

SPIRIT™
TECHNOLOGY



**Superior
Expansion
Hardware**

for

COMMODORE
AMIGA™

SUPERIOR EXPANSION HARDWARE

Spirit Technology is in its third year of producing fine, professional quality hardware exclusively for Amiga. Tens of thousands of Spirit RAM expansion boards are in use throughout the world. There are now seven models of Spirit/Amiga RAM Memory Expansions, ranging from 512K to 8 MB.

Other products introduced since our first RAM board include: The most versatile and the only professional quality MIDI interface available for Amiga; Hard Drive Interfaces that utilize time-tested, high performance ST-506 technology.

A development goal of ours has been to produce a mid-priced professional quality video Genlock. It is now a reality, and most likely just the beginning of our video hardware line.

INSTEAD OF RE-INVENTING THE WHEEL....

Over the years, nearly every expansion board conceivable has been developed for the XT/AT bus. To take advantage of all this existing technology, we've interfaced the XT/AT bus to the Amiga 86-pin expansion port. This, our newest and most ambitious project to date, is a hardware expansion system for the A500 and A1000 that will provide access to these cost-effective, time-tested accessories.

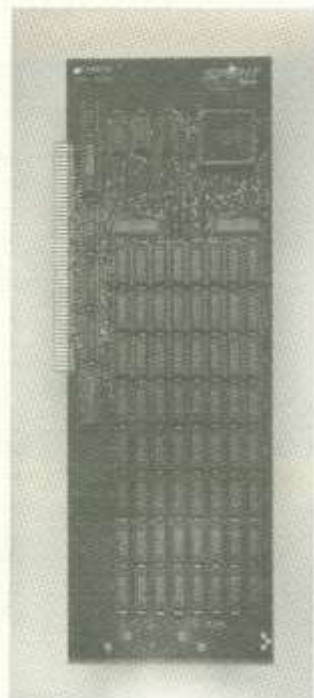
Spirit Technology...
committed to Amiga!

NEW! OCTABYTE™ 8MB RAM EXPANSION

A2000 or AX-S INTERNAL PLUG-IN BOARD

FEATURES

- Utilizes 1.0Mbit x 1 DRAMS 150ns or faster
- Fully socketed to expand from 0K to 2.0MB, 4.0MB and 8.0MB.
- Full autoconfig with RAM on/off software control.
- Adds up to a full 8MB FASTRAM to existing Amiga RAM.
- Finest quality 4-layer, low noise PC board.
- Unique, low power drain, refresh circuitry.
- All data and address lines fully buffered.
- Includes software support disk with RAM test, diagnostics and useful PD programs.



NEW! X-RAM™ 8MB EXTERNAL EXPANSION RAM

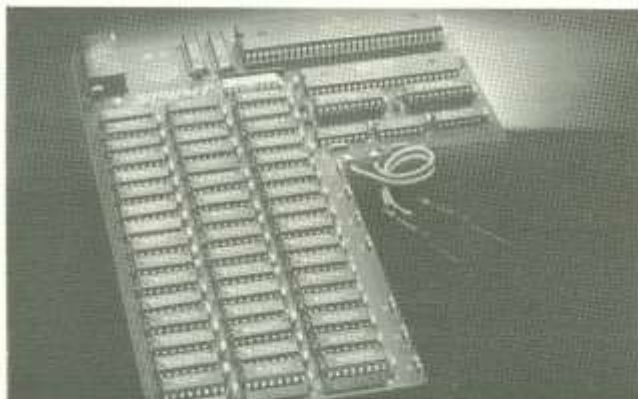
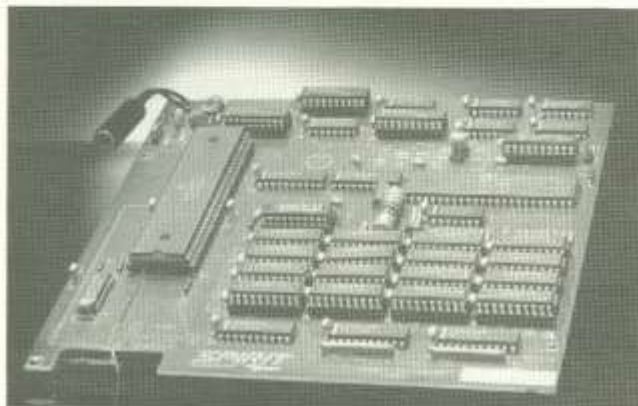
A500 AND A1000 EXTERNAL PLUG-IN BOARD

FEATURES

- All features and electrical specifications are the same as OCTABYTE.
- Enclosed in Amiga matching, low profile metal chassis that plugs into the 86-pin expansion port.
- Accepts external DC power supply, 110/60 or 220/50.

A500 and A1000 INTERNAL RAM MEMORY EXPANSION

ADD SPIRIT INTERNAL
RAM AND LEAVE YOUR
EXPANSION PORT *FREE!*



Spirit internal memory boards have been specially designed to install inside your A500 or A1000 without soldering or modification. The quality four-layer, low noise boards plug into the motherboard 68000 socket, under the radiation shield in the ventilation air flow. All boards are fully socketed for convenient expansion from 0K.

These boards may safely use Amiga power.

A special software support disk for each model of memory board is included which contains RAM test diagnostics and useful PD programs.

A500 and A1000 INTERNAL RAM MEMORY EXPANSION

A1000 1.5MB RAM EXPANSION

Model IN1000

FEATURES

- Utilizes 256Kx1 DRAMS, 150ns or faster.
- Expandable from 0K to 0.5MB, 1.0MB and 1.5MB.
- Includes battery backed clock/calendar.
- Full 1.5MB autoconfig with RAM on/off software control.

A500 2MB RAM EXPANSION

The "SIN Board," Model SIN 500

FEATURES

- Utilizes 1.0Mbit (256Kx4) DRAMS, 150ns or faster.
- Expandable from 0K to 0.5MB, 1.0MB and 2.0MB.
- Full memory autoconfig with RAM on/off.
- Adds up to a full 2.0MB FASTRAM to existing Amiga RAM.
- Motorola 68000 included on board.
- Optional external power supply.

The 2-megabyte SIN board includes an on board power socket for an optional external power supply, required only if the A500 power supply budget is exceeded by use of several other accessories (eg. hard drives, modems, etc.).

A500 1.5MB RAM EXPANSION

Model IN500

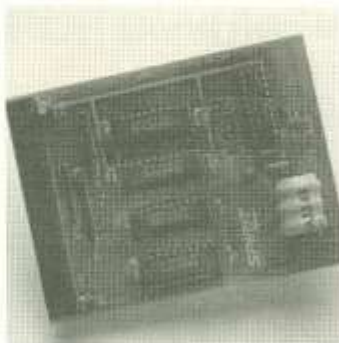
FEATURES

- Utilizes 256Kx1 DRAMS, 150ns or faster.
- Expandable from 0K to 0.5MB, 1.0MB and 1.5MB.
- Operational modes: Autoconfig with RAM on/off or addmem. Addmem adds a full 1.5MB FASTRAM to existing Amiga RAM.
- Optional plug-in battery backed clock/calendar.

NEW! TRAPPER™, A500 512K RAM EXPANSION ("Trap-Door Clone") Model SC501

FEATURES

- Two 0K socketed versions available:
 - 1) Plug-in 256Kx1 DRAMS (16 required).
 - 2) Plug-in 256Kx4 DRAMS (4 required).
- Both versions also available populated.
- Includes battery backed clock/calendar.
- Clock and calendar automatically recognized at power up.
- Easy plug-in installation into the "Trap-Door" expansion slot.
- No installation routines or drivers needed.



NEW! A500 and A1000 A-MAX 1.0MB CONTIGUOUS RAM

Get maximum performance from A-MAX emulator software by adding contiguous fast memory to Amiga's chip memory. The contiguous RAM board is a factory modification of Spirit's IN500 or IN1000 Internal Memory Expansion boards. A software switch converts the contiguous RAM to regular fast RAM (AmigaDOS) for dual purpose use.

NEW! POW-R 200™, 200W POWER SUPPLY Power For All Reasons...

The POW-R 200™ can safely handle an A500 plus, up to four other devices! (eg. 2 Hard Drives, 1 Floppy, 1 Modem.)

FEATURES:

- A500 and 4 additional plugs & cables supplied.
- Fan cooled, continuous 200 watts.
- Selectable 110VAC/60Hz or 220VAC/50Hz input.
- Switched 2 Amp AC utility outlet.
- DC Out: +5V/20A, +12V/8A, -5V/0.4A, -12V/0.4A.

Introducing.... INTERLOK™ ... a Video "Genlock"

Spirit Technology Has Now Expanded Its Commitment To Amiga Hardware To Include VIDEO!

Users of the Amiga computer know that it is the preeminent world design that bridges the very different technologies of "computer" graphics and "video" graphics...at a price that is incomparable.

INTERLOK includes advanced, reliable circuitry that locks your Amiga scan rate to NTSC or PAL broadcast synchronizing standards...and, very importantly, is also able to lock to sync pulses that output directly from typical, low cost VCR's. This is critical to the "desk-top video publisher" to achieve compatibility with all video and television studios.

INTERLOK is a professional quality design, and yet, mid-priced to enable excellent, affordable technical video production or post-production.

SPECIFICATIONS

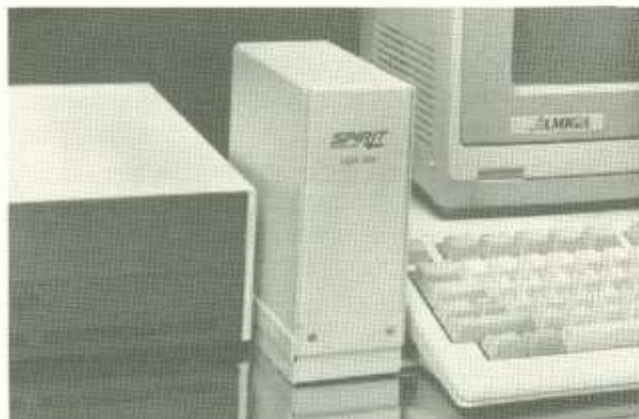
Video Input: BNC, 1.0vpp composite or black burst/ 75ohm.
Vid. PGM. Output (2): BNC, 1.0vpp, <1.0% diff. gain, <0.2% diff phase / 75ohm.
R-G-B Outputs: BNC, 0.7vpp, elliptical filtered, 4MHz 0db, 7MHz 50db / 75ohm.
Key Output: BNC, 10vpp nominal (Amiga Color 0).
Amiga Interface: BD-23S cable & connector (to "RGB Video").
Preview Out (Amiga Monitor): DB-23P chassis connector (to "1080" monitor).
Remote Mixer Control: DIN-5P connector & Cable (3' std., up to 20' available).
Slope panel module with slide control fader and PGM on/off.
Colorlock and Horizontal Phase: Adjustable to source video.
NTSC Internal Encoder vs. SMPTE Standards (Comparable for PAL): Chroma Phase $\pm 2^\circ$ max.; Chrominance Level ± 2 IRE Units max.; Luminance Levels ± 2 IRE Units max.



ST-506 HARD DRIVE INTERFACES for A500, A1000 and A2000

DRIVE A HARD BARGAIN!

Spirit Hard Drive Interfaces adapt to all ST-506 hard drives, MFM or RLL format. Interface cards have 62-pin XT bus socket to host half-size ST-506 controller cards. Systems include 3.5" software support disk with: Custom Driver software compatible to FFS 1.3 and AmigaDOS 1.2; Low-Level Formatter; Disk verify; Bad track re-mapping; Head park utility.



A500 and A1000 HARD DRIVE INTERFACE

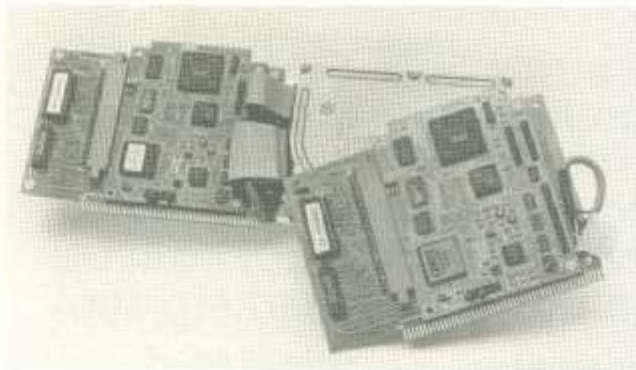
FEATURES

- Enclosed in Amiga-matching metal chassis with 86-pin expansion port passthru.
- AmigaDOS 1.3 Autoboot socket for optional custom EPROM/PAL kit permits automatic booting from the hard drive.
- Uses external power from hard drive chassis power supply.
- Supports 2, ST-506 hard drives, 20 to 80MB typical.

ST-506 HARD DRIVE INTERFACES for A500, A1000 and A2000

NEW!

A2000 SLOT MACHINE™ ST-506 HARD DRIVE INTERFACE



FEATURES

- Simple ZORRO slot plug-in installation.
- Includes AmigaDOS 1.3 Autoboot EPROM/PAL to permit automatic booting from the hard drive.
- Hard Card installation includes steel mounting plate to host 3.5", ST-506 hard drive. Drive may be reverse mounted to avoid other PC cards.
- Alternately, 3.5" or 5.25" drives can be mounted in standard bays with the interface in ZORRO slot.
- Supports 2, ST-506 hard drives, 20 to 80MB typical.

MIDI-STAR™, The Professional MIDI Interface for all Amigas



Spirit's MIDI-STAR with multiple ports, switch control and LED status indicators is the most complete and versatile MIDI console in the Amiga marketplace.

FEATURES

- 2 MIDI IN's with switch control and LED status indicators.
- 6 MIDI OUT/OFF/THRU's each with switch control and multi-color LED status confirmation.
- Amiga RS-232 serial interface with passthru.
- 2 separate selectable operational modes:
 - Mode 1: Any IN TO 6 OUT/OFF/THRU's
 - Mode 2: First IN to 3 OUT/OFF/THRU's
Second IN TO 3 OUT/OFF/THRU's
- Durable, heavy metal chassis...special sloped console design for easy operator access to switches and LEDs.
- Compatible to all computers that software generate MIDI via the RS-232 C serial port.

SPIRIT TECHNOLOGY CORPORATION

CORPORATE HEADQUARTERS

220 West 2950 South
Salt Lake City, Utah 84115
Phone: (801) 485-4233
FAX: (801) 485-6957

USA SALES

8345 East 5th Place
Tulsa, Oklahoma 74112
Phone: (918) 834-2509

SPIRIT TECHNOLOGY, CANADA

2133 Royal Windsor Drive, Unit #47
Mississauga, Ontario L5J 1K5
Phone: (416) 823-4821

UNITED KINGDOM

Phone: 44-253-734218
FAX: 44-253-714141

FRANCE

Phone: 33-56-37-4378
FAX: 33-56-04-0895

AUSTRALIA

Phone: 61-3-369-7020
FAX: 61-3-369-7020

AMIGA is a Registered Trademark of Commodore-Amiga, Inc.; AmigaDOS is a Trademark of Commodore-Amiga, Inc.; A-MAX is a Trademark of ReadySoft Inc.; AX-S, OCTABYTE, INTERLOK, SLOT MACHINE, MIDI-STAR, X-RAM, TRAPPER & POW-R 200 are Trademarks of Spirit Technology Corp.

GET THE SPIRIT

EXPANSION HARDWARE FOR A500/A1000

Internal RAM Memories
ST-506 Hard Drive Interfaces
MIDI Interface

NEW!



Expansion System for Amiga

NEW!

OCTABYTE™

8 MB RAM / A2000

INTERLOK™

Video Genlock

SLOT MACHINE™

Hard Card / A2000

TRAPPER

512K RAM / A500

POW-R 200™

200W Power Supply

X-RAM™

8 MB External
A500/A1000 RAM

ORDER AND INFORMATION TOLL FREE

1-800-433-7572