VULCAN™

Vulcan™ high-speed internal hard disks for the IIGS, IIe, II+ and II, combine a wide range of upgradeable sizes with the speed and power lacking in other systems. The result? A quantum leap forward into the Apple II future. Finally, a reliable and affordable way to store massive files while speeding up booting time and saving wear on disk drives.

Live long and prosper with the ultimate Apple II hard disk.

Vulcan

Easy to use.

Our built-in firmware automatically installs itself as a Desk Accessory for write protection and partitioning. The flexible partitioning software can be easily adjusted for any of the operating systems. You don't have to create partitions for systems you're not using. The software we provide lets you easily back up and reformat. Vulcan easily installs under your computer's hood,

70 Watts of power.

Vulcan's power supply was custom-designed by Applied Engineering to provide the power lacking in other systems. It checks in at 70 watts, nearly twice the capacity of competing systems...enough punch to safely handle a motherboard full of expansion cards. Power components are heat-sinked to the aluminum case. To harness all that power. Vulcan contains an ultra-quiet cooling fan.

The only 16 bit hard disk.

For speed, Vulcan incorporates an ultra-fast 16-bit data bus controller, not an 8-bit like others. And we're not talking about rigging the controller card to run 16. Our Vulcan drive is based on a 16 bit AT integrated controller.

Vulcan gives your Apple II an upgradeable combination of useable speed, safe power (it's FCC certified) and practically unlimited size. It's a quantum advance that'll keep you Apple IIing for years to come.

Features:

- AT integrated controller with Ultra fast 16 bit data transfer
- Supports GS/OS, ProDOS 8, DOS 3.3, CPM, and Pascal 1.3
- Sixteen partitions with any four accessible simultaneously
- FCC certified heavy-duty power supply
- 70 full watts w/o fan
- Power components heatsinked to aluminum case
- Externally accessible fuse with spare
- 110/220 VAC, 115/230 VAC, 50/60 Hz
- Integrated fan to extend power supply life
- Cool running - 40 degrees C w/fan, 60 degrees C w/o fan under full load
- Adjustable 5 volts DC

Without question, the fastest.

Bar none, Vulcan is the fastest hard drive on the Apple II market. With system 5.0 you can load AppleWorks GS in less than 14 seconds. Boot GS/OS into the finder in 18 seconds. Verify disks at the astounding rate of more than 180 blocks per second.

replacing the Apple power supply with 70 full watts of power.

Upgradeable flexibility.

Choose a Vulcan from 20, 40, 100 — all the way up to a staggering 200 MEGs. Vulcan is upgradeable, so it can grow as your needs grow. Use virtually any operating system: GS/OS, ProDOS 8, DOS 3.3, CPM or Pascal 1.3. Vulcan supports them all with sixteen partitions (up to four can be accessed simultaneously). Partitioning and backup utilities are included. Choose slot 1, 2, 4, 5, 6 or 7. Even pseudo-slot to slot 7 from elsewhere. Vulcan works on 110/220 VAC, even European 115/230 VAC at 50-60 Hz. And a new caching card option is currently under development.

The Power and the Glory

Vulcan internal hard drives are not only the fastest hard drives on the market, they're the most powerful. By a long shot. Vulcan's built-in power supply was custom-designed by Applied Engineering to provide the power other systems (and your unenhanced Apple II) lack.

Sheer, raw power

A typically enhanced Apple II system (with 3 or 4 expansion cards) needs a heavy duty power supply. Vulcan's power supply is rated at more than 70 watts. *Double* the capacity of other hard drives and double the native capacity of your Apple. The power supply components are heatsinked to the aluminum case, and to harness all that power, Vulcan incorporates an ultra-quiet, flush mounted cooling fan.

Unmatched speed

For speed, Vulcan incorporates an ultra-fast 16-bit data bus controller, not the less expensive 8-bit others use. The result? You'll load AppleWorks GS in less than 14 seconds. Boot GS/OS into the finder in 18 seconds. Verify disks at the astounding rate of more than 180 blocks per second. Vulcan wins any speed test.

Upgradeable Flexibility

Choose a Vulcan from 20, 40, 100 — all the way to a staggering 200 MEGs. Vulcan is upgradeable, so it grows as your needs grow. And we don't mean by daisy-chaining additional hard drives. When you upgrade Vulcan, you pop one out and *replace* it with another.

Use virtually any operating system: GS/OS (v5.0 is included), ProDOS 8, DOS 3.3, CP/AM or Pascal 1.3. Vulcan supports them all with sixteen partitions (access four simultaneously). Choose slot 1, 2, 4, 5, 6 or 7. Even pseudo-slot to slot 7 from elsewhere. Vulcan works on 110/220 VAC, even European 115/230 VAC at 50-60 Hz.

Easy to use

Vulcan simply pops in; replacing the Apple power supply under your computer's hood. Our built-in firmware automatically installs itself as a Desk Accessory for write protection and partitioning. The software we provide lets you easily park heads, back up and reformat.

Vulcan gives your Apple IIGS, IIe, II+ or II an upgradeable combination of useable speed, safe

power (it's FCC certified) and practically unlimited size. It's a powerful and glorious advance into the Apple II future.

Order today!

To order or for more information, see your local dealer or call (214) 241-6060 today, 9 am to 11 pm, 7 days. Or send check or money order to Applied Engineering. MasterCard, VISA and C.O.D. welcome. Texas residents add 7% sales tax. Add $10 outside U.S.A.

Vulcan 20 MEG	$699
Vulcan 40 MEG	$899
Vulcan 100 MEG	$1795
Vulcan 120-200 MEG	CALL

ÆE APPLIED ENGINEERING®

The Apple enhancement experts.

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