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# *Chapter 1*

## Overview

The AP53 is a high-performance Pentium<sup>®</sup>-based system board that utilizes the PCI/ISA architecture. It integrates the **Intel 430HX 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 that allow system memory expansion up to a maximum of **512MB**. It also supports **256KB and 512KB pipelined-burst second-level cache onboard**

One main feature of AP53 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 AP53 board measures 220 mm x 250 mm.

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### 1.1 Specifications

<b>Form Factor</b>	Baby AT
<b>Board Size</b>	220 mm x 250 mm
<b>CPU</b>	Intel Pentium Processor P54C, PP/MT (P55C), AMD K5 and Cyrix 6x86
<b>System Memory</b>	FPM (Fast Page Mode) or EDO (Extended Data Output) 72-pin SIMM x4, maximum 512MB.
<b>Second-level Cache</b>	256KB or 512KB pipelined-burst cache onboard
<b>Chipset</b>	Intel 430HX PCIset
<b>Expansion Slots</b>	ISA x3 and PCI x4
<b>Serial Port</b>	Two serial ports UART 16C550 compatible
<b>Parallel Port</b>	One parallel port supports standard parallel port (SPP), enhanced parallel port (EPP) or extended capabilities port (ECP).
<b>Floppy Interface</b>	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
<b>IDE Interface</b>	Dual-channel IDE interface support maximum 4 IDE hard disks or CDROM, mode 4 and bus master hard disk drives are also supported.
<b>USB Interface</b>	Two USB ports supported by USB bracket, the BIOS also supports USB driver to simulate legacy keyboard.
<b>PS/2 Mouse</b>	PS/2 mouse supported by PS/2 mouse bracket.
<b>Keyboard</b>	Default AT compatible keyboard, mini-DIN PS/2 keyboard connector is optional.
<b>BIOS</b>	AMI Plug-and-Play Flash ROM BIOS
<b>RTC &amp; Battery</b>	Dallas DS12887A or DS12B887 compatible