



## 486MBS 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.

#### Ordering Guide

486SXMBS33	80486SX/33 processor, 256k cache, cables
4862MBS66	80486DX2/66 processor, 256k cache, cables
4864MBS100	80486DX4/100 processor, 256k cache, cables
SPN1-486	Processor cooling fan - required for environments over 40°C



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### Specifications

<b>Processors supported</b>	80486SX, 80486DX, 80486DX2, 80496DX4, Pentium overdrive (P24T) Zero insertion force (ZIF) socket
<b>Processor clock rate</b>	33MHz External, 1:1, 2:1, 2.5:1 or 3:1 internal dependent on processor selected.
<b>BIOS</b>	AMI WinBIOS Flash upgradeable
<b>ISA Bus clock rate</b>	8.3MHz
<b>VL Bus clock rate</b>	33MHz
<b>Chip set</b>	Chips and Technology
<b>Memory capacity</b>	256MB Maximum on-board
<b>SIMM Support</b>	4 Banks, 1 socket each PS/2 SIMMS, 72 pin Fast Page Mode, 60nS 512Kx36, 1Mx36, 2Mx36, 4Mx36, 8Mx36, 16Mx36
<b>Cache memory</b>	256K external cache memory socketed
<b>EIDE Disk controller</b>	Dual Channel, LBA Mode, PIO Mode 4 support One master per channel, one slave per channel
<b>Floppy drive controller</b>	2 drives supported, 360K through 2.88MB
<b>Serial ports</b>	2 16550 compatible ports Cabling to rear panel included
<b>Parallel port</b>	EPP. EPC enhanced, bi-directional, Centronics compatible Supports software “dongles” and external drive devices
<b>Mouse port</b>	PS/2 compatible, mini-DIN cable to rear panel included
<b>Keyboard port</b>	Standard AT DIN connector
<b>CMOS Battery</b>	On-board equivalent to 146818 RTC
<b>Expansion slots</b>	5 ISA, 2 ISA/VESA, 2 ISA and ISA/VESA will support full length adapter cards
<b>Board style</b>	Baby AT
<b>Size</b>	8.6” x 13” 218.4mm x 330.2mm
<b>Operating environment</b>	0 to 55°C 5 to 92% R.H.N.C. @ 36°C
<b>Storage environment</b>	-40° to +70°C



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