

TRANSWARP GS™ AND TRANSWARP™

Computing at Warp Speed.

It's an experience you shouldn't miss. And with TransWarp™ and TransWarp GS™ (available Winter 1988) you won't have to. Because TransWarp for the IIe, II+, Laser and Franklin will run your software up to *three and a half times faster*. And TransWarp GS will run software on your IIGs *more than twice as fast*.

No more yawning while your computer slowly rearranges text, re-configures graphics or calculates spreadsheets. With ultra-fast RAM, our TransWarps speed up virtually all Apple software - including AppleWorks, Beagle Brothers' TimeOut Series, Springboard Publisher, SuperCalc 3a and a world of educational software, graphics and games.

And both TransWarp and TransWarp GS are compatible with all standard peripheral cards (such as GS-RAM, RamWorks and Apple memory cards), Chinook and Sider hard disks, 3.5" UniDisks, 80 column cards (TransWarp only), modems, clock cards, mice and more. There's even a 16 bit upgrade chip available for the TransWarp, for the serious programmer.

A cinch to use.

Simply plug TransWarp into any slot in your Apple II, IIe, or II+ (including slot 3 in the IIe). Or plug TransWarp GS into slot 3 or 4 on the IIGs (TransWarp GS won't override the slot's function). And instantly you'll be computing at speeds you only dreamed about before.

TransWarp works automatically - should you ever want to slow down to normal speed, simply press the ESC key while turning your computer on. Controlling the TransWarp GS is just as easy - we've added a third option to your Control Panel's speed control... TransWarp speed!

Since both TransWarp and TransWarp GS are completely transparent, you won't need pre-boot disks or special software. They're ready to go right out of the package.

Speed = productivity.

Imagine the productivity gains you'll achieve when your programs are running two or three times faster. TransWarp is so powerful, your Apple will make IBM PCs and even ATs look like slowpokes - whether you're planning taxes, plotting charts or playing games.

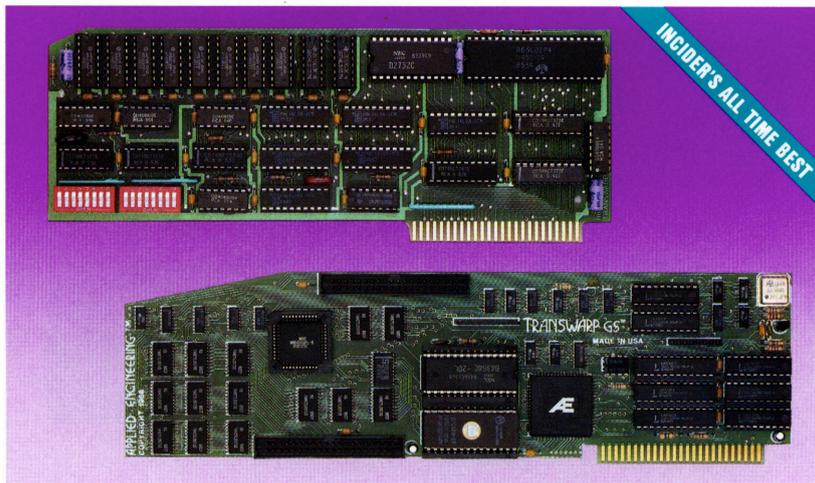
And all along, the only knock on the IIGs has been its lack of speed - a complaint that will vaporize with your first bout at Warp Speed!

Features: TransWarp (compatible with IIe, II+, Laser and Franklin)

- 3.6 MHz 65C02 (compared to Apple II's normal 1 MHz speed)
- Accelerates main and auxiliary memory

Features: TransWarp GS (compatible with IIGs only)

- Approximately 7 MHz (compared to IIGs's 2.8 MHz fast mode)
- Automatically accelerates processing speed
- Designed for slot 3 or 4 - without overriding slot's function
- Speed adjustable from Classic Desk Accessories, Control Panel
- Choose between normal, fast and TransWarp speeds



TransWarp

TransWarp GS

- 256K of ultra-fast RAM
- Totally transparent operation with *all* software
- Plugs into any slot, including the IIe's slot 3
- Gives II+ a total of 128K of bank switched memory
- Gives 48K II+ ability to run ProDOS
- Built-in diagnostics
- 16 bit option - 65C802 available for advanced users
- 5 year warranty - parts and labor
- Proudly made in the U.S.A.

- Built-in ROM chip automatically installs TransWarp option
- Built-in diagnostics
- Compatible with all standard hardware and software
- 1 year warranty - parts and labor
- Proudly made in the U.S.A.

TransWarp Accelerator \$219
TransWarp GS Accelerator \$399

Experience the thrill of computing at Warp Speed.

II+

IIe

IIGs

Laser

Franklin

APPLIED ENGINEERING INTRODUCES THE TRANSWARP™ ACCELERATOR

The Fastest Apple Accelerator Available

TransWarp is the new accelerator card from Applied Engineering. With a TransWarp card in your Apple II, II+, or IIe all software will run up to 3.6 times faster (3.1 times faster is average). TransWarp works with all Apple software including AppleWorks, SuperCalc 3a, Visicalc, and all educational software, graphics and games. TransWarp is compatible with all standard peripheral cards such as Ramworks II and Apple memory cards, Profile and Sider hard disks, 3½" UniDisks, 80 column cards, modems, clock cards, mice and more. You name it, TransWarp accelerates it! Should 16 bit software become available for the Apple, you can get a low cost 16 bit upgrade chip at any time.

Why TransWarp Is Best

The other speedup cards only speedup your Apple's main memory, but TransWarp has 256K of ultra-fast RAM that accelerates your Apple's main memory, ROM memory and auxiliary memory. And since more and more programs are residing in auxiliary memory, TransWarp can run these programs 3 times faster than the competition. TransWarp doesn't use memory caching, which means TransWarp accelerates all software.

It Couldn't Be Easier

Just plug TransWarp into any slot in your Apple II, II+, or IIe, including slot 3 in the IIe. Just turn on your Apple and zoom... off it runs 3½ times faster. Should you ever want to run at normal speed, just press the ESC key while turning on your Apple. No pre-boot disks are needed. In fact, no software comes with TransWarp because none is needed as the TransWarp acceleration is completely transparent.

All for only \$279.

- 3.6 MHz 65C02
- 256K of ultra-fast on board RAM
- Accelerates main and auxiliary memory
- Low power design for cool operation
- Totally transparent operation with all software
- Plugs into any slot including slot 3 of an Apple IIe
- Accelerated 16 bit option available

TransWarp will make you more productive (3½ times more productive, in fact) because your spreadsheets will recalculate faster, and your word processor will move text in the blink of an eye. Accounting, engineering, educational, tax analysis, and even games will all have warp speed.

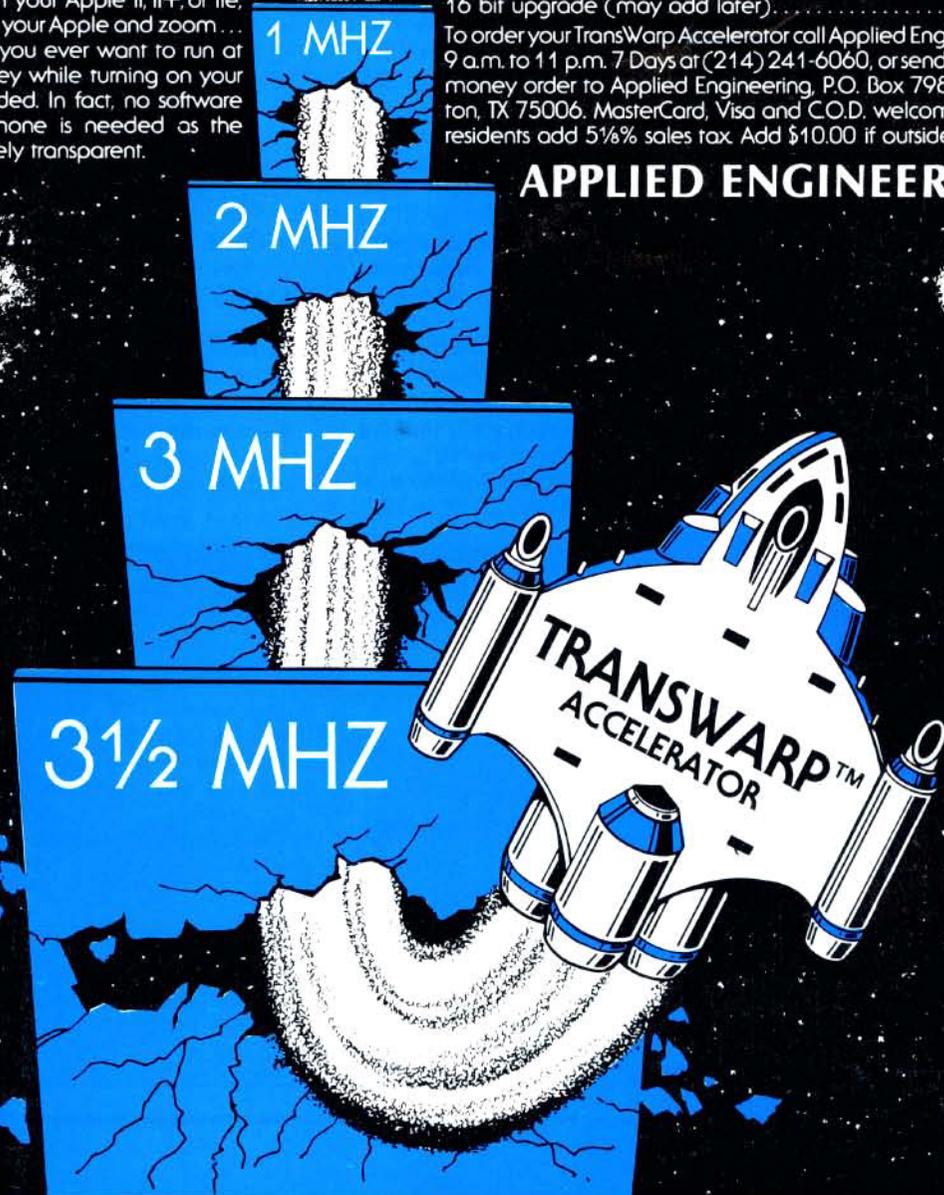
With a TransWarp card in your Apple, you'll easily pass by others using IBM PC's and AT's. In fact, you'll have one of the fastest computers in the galaxy and although TransWarp leaves the competition in the dust, it's still priced far lower, at only \$279.

So the next time you're waiting for your computer to finish, give Applied Engineering a call and we'll beam you a TransWarp accelerator card. With our risk free 15 day money back guarantee, you have nothing to lose, except a lot of wasted time.

TransWarp™ Accelerator \$279
16 bit upgrade (may add later) \$89

To order your TransWarp Accelerator call Applied Engineering, 9 a.m. to 11 p.m. 7 Days at (214) 241-6060, or send check or money order to Applied Engineering, P.O. Box 798, Carrollton, TX 75006. MasterCard, Visa and C.O.D. welcome. Texas residents add 5½% sales tax. Add \$10.00 if outside U.S.A.

APPLIED ENGINEERING



To boldly go at speeds no man has gone before.



With the TransWarp™ accelerator, your IIe™ or II+™ is 40% faster than the IIGs!

Computing at warp speed!

It's an experience you shouldn't miss. And with TransWarp, you won't have to. Because TransWarp will run your IIe or II+ software *3.6 times faster* — that's 40% faster than Apple's IIGs!

No more yawning while your Apple™ slowly rearranges text or calculates spreadsheets. With 256K of ultra-fast RAM, TransWarp speeds up *all* Apple software — including AppleWorks, and all educational software, graphics and games. And it's compatible with all standard peripheral cards (such as RamWorks and Apple memory cards), hard disks, 3½" UniDisks, 80-column cards, modems, clock cards, mice and more! You name it, TransWarp accelerates it. There's even a 16 bit upgrade chip available.



"TransWarp is great! I have replaced all my other accelerators with it!"

*Steve Wozniak, the creator
of Apple Computer*

An important difference.

With TransWarp, software runs up to three times faster than with other cards, since the others can't accelerate programs in auxiliary memory. That's why TransWarp is so much faster than the rest. Nearly all of today's more powerful programs run partially or completely in auxiliary memory: programs like AppleWorks, Pinpoint, Managing Your Money, SuperCalc 3a, BPI and Pascal, to name a few. Why settle for a card that accelerates only part of the memory?

There's one more important difference. Since TransWarp doesn't use memory caching, you get *consistent* high speed performance.

A cinch to use.

Simply plug TransWarp into any slot in your Apple II, II+ or IIe — including slot 3 in the IIe. Instantly you'll be computing

at speeds you only dreamed about before. And should you ever wish to run at normal speed, simply press the ESC key while turning your Apple on.

Since TransWarp is completely transparent, you won't need preboot disks or special software. It's ready to go right out of the package!

Speed = Productivity

Imagine the productivity gains you'll achieve when your programs are running over three times faster. TransWarp is so powerful, your Apple will make IBM PCs™ and even ATs™ look like slowpokes.

- 3.6 MHz 65C02
- 256K of ultra-fast on-board RAM
- Accelerates main *and* auxiliary memory
- Low power consumption for cool operation
- Totally transparent operation with all software
- Plugs into any slot, including slot 3 on the Apple IIe
- Accelerated 16 bit option available
- 5-year warranty

Satisfaction guaranteed!

Give *your* Apple the TransWarp advantage. With our risk-free 15-day money back guarantee, you have nothing to lose but wasted time. Call today!

TransWarp accelerator \$279
16 bit upgrade (may add later) \$89

For fast response:

Call Applied Engineering, 9 a.m. to 11 p.m., 7 days at (214) 241-6060. MasterCard, VISA and C.O.D. welcome. Texas residents add 5½% sales tax. Add \$10.00 if outside U.S.A. Or mail check or money order to Applied Engineering, P.O. Box 798, Carrollton, TX 75006.

AE Applied Engineering
The Apple enhancement experts.

P. O. Box 798, Carrollton, TX 75006 (214) 241-6060