

### Cache Configuration

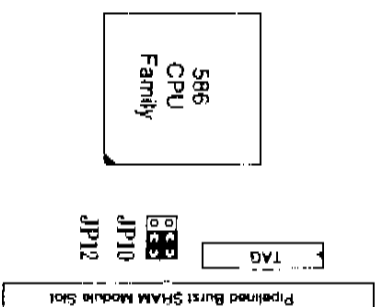
The motherboard has a write-back caching scheme. You can configure the motherboard's cache by installing cache chips in the sockets noted below and then set jumpers JP10 to set the size of SRAM you installed.

#### Cache Size and RAM Locations

Cache Size	Cache RAM	TAG RAM	Cacheable Range
256KB	256K x 32, 2pcs (or 256K module) on U20, U30, or J31	16K x 8 on U17	64MB
512KB	512K x 32, 2pcs- 256K module on U20, U30, and U25	16K x 8 on U17	128MB

### 256K Pipelined Burst Cache Configuration

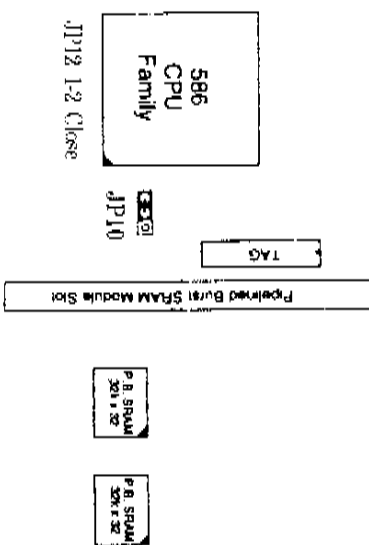
1. Insert jumper into JP10 2,3pin & JP12 2,3pin when you have 256K Pipelined Burst SRAM CHIPs onboard.



256K Pipelined Burst Cache Configuration

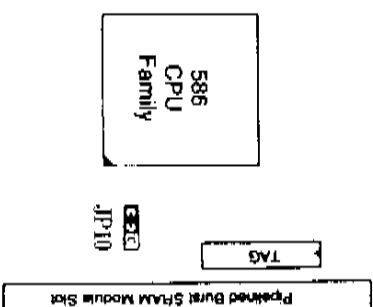
### 512K Pipelined Burst Cache Configuration

1. Insert jumper into JP10 1,2pin when you have 512K Pipelined Burst SRAM (256K SRAM CHIPs and 256K Pipelined Burst SRAM module).
2. Due to the various design, contact the supplier for Pipelined Burst SRAM module when you want to upgrade to 512K cache on your motherboard.



512K Pipelined Burst Cache Configuration

1. Insert Jumper into JP10 1,2pin when you have 512K Pipelined Burst SRAM (512K SRAM CHIPs )



512K Pipelined Burst Cache Configuration

**Pentium-150/166 CPU Settings(2.5 x clock)**

Pentium(P54CX)-150/60MHz

JP7



JP6

Pentium(P54X)-166/66MHz

JP7



JP6

Figure 2-13 CPU Jumper Settings

*Note: You must equip the CPU with a fan and heat sink for system stability.***Pentium-180/200 CPU Settings(3.0 x clock)**

Pentium(P54CX)-180/60MHz

JP7



JP6

Pentium(P54CX)-200/66MHz

JP7



JP6

Figure 2-14 CPU Jumper Settings

*Note: You must equip the CPU with a fan and heat sink for system stability.***JP20:CPU Voltage Select**

Set This jumpers to configure the proper voltage for the installed CPU.

CPU Type Voltage	JP20
Standard and VR P54CX CPU(3.3V/3.3V default)	1-2 close
VR P54CX and AMD 5486 and cyrix 6x86 CPU(3.45V-3.6V)	2-3 close

*Note: Check with your CPU vendor to make sure of the CPU type voltage.***Memory Configuration**

The motherboard supports two banks of 72-pin SIMM, EDO DRAM, and one 3.3V Unbuffered DIMM. The motherboard requires SIMM of at least 768k access time.

Single-side SIMM      Double-side SIMM

4MB = 1MB x 38632)      2MB = 512K x 38632)  
 16MB = 4MB x 38632)      8MB = 2MB x 38632)  
 64MB = 16MB x 38632)      32MB = 8MB x 38632)

The motherboard supports from 4 to 128 Mbytes with no other restrictions on memory configurations. You can install SIMM in any combination without having to rely on a memory configuration table. Memory configuration is thus "Table-Free" in any SIMM bank.

**DIMM Voltage only su**

Type of DIMM
3.3V SDRAM (default)

*Note:1 You must install two strips of SIMM modules to complete a bank.*

2 Bank 1 and DIMM share the same part of DRAM architecture so that the system only recognizes DIMM when you install DIMM and Bank1 together.

### CPU Type Configuration

Set the motherboard's (JP1) jumpers JP6,JP7,JP26,and JP27 according to CPU type as described below, and the set JP20 for the proper voltage of the CPU.

#### Pentium-75/90/100 CPU Settings (1.5 x clock)

#### AMD 5K86-P75/P90/P100/P120/P133(1.5 x clock)

Pentium (P54CX)-75 / 5.0MHz

AMD 5K86SSA 5L-P75/50MHz


JP7 

JP6 

AMD 5K86SSA 5L-P90/50MHz

AMD 5K86K 5L-P100/55MHz

JP7 

JP6 

Pentium (P54CX)-90/60MHz

AMD 5K86SSA 5L-P90/60MHz

AMD 5K86K 5L-P120/60MHz

JP7 

JP6 

Pentium (P54CX)-100/60MHz

AMD 5K86SSA 5L-P100/60MHz

AMD 5K86K 5L-P133/60MHz

JP7 

JP6 

Figure 2-1-1 CPU Jumper Settings

*Note:*1. You must equip the CPU with a fan and heat sink for system stability.

2. AMD CPU(SSA/K/K5) voltage is based on VRE spec. Setting for JP20 should be modified.

#### Pentium-100/120/133 CPU Settings(2.0 x clock)

#### Cyrix 6x86-P120+ /P133+ /P150+ /P166+ CPU Settings(2.0 x clock)

#### AMD 5K86-P150/P166 CPU Settings(2.0 x clock)

Pentium (P54CX)-100 / 5.0MHz

Cyrix 6x86-P120+ 50MHz

JP7 

JP6 

Cyrix 6x86-P133+ 50MHz

JP7 

JP6 

Pentium (P54CX)-120/60MHz

Cyrix 6x86-P150+ 60MHz

AMD 5K86K 5L-P150/60MHz

JP7 

JP6 

Pentium (P54CX)-133/60MHz

Cyrix 6x86-P166+ 60MHz

AMD 5K86K 5L-P166/60MHz

JP7 

JP6 

Figure 2-1-2 CPU Jumper Settings

*Note:*1. You must equip the CPU with a fan and heat sink for system stability.

2. AMD CPU(SSA/K/K5) voltage is based on VRE spec. Settings for JP20/JP31 should be modified.

3. Cyrix 6x86-P166+ has to be matched with 60ns DRAMs.

## 2 Hardware Setup



This chapter explains how to configure the motherboard's hardware. After you install the motherboard, you can set jumpers inside memory on the motherboard, and make case connections. Refer to this chapter whenever you upgrade or reconfigure your system.

*CAUTION* Turn off power to the motherboard system chassis, and peripheral devices before performing any work on the motherboard or system.

### Jumpers

#### JP11/JP19:CMOS Clear Jumper

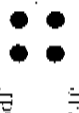
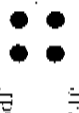
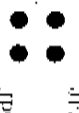





Clear the CMOS memory by momentarily shorting this jumper, then open the jumper to retain new settings.

CMOS Setting	JP11/JP19
Retain CMOS data (default)	
Clear CMOS data	

For DS12887A Battery to clear CMOS by JP11 For Li Battery to clear CMOS by JP19

#### JP26, JP27:Bus Fraction Core/Bus Ratio Select

Select this jumper according to your CPU clock.

Ratio	586 CPU Family	JP26,JP27
3:2	Pentium-75, 90, 100MHz	
[Default]	AMD 5x86 (SS5A), P75, P90, P100MHz; AMD 5x86 K5, P120, P133MHz	
1.5 x clock	AMD 5x86 K5, P120, P133MHz	
2/1	Pentium-130, 133MHz	
2 x clock	Cyrix- P120, P133, P150, P166MHz AMD 5x86 K5, P150, P166MHz	
5/2	Pentium-150, 166MHz	
(2.5 x clock)		
3/1	Pentium-180, 200MHz	
(3 x clock)		