

MP080 USER'S MANUAL
INTEL TRITON TX MOTHERBOARD

Foreword

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This manual is designed to provide the basic necessary information for the end user to understand and properly use the MP080 mainboard. The mainboard ensures superlative performance and complete compatibility with industry standards, which incorporating many technical enhancements.

Trademarks

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Checklist

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Your MP080 package contains the following:

- * MP080 mainboard
- * User's manual
- * HDD/FDD Cable
- * Com1, Com2 and PS/2 mouse Cable
- * Printer Cable

Precautions

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Make sure you ground yourself before handling the mainboard or other system components. Electrostatic discharge will damage the mainboard. Note that you must take special precaution when handling the mainboard in dry or air-conditioned environments.

The precaution below is to protect the mainboard from electrostatic discharge.

- * Do not remove the anti-static packaging until you are ready to install the mainboard and other system components.
- * Ground yourself before removing any system component from its protective anti-static packaging. To ground yourself, grasp the expansion slot covers or other unpainted portion computer chassis.
- * Frequently ground yourself while working, or use a grounding strap.
- * Handle the mainboard by the edges and avoid touching its components.

Motherboard Features

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- * Intel 82430TX PCI chipset: 82439TX(MTXC) / 82371AB(PIIX4)
- * Supports Intel P54C/P55C(MMX), Cyrix/LBM 6x86, and AMD KS/K6(MMX) microprocessors
- * Four high performance 32 bits PCI local bus master
- * Four 16 bits ISA system bus I/O slots
- * 256K/512K synchronous cache onboard
- * Main memory (DRAM) from 4MB to 256MB, either Fast Page mode / EDO mode/SDRAM
- * Supports Four SIMMs and Two DIMM sockets
- * Supports two USB (Universal Serial Bus) ports
- * Enhanced IDE onboard(Ultra DMA-33)
- * IR port optional
- * Supports Windows 95 PnP (Plug and Play) function and PC97 for I/O
- * Enhanced fast I/O (Serial port, Parallel port (ECP/EPP/SPP), FDC) onboard
- * Supports ACPI function

Jumpers, DIP Switch and Connectors Reference

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Before installing the mainboard, make sure that the jumper settings are properly set for your configuration. The functions of the different jumpers are respectively as follows:

CPU Clock Selector	JP7, JP8, JP9
CPU /BUS Clock Ratio Selector	SW1-6, SW1-7, SW1-8
CPU Voltage Selector	SW1-1 · 2 · 3 · 4 · 5
Single, Dual Voltage Selector	JP15
Flash RORI Voltage Selector	JP12
CMOS Charge /Discharge	JP3
Mainboard Connectors:	
Hard disk Connector	IDE 1&IDE2
Printer Connector	PRN 1
Floppy Corlnector	FDC 1
Serial Connector	COM1 & COM2
Universal Serial Bus Connector	USB
SMI Push Button Connector	J7
SMI LED Connector	J1
Hard disk LED Connector	J3
Keylock and Power LED Connector	J6
Speaker Connector	J4
Reset Connector	J2
Keyboard Connector	KB 1
PS/2 Mouse	MS 1
Power Supply Connector	P1

Jumper Caps reference :
 Red cap for voltage selector
 Yellow cap for Clock Selector
 Black cap for others

CPU Jumper Setting

Before installing the CPU, make sure that the CPU VOLTAGE SELECTOR are set properly, wrong voltage setting will damage the CPU and mainboard.

SINGLE VOLTAGE CPU: JP15 ALL OPEN
 DUAL VOLTAGE CPU: JP15 ALL CLOSE

CPU CORE VOLTAGE REFERENCE

SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	VRE
ON	ON	ON	ON	OFF	3.5V
OFF	ON	ON	ON	OFF	3.4V
ON	OFF	ON	ON	OFF	3.3V
OFF	OFF	ON	ON	OFF	3.2V
ON	OFF	OFF	ON	OFF	2.9V
OFF	OFF	OFF	ON	OFF	2.8V
ON	OFF	OFF	OFF	OFF	2.1V

CLOCK SETTING REFERENCE

JP7	JP8	JP9	FREQUENCE
1-2	1-2	1-2	50 MHz
2-3	1-2	1-2	55 MHz
1-2	2-3	1-2	60 MHz
1-2	1-2	2-3	66 MHz
2-3	2-3	1-2	75 MHz
2-3	1-2	2-3	83 MHz

CLOCK RATIO SELECT REFERENCE

SW6	SW7	SW8	P54C	P55C
ON	ON	OFF	x2.5	x2.5 (Clock Ratio)
OFF	ON	OFF	x3	x3
ON	OFF	OFF	x2	x2
OFF	OFF	OFF	x1.5	x1.5

Intel CPU (Single Voltage)

-----						+----- SW1 -----+							
		JP15	JP7	JP8	JP9	1	2	3	4	5	6	7	8
PP-75	/ 3.52V	OPEN	1-2	1-2	1-2	1	1	1	1	0	0	0	0
PP-90	/ 3.52V	OPEN	1-2	2-3	1-2	1	1	1	1	0	0	0	0
PP-100	/ 3.52V	OPEN	1-2	1-2	2-3	1	1	1	1	0	0	0	0
PP-120	/ 3.52V	OPEN	1-2	2-3	1-2	1	1	1	1	0	1	0	0
PP-133	/ 3.52V	OPEN	1-2	1-2	2-3	1	1	1	1	0	1	0	0
PP-150	/ 3.52V	OPEN	1-2	2-3	1-2	1	1	1	1	0	1	1	0
PP-166	/ 3.52V	OPEN	1-2	1-2	2-3	1	1	1	1	0	1	1	0
P54CT-180	/ 3.38V	OPEN	1-2	2-3	1-2	0	1	1	1	0	0	1	0
P54CT-180	/ 3.52V	OPEN	1-2	2-3	1-2	1	1	1	1	0	0	1	0
P54CT-200	/ 3.38V	OPEN	1-2	1-2	2-3	0	1	1	1	0	0	1	0
P54CT-200	/ 3.52V	OPEN	1-2	1-2	2-3	1	1	1	1	0	0	1	0

Note: JP15: ALL OPEN
SW1 : 1-ON, 0-OFF

Intel CPU (Dual Voltage)

-----						+----- SW1 -----+							
		JP15	JP7	JP8	JP9	1	2	3	4	5	6	7	8
P55C-150	/ 2.8V	CLOSE	1-2	2-3	1-2	0	0	0	1	0	1	1	0
P55C-166	/ 2.8V	CLOSE	1-2	1-2	2-3	0	0	0	1	0	1	1	0
P55C-200	/ 2.8V	CLOSE	1-2	1-2	2-3	0	0	0	1	0	0	1	0
P55C-233	/ 2.8V	CLOSE	1-2	1-2	2-3	0	0	0	1	0	0	0	0
P55C-266	/ 2.8V	CLOSE	1-2	1-2	2-3	0	0	0	1	0	1	0	1

Note: JP15: ALL CLOSE
SW1 : 1-ON, 0-OFF

AMD K5 CPU (Single Voltage)

-----						+----- SW1 -----+							
		JP15	JP7	JP8	JP9	1	2	3	4	5	6	7	8
K5PR-75	/ 3.52V	OPEN	1-2	1-2	1-2	1	1	1	1	0	0	0	0
K5PR-90	/ 3.52V	OPEN	1-2	2-3	1-2	1	1	1	1	0	0	0	0
K5PR-100	/ 3.52V	OPEN	1-2	1-2	2-3	1	1	1	1	0	0	0	0
K5PR-120	/ 3.52V	OPEN	1-2	2-3	1-2	1	1	1	1	0	0	0	0
K5PR-133	/ 3.52V	OPEN	1-2	1-2	2-3	1	1	1	1	0	0	0	0
K5PR-150	/ 3.52V	OPEN	1-2	2-3	1-2	1	1	1	1	0	1	1	0
K5PR-166	/ 3.52V	OPEN	1-2	1-2	2-3	1	1	1	1	0	1	1	0
K5PR-200	/ 3.52V	OPEN	1-2	1-2	2-3	1	1	1	1	0	0	1	0

Note: JP15: ALL OPEN
SW1 : 1-ON, 0-OFF

AMD K6 CPU (Dual Voltage)

-----						+----- SW1 -----+							
		JP15	JP7	JP8	JP9	1	2	3	4	5	6	7	8
K6-166	/ 2.9V	CLOSE	1-2	1-2	2-3	1	0	0	1	0	1	1	0
K6-200	/ 2.9V	CLOSE	1-2	1-2	2-3	1	0	0	1	0	0	1	0
K6-233	/ 3.2V	CLOSE	1-2	1-2	2-3	0	0	1	1	0	0	0	0
K6-266	/ 3.2V	CLOSE	1-2	1-2	2-3	0	0	1	1	0	1	0	1
K6-233	/ 2.1V	CLOSE	1-2	1-2	2-3	1	0	0	0	0	0	0	0
K6-266	/ 2.1V	CLOSE	1-2	1-2	2-3	1	0	0	0	0	1	0	1
K6-300	/ 2.1V	CLOSE	1-2	1-2	2-3	1	0	0	0	0	1	1	1

Note: JP15: ALL CLOSE
SW1 : 1-ON, 0-OFF

IBM/CYRIX CPU (SINGLE Voltage)

-----						+----- SW1 -----+							
		JP15	JP7	JP8	JP9	1	2	3	4	5	6	7	8
PR-120	/ 3.52V	OPEN	1-2	1-2	1-2	1	1	1	1	0	1	0	0
PR-133	/ 3.52V	OPEN	2-3	1-2	1-2	1	1	1	1	0	1	0	0
PR-150	/ 3.52V	OPEN	1-2	2-3	1-2	1	1	1	1	0	1	0	0

PR-166 / 3.52V	OPEN	1-2	1-2	2-3	1	1	1	1	0	1	0	0
PR-200 / 3.52V	OPEN	2-3	2-3	1-2	1	1	1	1	0	1	0	0

Note: JP15: ALL OPEN
 SW1 : 1-ON, 0-OFF

IBM/CYRIX CPU (Dual Voltage)

-----					+----- SW1 -----+							
	JP15	JP7	JP8	JP9	1	2	3	4	5	6	7	8
PR-120 / 2.8V	CLOSE	1-2	1-2	1-2	0	0	0	1	0	1	0	0
PR-133 / 2.8V	CLOSE	2-3	1-2	1-2	0	0	0	1	0	1	0	0
PR-150 / 2.8V	CLOSE	1-2	2-3	1-2	0	0	0	1	0	1	0	0
PR-166 / 2.8V	CLOSE	1-2	1-2	2-3	0	0	0	1	0	1	0	0
PR-200 / 2.8V	CLOSE	2-3	2-3	1-2	0	0	0	1	0	1	0	0

Note: JP15: ALL CLOSE
 SW1 : 1-ON, 0-OFF

IBM/CYRIX M2 CPU (Dual Voltage)

-----					+----- SW1 -----+							
	JP15	JP7	JP8	JP9	1	2	3	4	5	6	7	8
MX-166/ 2.9V(133MHz)	CLOSE	1-2	1-2	2-3	1	0	0	1	0	1	0	0
MX-166/ 2.9V(150MHz)	CLOSE	1-2	2-3	1-2	1	0	0	1	0	1	1	0
MX-200/ 2.9V(150MHz)	CLOSE	2-3	2-3	1-2	1	0	0	1	0	1	0	0
MX-200/ 2.9V(166MHz)	CLOSE	1-2	1-2	2-3	1	0	0	1	0	1	1	0
MX-233/ 2.9V(188MHz)	CLOSE	2-3	2-3	1-2	1	0	0	1	0	1	1	0
MX-233/ 2.9V(200MHz)	CLOSE	1-2	1-2	2-3	1	0	0	1	0	0	1	0
MX-266/ 2.9V(225MHz)	CLOSE	2-3	2-3	1-2	1	0	0	1	0	0	1	0
MX-266/ 2.9V(233MHz)	CLOSE	1-2	1-2	2-3	1	0	0	1	0	0	0	0

Note: JP15: ALL CLOSE
 SW1 : 1-ON, 0-OFF

IDT-C6 CPU

-----					+----- SW1 -----+							
	JP15	JP7	JP8	JP9	1	2	3	4	5	6	7	8
C6-150	OPEN	2-3	2-3	1-2	1	1	1	1	0	1	0	0
C6-183	OPEN	1-2	2-3	1-2	1	1	1	1	0	0	1	0
C6-200	OPEN	1-2	1-2	2-3	1	1	1	1	0	0	1	0
C6-225	OPEN	2-3	2-3	1-2	1	1	1	1	0	0	1	0
C6-240	OPEN	1-2	2-3	1-2	1	1	1	1	0	0	0	0

Note: JP15: ALL OPEN
 SW1 : 1-ON, 0-OFF

Flash ROM Voltage Selector

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 JP12
 1-2 5 VOLTS FLASH ROM (SST / WINBOND / Other brand)
 2-3 12 VOLTS FLASH ROM (Intel / MX brand)

NOTE: Wrong Voltage jumper setting will danlage the flash ROM and mainboard.

CMOS Charge / Discharge(Reset)

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 JP3
 1-2 CMOS CHARGE (DEFAULT)
 2-3 CMOS DISCHARGE OR RESET.

IR Jumper Setting

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JP1	JP2	
1-2	1-2	UART2 IS USED BY COMMUNICATION Port2 (COM2)
2-3	2-3	UART2 IS USED BY Infrared(IR) MOUDULE

MEMORY CONFIGURATION

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Memory supports from 4MB upto 256MB by using Standard,EDO or SDRAM.

MEMORY MODULE CONBINATIONS:

SIMM 1,2	SIMM 3,4	DIMM 1	DIMM 2)
(BANK 4,5)	(BANK 3, 2)	(BANK 2, 3)	(BANK 0, 1)
FREE	FREE	NA	FREE
FREE	NA	FREE	FREE
FREE	SB	SB	FREE

NOTE: "SB" means single bank RAM module (single side).
"DB" means double bank RAM moudule(double side).
"NA" means not accessible.

IMPORTANT: We don't recommand mixed 3V DIMM with 5V SIMM modules on the mainboard. The 5V SIMM data will drive 5V signal to 3V DIMM data port on the common memory data bus. It will cause 3V DIMM to degrade. This degradation will change the CMOS properties of 3V DIMM, and it will reduce the 3V DIMM module life cycle. If you really want to use 5V SIMMS and 3V DIMMs together, please contact your DRAM Vendor to confirm that 3V DIMMs mixed with 5V SIMMs will not damage the 3V DIMM chips, and then you can mix 3V DIMMs and 5V SIMMs on WIN MP080 mainboard.

MAINBOARD CONNECTORS

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IDE 1 & 2	HARD DISK CONNECTOR
FDC 1	FLOPPY CONNECTOR
PRN 1	PRINTER PORT CONNECTOR
COM 1 & 2	SERIAL PORT CONNECTOR
USB	UNIVERSAL BUS CONNECTOR
MS1	PS/2 MOUSE CONNECTOR
MB 1	KEYBOARD CONNECTOR
IR1	INFRARED MODULE CONNECTOR
J7	SMI SWITCH CONNECTOR
J3	HARD DISK LED CONNECTOR
J6]KEYLOCK & POWER LED
J4	SPEAKER CONNECTOR
J2	RESET CONNECTOR
J1	SMI LED CONNECTOR

AWARD BIOS SETUP

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Award BIOS support plug and play function and has a built-in setup program that allows the users to modify the basic system configuration. This type of information is stored in CMOS so that it retains the setup information when the power is turned off.

1. Turn on or reboot the system. when the below message appears at the bottom of the screen during the POST (Power On Self Test) press DEL key to enter setup.
2. Press the DEL key to enter the Award BIOS program and the main menu will appear on the screen. The main menu allows you to select from ten setup functions and two exit choices.
3. For the safe, please select "LOAD SETUP DEFAULTS" for BIOS setup.

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