, smoke, water, textiles, plastic to images.</li> <li>• <i>32-bit Z/stencil buffer</i> eliminates "polygon popping" problems in high polygon 3D imaging.</li> <li>• <i>Digital Vibrance Control (DVC)</i> controls color separation and intensity, optimizing the color saturation of an image.</li> <li>• <i>Cube environment mapping.</i></li> <li>• <i>DirectX and S3TC texture compression.</i></li> <li>• <i>700 Mtexel fill rate.</i></li> <li>• <i>20 Mtriangles/second setup</i></li> </ul>
RAMDAC frequency	350 MHz (primary display) 150 MHz (secondary display)
Memory bandwidth	2.8 GB/s

## Physical Layout





## HP nVIDIA GeForce2 MX (32 MB) Graphics Card Installation Guide

### Technical Specifications

Your HP nVIDIA GeForce2 MX Graphics Card supports the resolutions and refresh rates listed below:

<b>Resolution</b>	<b>Maximum Refresh Rate (Hz)</b>	<b>Color Depth (bits)</b>
320 x 200	120	8, 16, 32
320 x 240	120	8, 16, 32
400 x 300	120	8, 16, 32
480 x 360	120	8, 16, 32
512 x 384	100	8, 16, 32
640 x 400	120	8, 16, 32
640 x 480	240	8, 16, 32
800 x 600	240	8, 16, 32
960 x 720	120	8, 16, 32
1024 x 768	240	8, 16
1152 x 864	200	8, 16
1280 x 960	170	8, 16
1280 X 1024	170	8, 16
1600 X 900	150	8, 16
1600 X 1200	120	8, 16
1920 X 1080	100	8, 16
1920 X 1440	85	8, 16
2048 x 1536	75	8, 16

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## HP Support Services

For more information on your graphics board and other accessories available for your computer, you can visit the following pages on HP's Web site:

For HP Kayak PC            [www.hp.com/go/kayaksupport](http://www.hp.com/go/kayaksupport)

For HP Vectra PCs        [www.hp.com/go/vectrasupport](http://www.hp.com/go/vectrasupport)

For HP Brio PCs           [www.hp.com/go/briosupport](http://www.hp.com/go/briosupport)

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## Regulatory Information

### FCC (for USA only)

#### Federal Communications Commission Radio Frequency Interference Statement

##### Warning:

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 and uses, and can radiate radio frequency energy and, if not installed and used in accordance with the 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 correct the interference by one or more of the following measures:

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

Hewlett-Packard's FCC Compliance Tests were conducted with HP-supported peripheral devices and HP shielded cables, such as those you receive with your system. Changes or modifications not expressly approved by Hewlett-Packard could void the user's authority to operate the equipment.

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This Class B digital apparatus with the Canadian ICES-003 Regulations.

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

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