



Getting Started Guide

PCIe Hardware Installation Procedures

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Documentation Updates

ATI is constantly improving its product and associated documentation. To maximize the value of your ATI product, you should ensure that you have the latest documentation. ATI's documentation contains helpful installation/configuration tips and other valuable feature information.



IMPORTANT SAFETY INSTRUCTIONS

- **Read Instructions** - All the safety and operating instructions should be read before the product is operated.
- **Retain Instructions** - The safety and operating instructions should be retained for future reference.
- **Heed Warnings** - All warnings on the product and the operating instructions should be adhered to.
- **Compatibility** - This option card is for use only with Power Macintosh® personal computers that have Installation Instructions detailing user installation of card cage accessories.
- **Grounding** - For continued protection against risk of electric shock and fire, this accessory should be installed only in products equipped with a three-wire grounding plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace the obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.
- **Secure Attachment** - All card securement pins shall be completely tightened as to provide continuous bonding between the option card and the PC chassis.
- **Lightning** - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet, and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- **Power Lines** - An outside antenna system should not be located in the vicinity of overhead power lines or other light or power circuits, or where it can fall into such power lines or circuits.
- **Antenna Installation** - When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them may be fatal.

Note: This graphics card is for use only with compatible UL Listed personal computers that have Installation Instructions detailing user installation of card cage accessories.

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Before You Begin

Before you begin installing your new graphics card, please do the following.

Record Your Card's Serial and Part Numbers

The serial number and 102 part number printed on the graphics card are required for product registration. They are located on a sticker on the back of the card, and are shown in boldface and underlined in the illustration below.

Write these numbers down before installing your new ATI product.



Possible serial number and 102 part number arrangement

1	Serial number (S/N)
---	---------------------

2	102 part number (P/N)
---	-----------------------

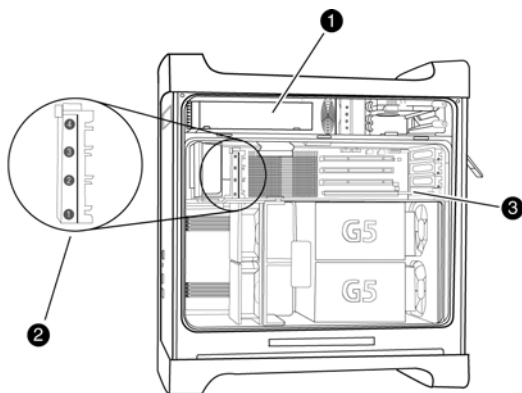
Installing Hardware

This chapter will guide you through the physical installation of your new graphics card.

The Card's Power Supply

Supplemental power is a basic consideration in the installation process. Your new ATI graphics card requires additional power that is supplemented from the computer's main power supply.

Note: For best performance install the graphics card in slot 1 of a PCIe™ based Power Mac G5.



Power Mac G5

- | | |
|---|---------------------------------|
| ① | Optical Drive |
| ② | Numbered Expansion Slots Guides |
| ③ | PCIe™ Expansion Slots |
-

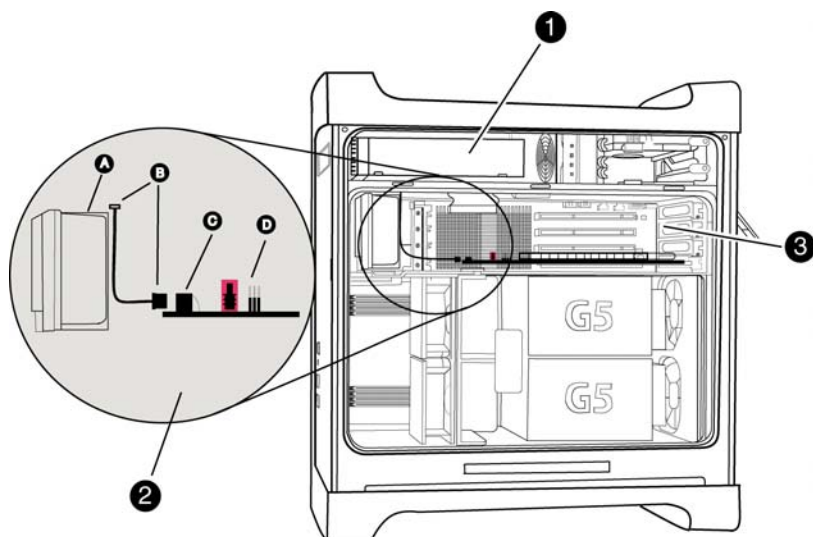
Installing your graphics card

- 1** Turn off your computer, monitor, and all other attached peripheral devices.
- 2** Unplug the computer's power cord and disconnect all cables from the back of your computer.
- 3** Open your computer. If necessary, consult your computer system manual for instructions.



Remember to discharge your body's static electricity by touching the power supply or the metal surface of the computer chassis.

- 4** If you are replacing an existing graphics card, remove that card. Otherwise, locate an appropriate expansion slot 1, and remove the metal back-plate cover if required.
- 5** Align the connector on the card with the expansion slot and press firmly until fully seated.
- 6** Fasten the graphics card securely with the retention screw.



1

Power Mac G5

- | | |
|----------|------------------------|
| ① | Optical Drive |
| ② | Power Connection |
| ③ | PCIe™ Expansion Slot 1 |
-

- | | |
|----------|--------------------------------|
| A | G5 Cooling Fan |
| B | G5 Power cable |
| C | Graphics card power connection |
| D | Graphics card |
-

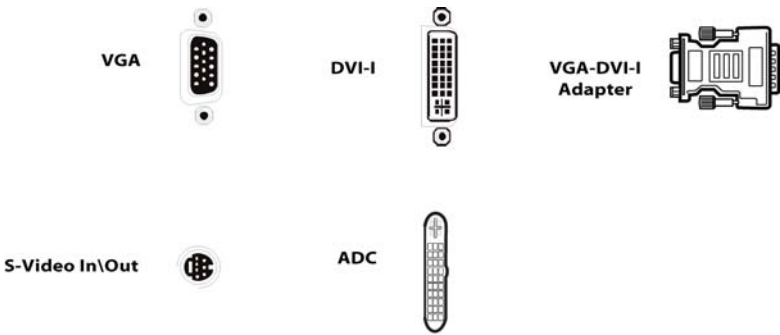
- 7** Remove the G5 cooling fan. If necessary, consult your computer system manual for instructions.
- 8** Connect the power cable (B) to the power connection on the G5 motherboard. If necessary, consult your computer system manual for instructions.
- 9** Connect the power cable (B) to the 6-pin power connection (C) on the graphics card.
- 10** Reconnect any cables you have disconnected and plug in the computer's power cord.
- 11** Connect the monitor to the new graphics card.
- 12** Turn on the monitor, and then your computer.



An image of a graphics card with a flashing red power connector will appear on your display and the computer will not start if the graphics card is not correctly connected to the power supply.

Connecting Devices

The following illustration shows typical connections found on ATI graphics cards:



Connector Types	
VGA	Supports an analog monitor
DVI-I	Supports a digital monitor
DVI to VGA Adapter	Supports an analog monitor to DVI-I connection
S-Video	Supports a TV, VCR, Camcorder
ADC	Supports an Apple® Display Connector

Installing Software and Drivers

This chapter will guide you through the installation of the drivers and software associated with your new graphics card.

Install the Software

- 1 Insert the ATI Installation CD into the computer's optical drive.
- 2 Double-click on the ATI graphics card installer icon.

Note: Mac OS® X users may be prompted for the Administrator's password.

- 3 Follow the instructions that appear on the screen.

Upon completion of the installation process, a file containing a list of installed files and their location on your hard disk is created allowing you to locate any file installed during the installation process.

- 4 When you see a message that the installation was successful, click **Restart**. To perform further installations, click **OK**. You need to manually restart your computer to complete the installation of the ATI graphics card software.

About ATI Software

An ATI graphics card requires several additional components be added to your System folder. The ATI graphics card installer application does this for you, installing the following components:

- ATI Displays Control Panel
- ATI Multimedia Components

ATI Displays Control Panel

The ATI Displays control panel lets you configure your card and access software and hardware features. These features are described in the User's Guide that came with your ATI graphics card.

ATI Multimedia Components

ATI's Multimedia Components are placed in the Extensions folder, located within the System/Library/Extensions folder in Mac OS® X. They enable all of the advanced features of your card, including 3D and 2D acceleration, where applicable.

Troubleshooting Tips

If you have a general question, or encounter problems with your card, please review the following troubleshooting tips. Further troubleshooting information can be found on the ATI Customer Care web site at ati.com.

Use *Apple® System Profiler* found in the Utilities folder, to generate a report outlining your system configuration. This will assist in diagnosing your computer problem.

General Problems	
Problem	Possible Solution
Resolution set to 800 x 600 or less	Change the resolution setting in the Displays control panel in Mac OS® X.
A monitor with BNC connectors cannot be connected to the graphics card	Monitors that only have BNC connectors require a synchronization ("sync") signal to be sent down the green line. This is called Sync-on-Green (SOG). ATI graphics cards do not output a SOG signal. Adapters are available for your computer to convert the separate sync signal from the ATI card to a SOG signal for the monitor. Check with your local Apple® Authorized Dealer for availability of SOG adapters.
Support for Power Macintosh® computer	- ATI graphics cards only work in PCI, AGP, or PCIe™ based Power Macintosh® computers with a PCI (33MHz or 66MHz), AGP expansion slot or PCIe™ expansion slot. The minimum system requirements for your specific ATI graphics card are listed in the User's Guide and on the product box. - Due to the unique design of the Apple® G4 Cube, ATI graphics cards will not fit into this system.

Available Resources

This chapter provides information on where to find the user's guide, where to get additional accessories, how to register your product, and compliance information.

User's Guide

Your ATI graphics card comes with a User's Guide that provides in-depth information of the card's many features and functions. The User's Guide provides reference, specification, disclaimer, legal, and compliance information that is not contained in this Getting Started guide.

In Mac OS® X, the User's Guide available on the install CD-ROM.

Additional Accessories

Additional and replacement cables, installation CD-ROMs, manuals, and other accessories for ATI products can be purchased from the online ATI store at:

ati.com/online/accessories

Product Registration

To activate Customer Care you must register your product with ATI at:

ati.com/online/registration

Customer Care

For detailed instructions on how to use your ATI product, refer to the Online User's Guide included on your ATI installation CD-ROM.

If you require further assistance with your product, the following Customer Care options are available:

Service	Availability	Language	Access
Online or Mail	24/7	English, French, Spanish, Portuguese, German	ati.com or ATI TECHNOLOGIES INC. Attention: Customer Care 1 Commerce Valley Drive East Markham, Ontario Canada L3T 7X6
Telephone US & Canada	9:00AM - 7:00PM EST. Monday to Friday.	English	1-877-284-1566 (toll-free) or 1-905-882-2626 (International and/or local toll charges to Canada will apply).
Telephone Europe and Other Regions	10:30 to 00:00 GMT 10:30 to 19:00 GMT 12:00 to 20:30 GMT	English German- French Spanish- Portuguese	+00800-6677-1111 (toll-free) or +1-905-882-5549 (International and/or local toll charges to Canada will apply)
Telephone Latin America / South America	7:00AM to 3:30 PM EST 7:00AM to 7:00PM EST	Spanish, Portuguese English	+0800-333-5277 (Argentina) +0800-891-9068 (Brazil) +001800-514-3276 (Mexico) other: +1-905-882-3277 (International and/or local toll charges to Canada will apply)

ATI Customer Care will work to resolve your issue and help you to get your ATI product up and running. If your issue is not resolved, our technicians will determine whether the difficulty you are experiencing is the result of the ATI

product, whether your product contains a defect, and whether your product is under warranty.

- ATI Customer Care is unable to assist with refunds, returns, or exchange specific inquiries. If resolving the problem being experienced is critical to your decision to keep the product, it is your responsibility to ensure that you know and are within the period of time your reseller will allow for refunds, returns or exchange.
- ATI is not responsible for any expense incurred accessing Customer Care. It is expected that customers will review the expense associated with the available support options and will choose the method that best meets their needs and budget.
- ATI Customer Care reserves the right to limit support options for products that are not registered or are at End of Life.

