



G4 Processor Upgrade Installation for AGP Power Macs

Tools

Medium-sized Philips screwdriver
Flathead screwdriver
Needle nose pliers

Items

FastMac G4 Processor Upgrade
Latest Apple Firmware (from apple.com)



IMPORTANT: STEPS BEFORE INSTALLING

1. *Before installing, we recommend you back up important information stored on your Hard Drive.*
2. *Upgrade to the latest Firmware from Apple if you haven't done so already. You can find what version you have by running System Profiler. Look for "Boot ROM version." Anything previous to \$0004.28 f1 needs to be updated.*
3. *Make sure the machine is unplugged and you are properly grounded and free from static electricity. Touch bare metal before handling and installing upgrade card. Hold card only by the edges and do not touch connector contacts.*

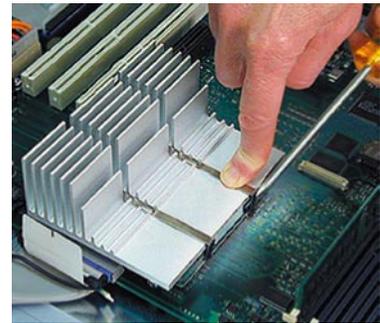
For Customer Service and Technical Support email: support@fastmac.com or phone:
408.562.3900. M-F 10am-4pm PT. Technical Support Provided by Allmac

For Sales email: sales@fastmac.com or phone: 408.850.6232

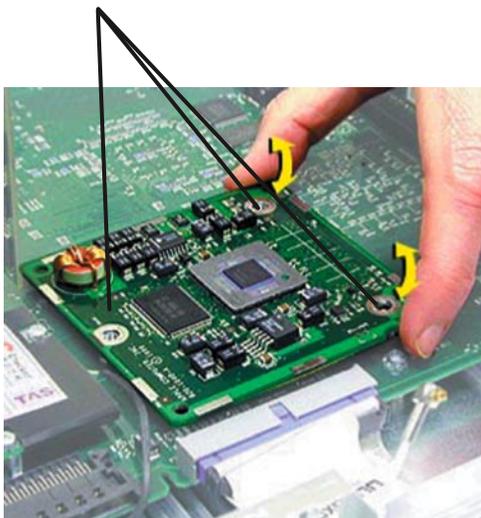
Original Processor Removal:

1. Locate the heatsink. [On Digital Audio unplug the fan connector, release the plastic tabs from the processor card, then remove housing. On Quicksilver: remove screws on rubber fan housing through grill at the back of the computer. Lift straight up to remove.]
2. Press down on the top of the heatsink clip, use a small flatblade screwdriver to lift up and out on the front tab of the clip to release it.
3. Remove the heatsink clip and lift the heatsink off the processor module.

Warning: When removing the heatsink, be careful not to bend the processor module beneath it.



Mounting Screws



3. Remove the processor mounting screws.
4. To disconnect the processor from the main logic board, hold it by the edges nearest the two opposing screw holes (on either side of the connector), gently rock the processor right to left, and lift straight up. If your computer's configuration has RAM installed that makes it difficult to hold the processor correctly, remove one row of RAM to give you better access.

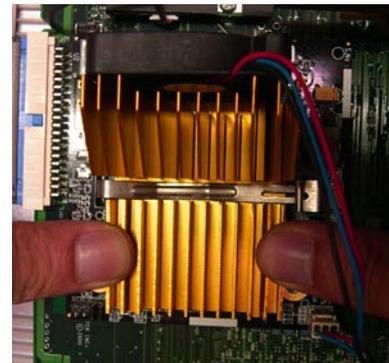
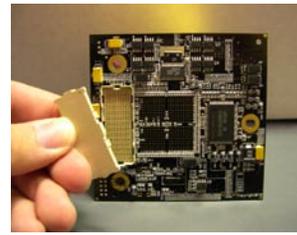
Warning: Hold the module as shown when removing or installing it to avoid bending the processor connector pins. Lifting processor from the side with one screw could damage computer and void Apple's warranty.



FastMac Upgrade Installation:

1. Remove the protective cover from the connector on the bottom of the processor board.
2. Align screw holes to the mounting holes on the Main Logic Board. Once you are sure the processor board is properly aligned, gently press on the lower end of the heatsink with thumbs as shown. **Do not press on the rear of the processor card.**

Note: Upgrades Cards are preset for 100MHz Bus systems: AGP (Sawtooth), Mac Server G4 or Gigabit Ethernet. If upgrading Digital Audio or Quicksilver (133MHz Bus), use Jumper Settings below.



FastMac Upgrade Speed		Jumper Settings				
100 MHz Bus AGP (Sawtooth) Mac Server G4 Gigabit Ethernet	133 MHz Bus Digital Audio Quicksilver Quicksilver 2002	Jumper On		Jumper Off		
		J5	J4	J3	J2	J1
	733 MHz					
	800 MHz					
700 MHz	933 MHz					
800 MHz						
	1.0 GHz					
900 MHz	1.2 GHz					
	1.26 GHz*					
	1.4 GHz					
	1.467 GHz					
1.0 GHz						
1.2 GHz						
1.25GHz*						
1.4 GHz						

*Note starred speeds are supported by FastMac X2 Cards, but will show up incorrectly in System Profiler.

3. Once the FastMac upgrade has been properly and securely attached to the main logic board, replace the three mounting screws.
4. Close the case. Restart and begin enjoying your new upgrade.

FCC Statement

FastMac declares that the X2 processor upgrade complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1.This device may not cause harmful interference.
- 2.This device must accept any interference received, including interference that may cause undesired operation.

Note – 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, 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 try 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 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/television technician for help.

Modifications to this device may void the authority granted to the user by the FCC to operate this equipment.



Limited Warranty Information

FastMac's limited lifetime warranty: This product is warranted by FastMac.com to be free from defects in material and workmanship for three (3) year from the date of purchase by the Purchaser.

Purchaser's sole remedy under this warranty shall be, at FastMac's sole discretion, refund, repair or replacement as provided in this warranty. FastMac's warranty shall not apply to any failure or defect caused by misuse, abnormal use, neglect, abuse, alteration, improper installation, unauthorized repair or modification, improper testing, accident or causes external to the product such as but not limited to excessive heat or humidity, power failure, or surges, or improper installation, or damage arising from improper packaging during transport; and damage resulting from causes, including without limitation, lack of technical skill, competence, or experience of the user.

FASTMAC IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR CONDITION, OR UNDER ANY OTHER LEGAL THEORY, INCLUDING BUT NOT LIMITED TO LOST PROFITS, DOWNTIME, GOODWILL, DAMAGE TO OR REPLACEMENT OF EQUIPMENT AND PROPERTY, ANY COSTS OF RECOVERING, REPROGRAMMING, OR REPRODUCING ANY PROGRAM OR DATA STORED IN OR USED WITH FASTMAC PRODUCTS, AND ANY FAILURE TO MAINTAIN THE CONFIDENTIALITY OF DATA STORED ON THE PRODUCT. FASTMAC SPECIFICALLY DOES NOT REPRESENT THAT IT WILL BE ABLE TO REPAIR ANY PRODUCT UNDER THIS WARRANTY OR MAKE A PRODUCT EXCHANGE WITHOUT RISK TO OR LOSS OF PROGRAMS OR DATA. Some states do not allow the exclusion or limitation of incidental or consequential damages or exclusions or limitations on the duration of implied warranties or conditions, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary by state.

Non-defective purchases which are returned to FastMac must be returned within thirty (30) days of purchase. For non-defective purchases which are returned or refused by the Purchaser, FastMac will, at its discretion, issue a credit or refund for the purchase price of the goods, less all shipping charges incurred in the shipment and a restocking fee of no less than fifteen percent (15%) of the price of the goods.