



CE

**586MBH**



CE

**586MBHP**

### Description

The 586MBH Series motherboards are designed to be "workhorses" for industrial applications. Most of today's motherboards have ignored the world of ISA based data acquisition and motion control and communication cards. PCI slots have replaced ISA without the feature cards being updated for PCI bus. After all, how fast does a thermocouple change? Most industrial monitoring and control applications need processing power but do not need PCI bus performance for the A/D and D/A and digital I/O products. These motherboards include seven ISA, 16-bit expansion slots for industrial application feature cards. Four of the expansion slots are full length and three are half to two-thirds length. The on-board dual channel EIDE controller supports up to four EIDE fixed disk drives - two masters with one slave each. The AMI BIOS will automatically detect and install fixed drives minimizing system integration and installation problems. The floppy controller will handle two drives up to 2.88MB capacity. In addition, there are two, 16550 compatible serial ports and an enhanced parallel printer port which can be configured in the BIOS setup for address and enabling. The serial and printer port cables are included for attaching to the chassis rear panel. Additionally there is an on-board PS/2 mouse port and the internal cabling to a mini-DIN connector is included. The port is enabled or disabled by jumper selection on the board. The 586MBHP Series motherboards share all the same features as the 586MBH Series motherboards except for the expansion slots. The 586MBHP Series incorporates three PCI slots, two ISA full length slots and a shared slot which can be used for either ISA or PCI expansion boards. The board supports Pentium processors from 100 through 166MHz by simple jumper changes.



## 586MBHxxx Series

### Pentium Industrial Motherboard

#### Features

- 90MHz - 200MHz Pentium® processors
- 256K Cache RAM
- On-board EIDE, Floppy, PS/2 Mouse
- Baby AT form factor
- 7 ISA Expansion slots or 2 ISA, 3 PCI, 1 Shared ISA/PCI slot
- Made in USA

# 2

## 586MBH Series

### *Ordering Guide*

<b>586MBH100</b>	Pentium 100MHz Processor, 256k Cache
<b>586MBH133</b>	Pentium 133MHz Processor, 256k Cache
<b>586MBH166</b>	Pentium 166MHz Processor, 256k Cache

### *Specifications*

<b>Processors Supported</b>	Intel Pentium
<b>Processor Clock Rate</b>	75MHz, 90MHz, 100MHz, 120MHz, 133MHz, 150MHz, 166MHz
<b>BIOS</b>	AMI Flash BIOS with Auto Drive Detect
<b>Chip Set</b>	Intel Triton 430FX
<b>ISA Bus Clock Rate</b>	8.3MHz
<b>Memory Capacity</b>	128MB Maximum On-board
<b>SIMM Support</b>	2 Banks, 2 Sockets Each, 72-pin, Interleaved Supports x36 or x32 SIMMs Supports 256k x 36(1MB), 256k x 36(2MB), 1M x 36(4MB), 2M x 36(8MB), 4M x 36(16MB), and 8M x 36(32MB) SIMMs
<b>Memory Speed Required</b>	60nS Recommended for 0 Wait States
<b>Cache Memory</b>	256K Write-back Cache
<b>EIDE Disk Controller</b>	4 Devices Supported 2 Master, 1 Slave per Master
<b>Floppy Controller</b>	2 Floppy Drives to 2.88MB Supported
<b>Serial Ports</b>	2 16550 Compatible, Internal Cables Included
<b>Parallel Port</b>	1 Centronics Compatible, Internal Cable Included Enhanced, ECP and EPP Support
<b>Keyboard Port</b>	AT Style DIN
<b>Mouse Port</b>	PS/2 Compatible, Internal Cable to 6-pin Mini-DIN Included
<b>CMOS Battery</b>	RTC with Lithium Battery

## ***Specifications (cont.)***

**Keyboard Port**

AT Style DIN

**Mouse Port**

PS/2 Compatible, Internal Cable to 6-pin Mini-DIN Included

**CMOS Battery**

RTC with Lithium Battery

**Expansion Slots**

**586MBH** - 7 ISA, 16 bit

Heat sinks, cooling fans and voltage regulators may affect the use of the expansion slots for some feature cards.

**586MBHP** - 3 PCI, 2 ISA, 1 shared for either PCI or ISA.

**Board Type**

Baby-AT

**Size**

8.6" x 13" (218 x 330mm)

**Operating Environment**

Temperature: 0 to 55°C

Humidity: 5 to 92% RHNC @ 36°C

CPU Cooling Fan Included

**Storage Environment**

Temperature: -40 to +70°C

3

*586MBH Series*



6260 Sequence Drive  
San Diego, CA 92121  
800 523-2320  
fax 858 677-0895  
[www.icsadvent.com](http://www.icsadvent.com)

Document 1349 01/12/00