Chapter 1

Introduction

The PCI 430 TX system board is a high-performance personal computer system board based on a 3.3v version of the Pentium™ micrprocessor--the P54C and P55C, K6 and M2 with MMX microprocessor. The system board supports the Peripheral Component Interconnect (PCI) Local Bus Standard and provide four 32-bit PCI bus master slots.

A cache subsystem can be configured for 256k or 512K cache memory to improve overall throughput.

The system board uses the highly integrated Intel 82439TX chipset to support the PCI/ISA and green standards, and to provide the Host/PCI bridge. The 82437AB chipset also support the ACPI soft power off and Modem Ring wake-up function, it also integrates all system control functions.

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1.1 System Board Features

CPU
- Socket 7 supports Intel Pentium™ family -- P54C and P55C((MMX) 90MHz/100MHz/120Mhz/133MHz/150MHz/166MHz/200MHz/233MHz
- The Cyrix 6x86/M2 and AMD K5/K6 are also supported.

Chip Set
- Intel 82430TX

Cache Memory
- Supports Directed Map Organization,Write-Back cache policy.
- Supports 256K pipelined burst cache memory or 512K pipelined burst cache memory.

Main Memory
- Supports six memory banks using four 72-pin SIMM sockets and two 168-pin DIMM sockets.
- Up to 256 Mbytes main memory.
- Supports EDO Hyper Page Mode DRAM , Standard Fast Page mode DRAM and SDRAM.

Slots
- Four 32-bit Master PCI Bus slots and four 16-bit ISA bus slots. One shared slot that can be used as ISA or PCI.
- Support 3.3V PCI Add-On Card.

On-Board Peripherals
- On-Board Peripherals include:
    - 1 floppy port supports 2FDD
    - 2 serial ports (COMA + COMB)
    - 1 parallel port supports ECP or EPP mode
    - 2 PCI Bus Master IDE ports (up to four IDE HDD)
    - 2 Channel USB port

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Dimensions
- Standard ATX form factor
- 30cm(L) x 18.6cm(W) x 4 layer PCB

Mounting
- 6 mounting holes

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1.3 System Board Layout

ATX POWER CONNECTOR

JV3 JV4 JV5 JV6

JRMS2◇◇

PS/2

USB

JFAN

Socket 7

LPT
COMA & COMB

SIMM1
SIMM2
SIMM3
SIMM4
DIMM1
DIMM2

INTEL
FW82439TX

FDD
IDE2
IDE1

IR

JV1

SW

ON   DIP
1 2 3 4 5 6

PCI SLOT 1

PCI SLOT 2

INTEL
FW82371AB

JBAT

PCI SLOT 3

PCI SLOT 4

BATT
+
2032

ISA SLOT 1

BIOS

KBC

ISA SLOT 2

ISA SLOT 3

JP2

ISA SLOT 4

JGS
JGL
JPF
JRMS1

MS-5148