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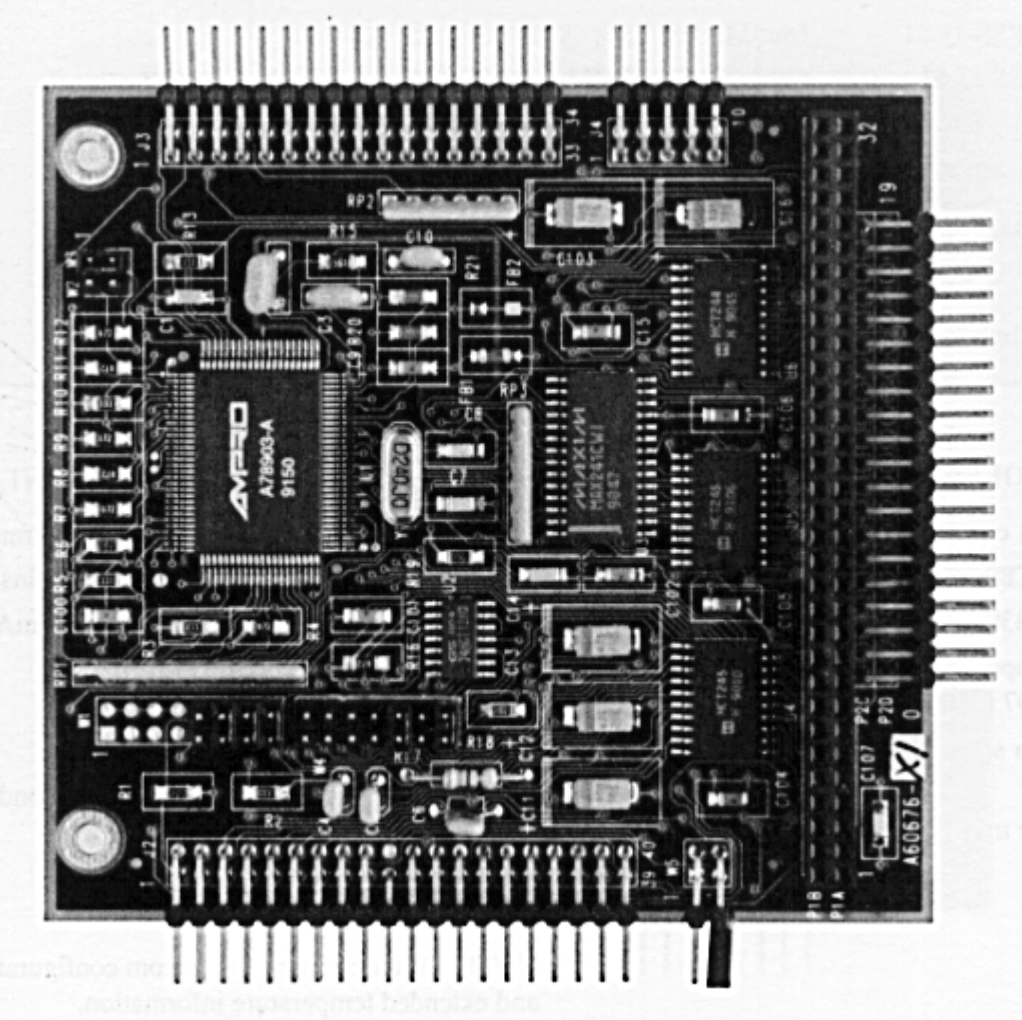
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MiniModule/FSI

Floppy, serial, and IDE expansion for CoreModule applications



PC/AT-compatible floppy drive controller

PC/AT-compatible RS232C serial port

IDE interface for hard disk expansion

Stacks directly with Ampro CoreModule products and other PC/104 modules

Ultra compact PC/104 form-factor: 3.6 x 3.8 inches (90 x 96 mm)

Low power, rugged, and reliable

The MiniModule/FSI expansion module is a compact, low power, multifunction unit intended to stack directly with Ampro's AT-compatible CoreModule CPUs and other PC/104 modules via its stackthrough bus header.

The MiniModule/FSI provides three key

interfaces for expanding CoreModule-based systems: a floppy drive controller, a serial port, and an IDE drive interface.

Floppy Interface
Support for one or two 360K, 720K, 1.2M, or 1.44M floppy disk drives is provided through the fully AT-compatible floppy disk controller.

Serial Port
The module's AT-compatible RS232C serial port can be configured as either COM2 or COM3 (COM1 already exists on CoreModule CPUs). Jumpers permit selection of a desired interrupt request. Because of its AT compatibility, the MiniModule/FSI serial port can be operated under any of the many programs written to work with standard PC and PC/AT serial ports.

The MiniModule/FSI serial port also supports a unique interrupt sharing scheme. This option allows multiple ports on certain modules (e.g., the MiniModule/SSP) to share a single interrupt request on the PC bus (Note: this requires customized software).

IDE Interface
The module's IDE interface can connect to one or two "Integrated Device Electronics" (IDE) disk drives. IDE drives are intelligent disk drives that contain an embedded AT bus hard disk controller. Because of the compatibility IDE drives provide with the standard AT bus hard disk controller, virtually all operating systems, drivers, utilities, and applications can be used without modification.

SPECIFICATIONS

FLOPPY CONTROLLER

Standard AT-compatible floppy controller (NEC765 equivalent)

Supports one or two drives

Supports all standard AT formats: 360K, 720K, 1.2M, and 1.44M bytes

I/O address: 3F0-3F7h

Interrupt: IRQ6

DMA: channel 2

This interface may be disabled via a jumper

SERIAL PORT

Standard AT-compatible RS232C COM port

(82C50 equivalent)

 Full handshaking support

 Software-controlled baud rates

 Onboard +9V DC generation

 I/O address: jumper selectable as COM2 (2F8-2FFh) or COM3 (3E8-3EFh)

 Interrupt: jumper selectable to IRQ2-IRQ7

 DMA: none used

 Ampro-style interrupt sharing option

 This interface may be disabled via a jumper

IDE INTERFACE

 Drives supported: one or two IDE hard disk drives

 Cable to drive: 40-conductor cable, 2 ft. maximum length

 I/O address: 1F0-1F7h and 3F6-3F7h

 Interrupt: IRQ14

 DMA: none used

 This interface may be disabled via a jumper

MECHANICAL AND ENVIRONMENTAL

 Size: 3.6 x 3.8 x 0.6* in. (90 x 96 x 15 mm)

*Add 0.3 in. (8 mm) for stackthrough pins

 Power requirements (typical): +5V +/-5% at 50 mA (+9V for RS232C generated onboard)

 Operating environment:

- 0Ą to +70ĄC temperature

- 5% to 95% relative humidity, non condensing

 Storage temperature: -55Ą to +85ĄC

 Weight: 2.2 oz. (63 gm)

ORDERING INFORMATION

When ordering, refer to the following model numbers:

 MMX-FSI-K-52 Development Kit, MiniModule/FSI, stackthrough bus

 MMX-FSI-Q-52 MiniModule/FSI, stackthrough bus (Quantity Orders)

 CBL-FSI-Q-01 Cable set for MiniModule/FSI (floppy, serial, and IDE drive cables)

The MiniModule/FSI is compatible with AT bus CoreModule products only, and is, therefore,

not usable with the CoreModule/XT. Development Kits include: MiniModule/FSI with stackthrough bus, 40-conductor AT bus cable, cable set (floppy, serial, and IDE), and technical manual. Quantity orders include only the module and the 40-conductor AT bus cable.

Please contact your local Ampro representative or Ampro Sales Administration for ordering information.

NOTE: The MiniModule/FSI is available in stackthrough bus version only.

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