



PowerMac Processor Upgrade

MP Enabled! Can be upgraded to a Dual G4 processor configuration!

MACH Speed G4 ZIF™

Compatible Computers



PowerMac G3 B&W



PowerMac G3 Beige Desktop



PowerMac G3 Beige Tower



PowerMac G4 (PCI Graphics)

What is the MACH Speed G4 ZIF?

The MACH Speed G4 ZIF is a processor replacement for PowerMacs G3 series computers. It physically replaces the original G3 processor to give a huge performance increase.

What is a ZIF?

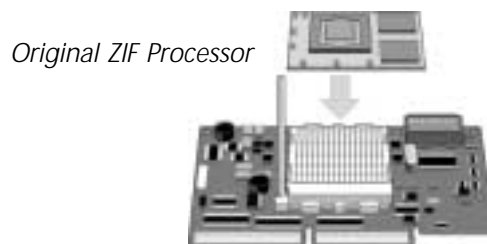
The MACH Speed range of products are all ZIF based. ZIF means "zero insertion force" and is simply the type of connector used to mount a CPU in the computer.

What kind of speed increase can I expect with a MACH Speed G4?

In day-to-day tasks, a G4 processor is between 10% and 25% faster (big improvement in 3D applications) than a G3 processor running at the same speed (MHz). G4's also have a special AltiVec™ unit or "Velocity Engine" that can accelerate calculations by up to 900%. Note that to achieve this sort of improvement, the application needs to be optimized (written) to use the AltiVec engine. For example, Adobe PhotoShop 5.5 and Final Cut Pro use AltiVec. MacOS X is also extensively optimized for AltiVec.

Does this mean I have to throw away my original ZIF?

No, you can use it in another machine. XLR8's modular approach to upgrades means that you can take your old G3 ZIF processor and add it to a Carrier ZIF adapter card, which can upgrade a 7300-9600 class of machine to G3. You'll get two upgrades for the price of one!



Original ZIF Processor

Carrier ZIF adapter card

Jumpers and switches?

Carrier ZIFcards are easy to set. The manual explains in detail how to adjust the card for the ZIF processor card that is installed onto it. It would not be possible to have such a versatile product as the Carrier ZIF (remember, it runs with any standard G3 or G4 processor) - without having switches to adjust the adapter card to an individual ZIF processor.

What about dual processor upgrades?

Sorry, they've been discontinued.

List of Altivec enhanced applications

- Adobe Systems, Inc. Photoshop 5.5 (graphics)
- Adobe Systems, Inc. After Effects 4.1 (media editing)
- Apple Computer Final Cut Pro 1.2 (video editing)
- Astarte Software AG MPack 3.5.1 (video compression)
- Bitheadz, Inc Osmosis 1.1 (music sample conversion utility)
- Casady & Greene Sound JAM (MP3 player/encoder)
- Connectix Corporation Virtual PC (emulator)
- Deneba Canvas 7 (graphics)
- Emagic GmbH Logic Audio Platinum (music composition/audio processing)
- Heuris MPEG Power Professional (video compression)
- Linker Systems, Inc. Animation Stand (animation)
- Macromedia Flash (web animation)
- Macromedia Dreamweaver (web content)
- Macromedia Director (animation)
- Maxon Cinema 4D (3D rendering)
- MetaCreations Kai's Power Tools 6 (graphics)
- MetaCreations Bryce (3D rendering)
- NewTek Lightwave 3D (3D rendering)
- Puffin Designs Commotion (video editing)
- QDesign Qdesign (music codec)
- Sonic Solutions Sonic DVD Fusion (DVD creation)
- Sonic Solutions Sonic DVD Transcoder (DVD creation)
- Sonic Solutions Sonic DVD Creator (DVD creation)
- Sorenson-Vision Sorenson 2.0 (video compression)
- BIAS - Peak 2.10-TDM (Digital audio editing program)
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- Bitheadz, Inc. Phrazer (Real time audio loop sequencer)
- Bitheadz, Inc. Retro AS-1 version 2.0 (Virtual analog synthesizer)
- Bitheadz, Inc. Unity DS-1 version 2.0 (Real Time Digital Sampler)
- Cubase VST/24
- Emagic - Logic Audio 4.1 (synthesis of digital audio recording, digital signal processing, MIDI sequencing, and notation)
- Proteron, LLC N2MP3-1.5b3 (MP3 encoder)
- Quadamation PlayerPRO 5.4 G4 (MOD/MIDI file tracker, composer and player)
- StarNine Technologies, Inc WebSTAR Server Suite 4.2 (Internet server software)
- Terra Soft Solutions Black Lab Linux (Workstations and Parallel Computing Systems)
- Terran Interactive, Inc. - Media Cleaner Pro 4.0.2 (digital media compression)
- Terran Interactive, Inc. - Media Cleaner Power Suite 4.0.2 (QuickTime Prep)

Applications optimized for multiprocessing include:

- Adobe Photoshop
- Adobe AfterEffects
- Adobe Premiere
- Alias|Wavefront's Maya
- Apple Final Cut Pro
- Casady & Greene's SoundJam MP
- NewTek LightWave 6
- Maxon Computer Cinema 4D,
- Digital Origin Edit DV
- Media 100 Inc.'s Media 100 Suite.
- Sorenson's Sorenson Video
- Terran Interactive's MediaCleaner Pro