

MP032 USER'S MANUAL
OPTi 486DX PCI/VLB/ISA MOTHERBOARD

Warning

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To ensure the reliability of the Computer DO NOT reconfigure the board while the Power is ON. If you wish to reconfigure the board, make sure that the power to the system is OFF before changing any hardware setting such as Jumper setting or DIP switch.

Checklist

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Your 486VL3 Cache pakage contain the following:

- * 486VL3 Cache Mother board.
- * User's manual.

Mother Board Features

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- * OPTI chipset 82(3895, 82C822 and 82C602
- * Support 80486 SX/DX/DX2, P24T, P24C, AMD 486 SL-Enhanced P23S, P4S, P24S (DX4) and Cyrix M6F17 Microprocessor
- * Memory up to 128MB
- * Optional 64KB, 128KB or 256KB external cache
- * Five 16bit slots, Three VESA slots 1 Slave/2 Master and Three PCI slots
- * Dimension: 22 x 25 cm with 4 Layers
- * 1x clock source, supporting systems running from 25 to 50 MHz
- * Support System Memory Management (SMM) for Power Management
- * Support full SMI Interface
- * Power Management port for specific control during all modes of operation

Jumpers and Connectors reference

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Before installing the mother board, make sure the jumpers setting are set for your configuration. The Function of each jumpers are as follows:

CPU Type Selector	JP7,JP8,JP10,JP11,JP15,JP36, JP37,JP38
SL-enhance CPU Selector	JP13,JP17,JP21
P24C Clock Selector	JP12
M7 Clock Selector	JP6
CPU Voltage Selector	JP16
Clock Generator Frequency Selector	JP30,JP31,JP32,JP33,JP34

JP13 JP17 JP21
CLOSE CLOSE CLOSE for SL-enhance CPU
OPEN OPEN OPEN for Other CPU

P24C Clock Selector

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OPEN P24C X3 CLK
1-2 P24C X2.5 CLK
2-3 P24C X2 CLK

CYRIX M7 Clock Selector

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1-2 M7 X1 CLK
2-3 M7 X2 CLK
OPEN OTHER CPU

CPU VOLTAGE Selector

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1-2, 4-5 5.0 VOLTS OTHER CPU
2-3, 5-6 3.45 VOLTS P24C CPU

Clock Generator Frequency Selector

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 JP30 JP31 JP32 JP33 JP34
25/8 OPEN OPEN OPEN OPEN OPEN
33/8 CLOSE CLOSE OPEN OPEN OPEN
40/8 OPEN CLOSE OPEN OPEN OPEN
50/16 CLOSE OPEN OPEN OPEN OPEN
33/16 CLOSE OPEN OPEN CLOSE OPEN

PCI Clock Selector

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JP4 JP5
1-2 2-3 ASYNC Clock (with external OSC.)
2-3 1-2 SYNC Clock

Memory Selector

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1-2 SIMM 72 pin as BANK 0
2-3 SIMM 72 pin as BANK 1

NOTE: If 30 pin SIMM module is used, 72 pin SIMM module can not be set to Bank 0

Mono/Color Selector

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OPEN MONO include EGA and VGA
CLOSE COLOR for CGA only

Charge / Discharge CMOS

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1-2 DISCHARGE CMOS NOTE: All DATAS in the CMOS will be ERASED.
2-3 CHARGE CMOS

CACHE Option

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SIZE	JP20	JP22	JP24	JP23	TAG RAM
64 K	2-3	OPEN	OPEN	1-2	8K * 8
128 K	1-2	CLOSE	OPEN	1-2	8K * 8
256 K	2-3	CLOSE	CLOSE	2-3	16K * 8
				1-2	32K * 8

CACHE TYPE

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SRAM	BANK 0	BANK 1	TAG RAM
64 K	8K * 8	8K * 8	8K * 8
128 K	32K * 8	NONE	8K * 8
256 K	32K * 8	32K * 8	32K * 8 /16K * 8

BANK 0 (U25, U28, U33, U39)
BANK 1 (U26, U29, U34, U40)

VL-BUS Option

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JP18	JP19
OPEN <=33 MHz	OPEN 0 W/S
CLOSE > 33 MHz	CLOSE 1 W/S

CONNECTORS

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- JP3 Monitor Power Saving. NOTE: This function need a Green function power supply and also note of polarity.
- S1 Reset Connector
- J2 External Battery Connector (Note of the POLARITY)
NOTE: PIN 1 fort (+) PIN 4 for (-)
- J16 Keylock & Power LED

- J1 Keyboard Connector
- PL1 Power Supply Connector
NOTE: Wrong connection will damage the mainboard.
- JP28 Turbo Switch OPEN :NORMAL SPEED
CLOSE :TURBO SPEED
- JP27 Turbo LED (Note of the POLARITY)
OPEN NORMAL SPEED LED WILL LIGHT OFF
CLOSE TURBO SPEED LED WILL LIGHT ON
NOTE: If KEYBOARD is used to change the speed TURBO LED will not change.
- JP25 Speaker Connector

Micellaneous Jumpers (PLEASE DON'T CHANGE THE FOLLOWING JUMPERS)

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 JP9 JP14 JP29 JP39 JP40 JP41 JP42 JP43 JP44 JP46
 2-3 1-2 1-2 1-2 1-2 2-3 OPEN OPEN OPEN 1-2

Memory Configuration

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 The system board Memory can be expanded from 2MB to 128MB. Memory can be installed by using 256K*9/36, 1M*9/36, 4M*36 and 16M * 36 SIMM RAM Module.

MEMORY SIZE	SIMM 30 PIN	SIMM1	SIMM2
2M		256K* 36 512K* 36	256K* 36
4M	256K* 9	1M*36 512K* 36	512K* 36
8M		1M*36 2M*36	1M*36
12M	256K* 9	512K* 36	2M*36 2M*36
16M	4M*9	4M*36 2M*36	2M*36
32M	4M*9	4M*36 4M*36	4M*36

