PENTIUM™

PT-733A PCI MAIN BOARD

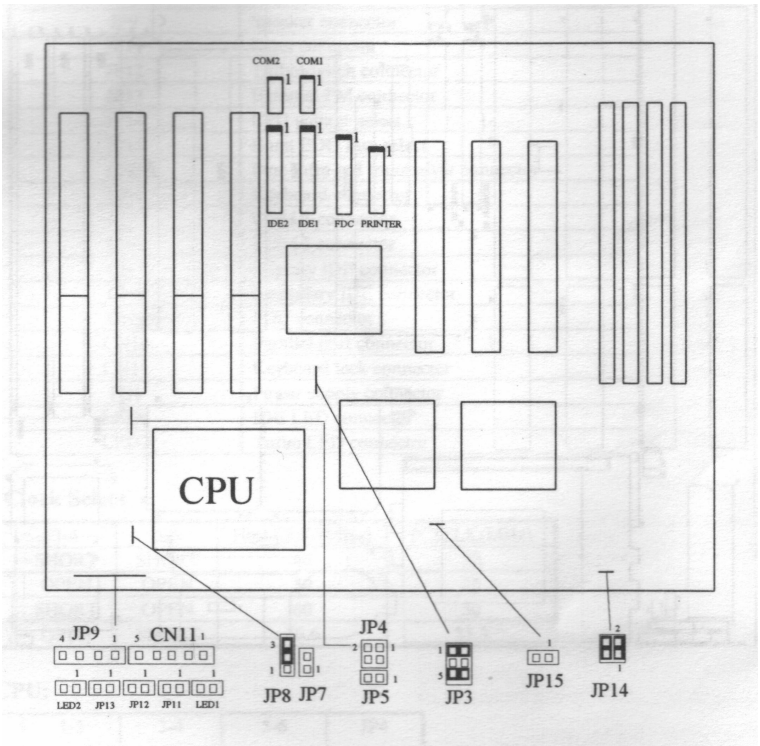
USER 'S MANUAL

CONTENTS

PT-733A System Board Specifications

- IBM AT compatible.
- Supports DRAM memory from 8MB to 128MB.
- Supports EDO and Fast Page mode DRAM.
- Supports four singled-sided or doubled-sided SIMM modules in two banks.
- Supports Flash Memory BIOS.
- Supports *256KB* Pipeline Burst cache memory.
- 4 x 16-bit ISA slots; 3 x PCI slots (Master mode).
- I/O slot signal protector on: IRQ9, DRQ2, 0WS#.
- Green features to turn off HDD spin motor / stop the CPU clock & turn off VGA display signals.
- On-board IDE controller supports up to 4 HDD (Mode 3 / Mode 4).
- On-board multi-I/O controller consists of a FDC; dual 16C550 compatible enhanced serial ports, supports IRDA or ASKIR infrared interface; a multi-mode high performance parallel port, supports SPP, EPP and ECP.
- Windows' 95 compatible.
- Award BIOS, Green and Plug and Play.
- Board size 220 mm by 220 mm.

To assist you in locating the necessary jumpers in order to configure your system, the following
Graphical guide has been added



<<Back

Jumpers & Connectors
User's Manual

Jumpers/ Connector	Description
JP3	Host Clock Select
JP4	CPU / Host Clock ratio Select
JP5	CPU write back / write through select
JP7	Cyrix M1 select
JP8	Flash ROM VCC select
JP9	Speaker connector
JP11	Reset connector
JP12	Turbo switch connector
JP13	External PM connector
JP14	CPU voltage select
JP15	Burst EDO ram select
CN2	Pine infra-red transceiver connector
CN4	Keyboard connector
CN5	COM1 connector
CN6	COM2 connector
CN7	Primary IDE connector
CN8	Secondary IDE connector
CN9	FDC connector
CN10	Parallel port connector
CN11	Keyboard lock connector
PS1	Power supply connector
LED1	IDE LED connector
LED2	Turbo LED connector

JP3: Host Clock Select

1-2	3-4	5-6	HOSTCLK (MHz)	PCICLK (MHz)
OPEN	SHORT	SHORT	40	20
SHORT	OPEN	OPEN	50	25
OPEN	SHORT	OPEN	60	30
SHORT	OPEN	SHORT	66.6	33.3

For Intel CPU:

CPU Speed	1-2	3-4	5-6	JP4
75MHz	SHORT	OPEN	OPEN	OPEN
90MHz	OPEN	SHORT	OPEN	OPEN
100MHz	SHORT	OPEN	SHORT	OPEN
120MHz	OPEN	SHORT	OPEN	1-2
133MHz	SHORT	OPEN	SHORT	1-2
150MHz	OPEN	SHORT	OPEN	1-2,3-4
166MHz	SHORT	OPEN	SHORT	1-2,3-4

JP4: CPU / Host Clock Ratio Select

JP4	Intel
3-4	3x
1-2,3-4	2.5x
1-2	2x
OPEN	1.5x

JP5: CPU write back/write through select

OPEN	Write back (**default**)
SHORT	Write through

JP7: Cyrix M1 select

Intel	OPEN
Cyrix Ml	SHORT

JP8: Flash ROM VCC Select

12V	2-3 **(default)**
5V	1-2

JP9: Speaker connector

1	Speaker data
2	NC
3	Ground
4	+5V

JP11: Reset connector

OPEN	Normal
SHORT	Reset

JP12: Turbo switch connector

OPEN	Turbo speed **(default)**
CLOSE	Normal speed (soft-key disabled)

JP13: External power management connector

OPEN	Normal (**default**)
SHORT	External PM interrupt

JPl4: CPU Voltage Select

3.54V	1-2
3.3V	1-2,3-4(default)

JP15: Burst EDO RAM select

SHORT	Burst EDO
OPEN	Others

PS1: Power supply connector

1	Power good
2	+5V
3	+12V
4	-12V
5	Ground
6	Ground
7	Ground
8	Ground
9	-5V
10	+5V
11	+5V
12	+5V

CN2: Pine infrared transceiver connector

1	Data in
2	Ground
3	Data out
4	VCC

CN11: Power LED & key-lock connector

1	+5V
2	NC
3	Ground
4	Key-lock
5	Ground

LED1: IDE LED connector

1	Anode (+)
2	Cathode (-)

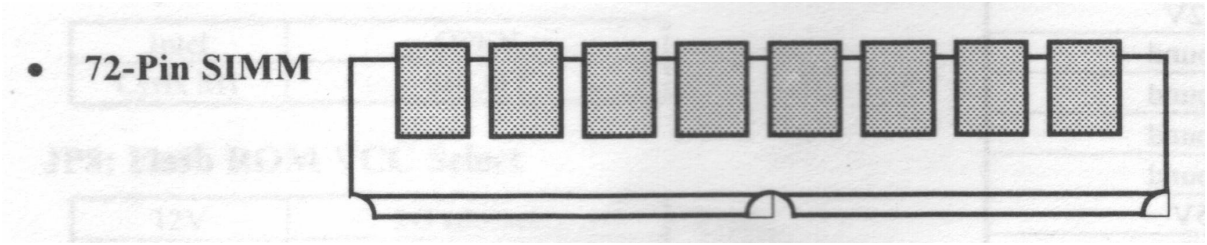
LED2: Turbo LED connector

1	Cathode (-)
2	Anode (+)

<<Back

SIMM MEMORY Configuration

This motherboard supports both 72-pin Fast Page mode DRAM, EDO DRAM and BURST EDO RAM SIMM.



This type of SIMM is a 32-bit module, (sometimes referred to as "..x32" without parity or "..x36" with parity). Since this motherboard is a 586/Pentium-based motherboard, which has 64-bit architecture, you will require a minimum of two pieces of SIMM (equal to 64-bit) in order to boot the system

Although this motherboard can support both single-bank and double bank SIMM, it should be noted that you cannot mix the two types within a 64-bit bank.

Possible memory configuration:

SIMM 1,2 (Bank 1)	SIMM 3,4 (Bank 0)	Total memory size
Empty	1M x 32 (4 MB)	8 MB
Empty	2M x 32 (8 MB)	16 MB
Empty	4M x 32 (16 MB)	32 MB
Empty	8M x 32 (32 MB)	64 MB
1M x 32 (4 MB)	Empty	8 MB
1M x 32 (4 MB)	1M x 32 (4 MB)	16 MB
1M x 32 (4 MB)	2M x 32 (8 MB)	24 MB
1M x 32 (4 MB)	4M x 32 (16 MB)	40 MB
1M x 32 (4 MB)	8M x 32 (32 MB)	72 MB
2M x 32 (8 MB)	Empty	16 MB
2M x 32 (8 MB)	1M x 32 (4 MB)	24 MB
2M x 32 (8 MB)	2M x 32 (8 MB)	32 MB
2M x 32 (8 MB)	4M x 32 (16 MB)	48 MB
2M x 32 (8 MB)	8M x 32 (32 MB)	80 MB
4M x 32 (16 MB)	Empty	32 MB
4M x 32 (16 MB)	1M x 32 (4 MB)	40 MB
4M x 32 (16 MB)	2M x 32 (8 MB)	48 MB
4M x 32 (16 MB)	4M x 32 (16 MB)	64 MB
4M x 32 (16 MB)	8M x 32 (32 MB)	96 MB
8M x 32 (32 MB)	Empty	64 MB
8M x 32 (32 MB)	1M x 32 (4 MB)	72 MB
8M x 32 (32 MB)	2M x 32 (8 MB)	80 MB
8M x 32 (32 MB)	4M x 32 (16 MB)	96 MB
8M x 32 (32 MB)	8M x 32 (32 MB)	128 MB

<<Back