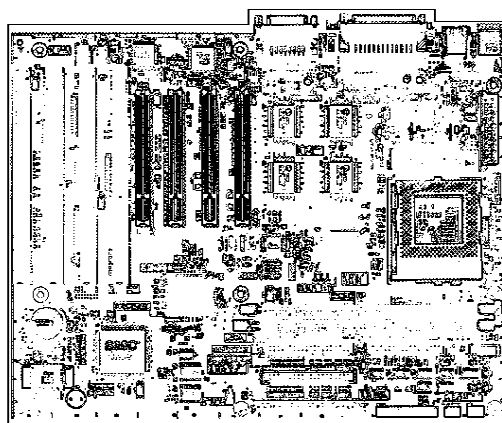


# Thunderbolt *System Board*

## **PENTIUM PROCESSOR PCI LOCAL BUS SERIES**

- *Designed for ATX Form Factor*
- *Features SDRAM Memory and USB Support*
- *Supports Intel Pentium and AMD Processors*
- *Based on Intel 430TX PCIsct*



### *The most Advanced Pentium High-Performance Desktop Solution*

The Thunderbolt system board delivers the latest enhancement in system board technology for the most aggressive desktops. Based on the latest Intel 430TX core logic PCIsct, Thunderbolt supports the latest advanced processor architecture with MMX™ Technology, as well as support of Universal Serial Bus (USB), Ultra DMA/33 IDE hard drive protocol (up to 33Mbytes/sec transfer rate), concurrent PCI, and Advanced Configuration Power Interface (ACPI). Designed to fit into the ATX form factor, the Thunderbolt can support the Fast Page Mode (FPM), Enhanced Data Out (EDO), and Synchronous Dynamic RAM (SDRAM) memory technologies. The board provides exceptional performance with support of Intel's Pentium and Pentium with MMX™, and AMD's AMD-K5™ and AMD-K6™ processors. In addition, Thunderbolt features optional integrated 16-bit sound with wavetable synthesis and LM78 Microprocessor System Hardware Monitor device.

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# Thunderbolt System Board

## Specifications:

### Processors:

- Single ZIF socket 7
- Intel Pentium™
- Intel Pentium™ Processor w/MMX™
- AMD-K5™ PR90 to PR166MHz
- AMD-K6™ 166 to 233MHz

### Hardware Management (Manufacturing option):

- Microprocessor System Hardware Monitor LM78
- DMTF-compliant DMI/SMI support

### Expansion:

- Four 32-bit PCI slots
- Four 16-bit ISA slots
- One is a shared PCI/ISA slot

### CPU Clock Select:

- Support for 60 and 66MHz CPU bus speed configurations

### Chipset:

- Intel 430TX PCI chipset
- Intel PIIX 4
- SMC FDC37C67s/93x Ultra I/O chip

### Memory:

- Two 3.3V unbuffered 64-bit 168-pin DIMM sockets
- Maximum memory: 256MB
- Supports FPM, EDO and SDRAM memory

### Cache:

- 256K or 512K Pipelined Burst L2 cache soldered onboard

### PCI (Local Bus) IDE:

- Ultra DMA/33 IDE
- Mode 4 Enhanced IDE with Bus Mastering
- Two 40-pin IDE connectors (Primary and Secondary IDE)
- Auto detection of add-in IDE board
- Multiple sector transfer support

### Floppy:

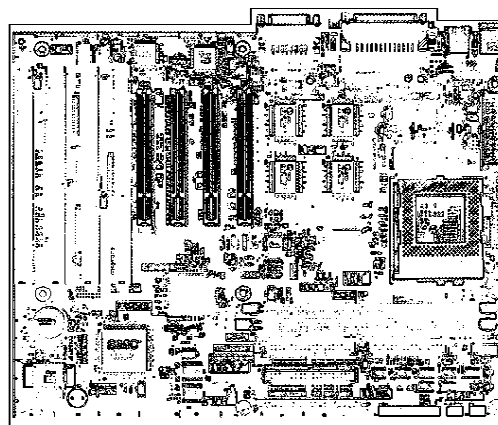
- Supports 360K to 2.88MB formats
- Auto detection of add-in floppy controllers

### Communication Ports:

- Two 9-pin 16550 compatible serial ports
- One 25-pin parallel port (ECP, EPP)
- IrDA compliant IR header
- Two USB ports

### Keyboard and Mouse:

- PS/2 style keyboard & mouse connectors



## PENTIUM PROCESSOR PCI LOCAL BUS SERIES

### Sound (Manufacturing Option):

- Yamaha OPL3 and OPL4
- Sound Blaster™ Compatible 16-bit Stereo
- Line-In, Line-Out, MIC, and Game/MIDI ports
- 4-pin CD-ROM audio header
- 4-pin modem audio header
- 4-pin Line-In header (ATAPI)
- Built-in Wavetable
- Sound drivers

### BIOS:

- Phoenix 4.0X BIOS on 2MB Flash
- PCI auto configuration
- "Plug and Play" ready
- Auto detection of memory size
- Auto detection and display of EDO and SDRAM memory
- Auto configuration of IDE hard disk types
- Soft Power Down
- Multi-boot
- DMI

### Form factor:

- ATX footprint (12" x 9.6")
- Four Layer Board
- 20-pin ATX power connector
- Stacked mouse/keyboard connectors
- Stacked output audio/game port connectors
- Stacked serial/parallel connectors

### Quality Commitment:

The continuously evolving technology of the computer industry demands the highest level of quality, reliability and compatibility.

The Thunderbolt is extensively tested for compatibility under various operating systems, including: OS/2™ Warp, NOVELL, SCO™ UNIX™ ODT, Windows 95™ & NT,™ MS-DOS™ versions 5.0, 6.2 and PC-DOS.



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WP 4/97 8K



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