
Chapter 1

Overview

The AP5VM is a high-performance Pentium®-based system board that utilizes the PCI/ISA architecture. It integrates the **Intel 82430VX PCIsset**, a **super I/O controller**, and a PCI mode 4 enhanced IDE controller with bus master support to enhance system performance. It has **four single in-line memory module (SIMM)** sockets and **one Dual in-line memory module (DIMM)** that allow system memory expansion up to a maximum of **128MB**. It also supports **256KB and 512KB pipelined-burst second-level cache onboard**.

One main feature of AP5VM is the green power-management function that extends energy conservation from system components to display monitor. It complies with the power-saving standards of the U.S. Environmental Protection Agency (EPA) Energy Star program.

The AP5VM board measures 220 mm x 280 mm.

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1.1 Specifications

Form Factor	Baby AT
Board Size	220 mm x 280 mm
CPU	Intel Pentium Processor P54C, PP/MT (P55C), AMD K5/K6, Cyrix 6x86/6x86MX and IDT C6.
System Memory	FPM (Fast Page Mode) or EDO (Extended Data Output) 72-pin SIMM x4, and SDRAM 168-pin x1 maximum 128MB.
Second-level Cache	256KB or 512KB pipelined-burst cache onboard
Chipset	Intel 82430VX PCIset
Expansion Slots	ISA x3 and PCI x4
Serial Port	Two serial ports UART 16C550 compatible
Parallel Port	One parallel port supports standard parallel port (SPP), enhanced parallel port (EPP) or extended capabilities port (ECP).
Floppy Interface	Floppy interface supports 3.5 inches drives with 720KB, 1.44MB or 2.88MB format or 5.25 inches drives with 360KB, 1.2MB format
IDE Interface	Dual-channel IDE interface support maximum 4 IDE hard disks or CDROM, mode 4 and bus master hard disk drives are also supported.
USB Interface	Two USB ports supported by USB bracket, the BIOS also supports USB driver to simulate legacy keyboard.
PS/2 Mouse	PS/2 mouse supported by PS/2 mouse bracket.
Keyboard	Default AT compatible keyboard, mini-DIN PS/2 keyboard connector is optional.
BIOS	AMI Plug-and-Play Flash ROM BIOS
RTC	Dallas DS12887A and DS12B887 compatible