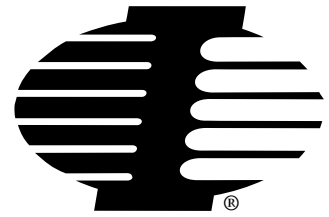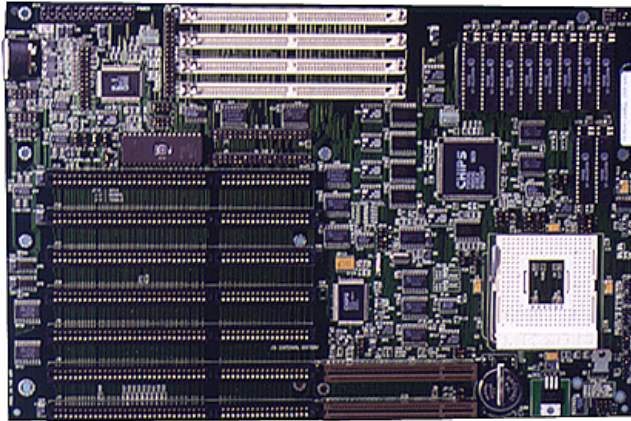# Model 486XMBS Series

486 ISA/VESA Motherboard

FEATURES

- *80486SX To 80486DX4 and P24T Support*
- *On-board Drive Controllers*
- *256MB RAM Maximum On-board*
- *256k External Cache*
- *Made in USA*

DESCRIPTION

The unique design of the 486MBS series motherboard has the awesome versatility of seven industrial grade motherboards in one. Start out with an 80486SX processor. Should your application need more processing power you may easily switch the processor to a higher rated 80486 family processor including the 80486DX4 at 100MHz and the Pentium Overdrive at 83MHz. The Zero Insertion Force socket and the easily changed jumper configuration permit the field upgrade of the motherboard as you need it.

The board design offers expansion slots that accept full length ISA adapter cards as well as two VESA expansion slots. The on-board controllers include a dual channel EIDE controller supporting up to four EIDE devices, two masters with one slave each. The floppy drive controller offers support for 360K through 2.88MB drive devices as well as QIC tape drives. The serial ports are 16550 compatible offering buffered input and output. The parallel port is a bi-directional, Centronics compatible port supporting printers, software "dongle" security keys and external tape drive devices. Also included on the board is a PS/2 compatible mouse port. Cables to the rear panel are provided for the mouse port, the two serial ports and the parallel port.

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Processors Supported

80486SX, 80486DX, 80486DX2, 80496DX4,
Pentium Overdrive (P24T)
Zero Insertion Force (ZIF) Socket

Processor Clock Rate

33MHz External, 1:1, 2:1, 2.5:1 or 3:1 internal
dependent on processor selected.

BIOS

AMI WinBIOS
Flash upgradeable

ISA Bus Clock Rate

8.3MHz

VL Bus Clock Rate

33MHz

Chip Set

Chips and Technology

Memory Capacity

256MB Maximum on-board

SIMM Support

4 Banks, 1 socket each
PS/2 SIMMS, 72 pin
Fast Page Mode, 60nS
512Kx36, 1Mx36, 2Mx36, 4Mx36, 8Mx36,
16Mx36

Cache Memory

256K external cache memory socketed

EIDE Disk Controller

Dual Channel, LBA Mode, PIO Mode 4 support
One master per channel, one slave per channel

Floppy Drive Controller

2 drives supported, 360K through 2.88MB

Serial Ports

2 16550 compatible ports
Cabling to rear panel included

Parallel Port

EPP. EPC enhanced, bi-directional, Centronics
compatible
Supports software "dongles" and external drive
devices

Mouse Port

PS/2 compatible, mini-DIN cable to rear panel
included

Keyboard Port

Standard AT DIN connector

CMOS Battery

On-board equivalent to 146818 RTC

Expansion Slots

5 ISA, 2 ISA/VESA
2 ISA and ISA/VESA will support full length
adapter cards

Board Style

Baby AT

Size

8.6" x 13"
218.4mm x 330.2mm

Operating Environment

0 to 55ºC
5 to 92% R.H.N.C. @ 36ºC

Storage Environment

-40º to +70ºC

ORDERING GUIDE

Model 486SXMBS33

80486SX/33 processor, 256k cache, cables

Model 4862MBS66

80486DX2/66 processor, 256k cache. cables

Model 4864MBS100

80486DX4/100 processor, 256k cache, cables

Model SPN1-486

Processor cooling fan - required for environments
over 40ºC

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