

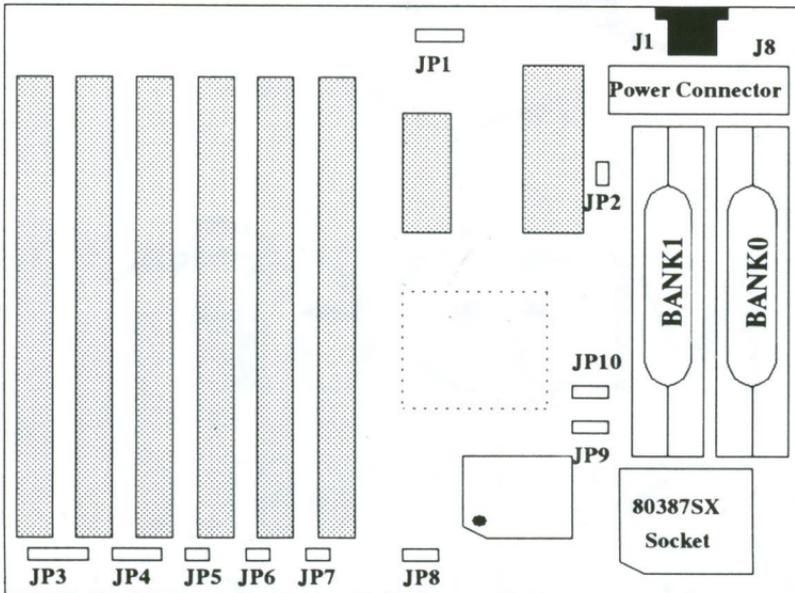
# M396F

386SX / 486SLC

Mainboard User's Guide

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## Jumper, Connector, and Socket Locations



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## KEY FEATURES

- Single chip for 386SX or CX486SLC 25/33/40 MHZ system
- Socket support for 80387SX coprocessor
- Page mode and block interleave DRAM management
- Memory configurations from 512KB to 16MB using combinations of 256KB, 512K, 1M and 4M SIMM modules
- Support hardware and software turbo switch
- Support shadow RAM for system and video BIOS
- Six 16-bit I/O slots
- External and rechargeable battery-backed CMOS RAM for real time clock and system configuration
- PCB with dimensions of 220mm x 170mm

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# JUMPER SETTING AND CONNECTORS

## *JP1. External battery connector*

Pin 1: VDD(6V)                      Pin 4: Gnd

Pin 2,3: Rechargeable battery pin

Note: To clear the CMOS configuration, place a jumper cap on pin3-4 and then place the cap back on pin 2-3 for normal operation.

## *JP2. Display type select*

Close: Color

Open: Monochrome

## *JP3. Power LED and keylock connector*

Pin 1: LED power

Pin 2: Not used

Pin 3: Gnd

Pin 4: Keyboard inhibitor

Pin 5: Gnd

## *JP4. Speaker connector*

Pin 1: Data out

Pin 2: Not used

Pin 3: Gnd

Pin 4: + 5Vdc

## *JP5. Turbo LED connector*

Pin 1: + Anode

Pin 2: -cathode

## *JP6. Turbo switch connector*

Close: Turbo speed

Open: Low Speed

You can also switch the clock speed using software control via keyboard commands.

CTRL,ALT,[+]: Press these three keys simultaneously to select Turbo Mode.

CTRL,ALT,[−]: Press these three keys simultaneously to select LOW Speed Mode.

## *JP7. Reset connector*

Close: Reset

Open: Not reset

## JP9,JP10. CPU clock select

CLOCK	JP9	JP10
16 MHZ	1-2	1-2
25 MHZ	1-2	2-3
33 MHZ	2-3	1-2
40 MHZ	2-3	2-3

## MEMORY ARCHITECTURE

The main board contains 2 banks of memory. A total of 8 modes are available.

MODE	DRAM TYPE		TOTAL MEMORY
	BANK0	BANK1	
1	256K	x	512KB
2	256K	256K	1MB
3	512K	x	1MB
4	512K	512K	2MB
5	1M	x	2MB
6	1M	1M	4MB
7	4M	x	8MB
8	4M	4M	16MB

PLEASE SHORT JP1 PIN 2-3 WITH A JUMPER CAP  
(REMOVED FROM PIN 3-4) TO AVOID SYSTEM BOOT-UP FAILURE  
JP1 PIN 3-4 SHORTED IS TO PREVENT BATTERY FROM LOSING  
POWER WHEN SHIPPED BY SEA