

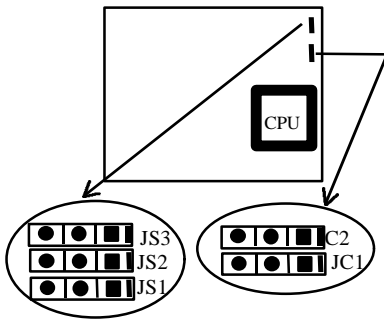
Chapter 2

Jumper Configuration

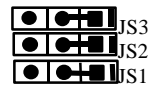
The mainboard offers a set of jumper settings to facilitate clock frequency adjustments and other important selections.

System Clock Selection

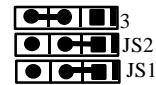
In this TX Baby AT mainboard, there are five selections of SC (System Clock). Users have to set a group of jumpers as shown in the following illustration to determine which system clock is used.



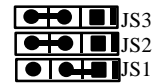
System Clock 50MHz:



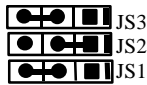
System Clock 55MHz:



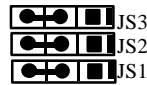
System Clock 60MHz :



System Clock 75MHz:



System Clock 66MHz :

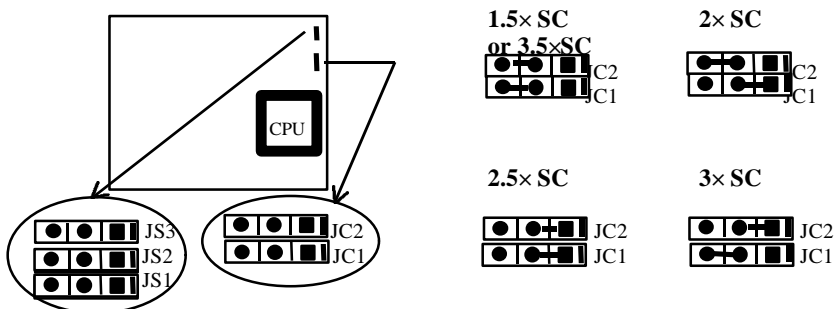


Clock Multiplier Selection

Jumper Configuration

The Intel Pentium CPU multiple clock settings are as shown below:

**** Note: SC -- System Clock**



*** Remark: 3.5x SC is only for 233MHz Pentium MMX CPU & K6 CPU.**

CPU Frequency Selection

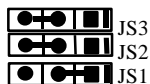
According to the CPU's specification, set the system clock and clock multiplier carefully. The following illustrations list all jumper settings for the major types of CPUs.

For Intel Pentium 75~233MHz

75=1.5 x 50MHz:



90=1.5 x 60MHz:



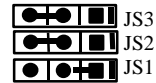
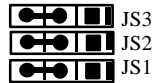
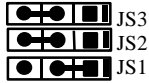
100=1.5 x 66MHz:



120=2 x 60MHz:

133=2 x 66MHz:

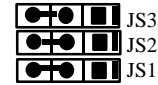
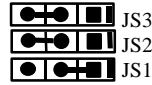
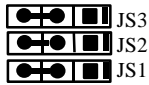
150=2.5 x 60MHz:



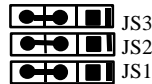
166=2.5× 66MHz:

180=3× 60MHz:

200=3× 66MHz:



233=3.5 × 66MHz:



* Remark: 3.5× SC is only for Pentium MMX CPU.

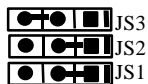
For Cyrix 6× 86 CPU

Jumper Configuration

P120+(100MHz)=50MHz × 2:



P133+(110MHz)= 55MHz × 2:



P150+(120MHz)=60MHz × 2:



P166+(133MHz)= 66MHz × 2:



P200+(150MHz)= 75MHz × 2:



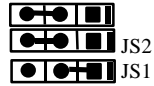
**** Note:**

The maximum speed of Intel PClset specification is 66MHz only, it's recommended by Intel not to set system clock frequency at 75MHz.

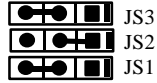
For Cyrix 6× 86MX CPU

MX-PR166(150MHz)= 60MHz × 2.5:

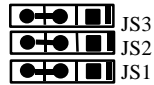
JS3



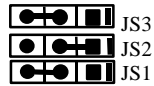
MX-PR200(150MHz)= 75MHz × 2:



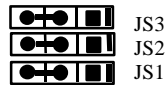
MX-PR200(166MHz)= 66MHz × 2.5:



MX-PR233(188MHz)= 75MHz × 2.5:



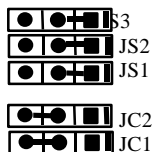
MX-PR233(200MHz)= 66MHz × 3:



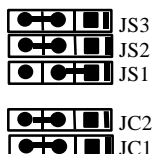
For AMD K5 CPU

Jumper Configuration

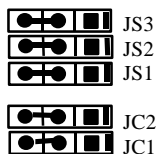
PR75 (75MHz) = 50MHz × 1.5:



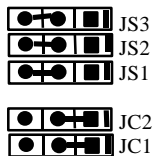
PR90, PR120 (90MHz) = 60MHz × 1.5:



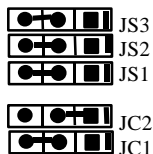
PR100, PR133 (100MHz) = 66MHz × 1.5:



PR166 = 66MHz × 2.5:



PR200 = 66MHz × 3:



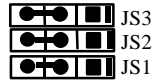
For AMD K6 CPU

K6 - 166 (166MHz) = 66MHz × 2.5:

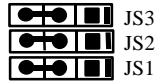




K6 - 200 (200MHz) = 66MHz × 3:



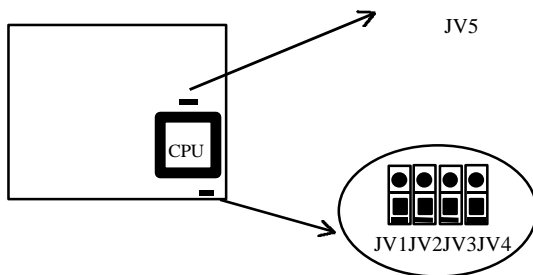
K6 - 233 (233MHz) = 66MHz × 3.5:



CPU Type & Voltage Selection

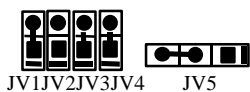


Jumper Configuration

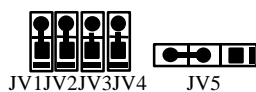


For single voltage CPU (Intel Pentium Processor):

3.3V Voltage



3.5V Voltage



For dual voltage CPU (Pentium Processor with MMX™ Technology):

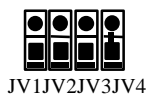
I/O voltage selection:

3.3V I/O voltage

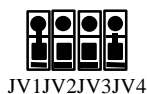


Core voltage selection:

2.8V core voltage



2.9V core voltage

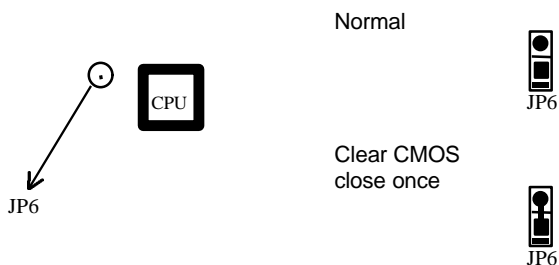


3.2V core voltage



Clear CMOS





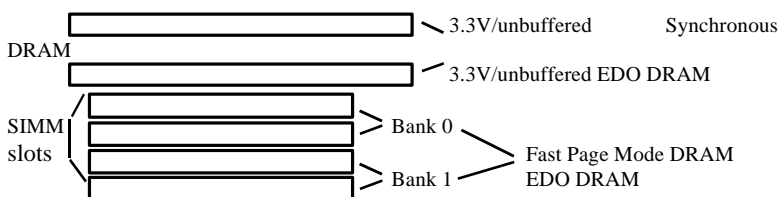
****Note: Power down the AC Supply (110/220V) when wanting to clear CMOS.**

"*" : Represents default jumper settings.

Memory Configuration

The TX Baby AT mainboard provides 4 SIMM slots and 2 DIMM slots for providing a flexible memory size from 8MB up to 256MB main memory. Please do not plug in two different brands of SIMMs on a bank simultaneously.

This mainboard supports 72-pin SIMM of 4MB, 8MB, 16MB, 32MB or 64MB. The DRAM can be 60ns/70ns Fast Page mode of EDO DRAM. SIMMs must be installed in pairs so that each bank contains two of the same size memory modules. Two slots support 3.3V Synchronous DRAM (SDRAM) or 3.3V unbuffered EDO DIMM of 8MB, 16MB, 32MB, 64MB.



If using DIMM together with SIMM, refer to the following table:

DIMM1	DIMM2	SIMM1 & 2	SIMM3 & 4
None	Don't care	Single-row or Double row SIMM	Don't care
Single-row DIMM	Don't care	Single-row SIMM	Don't care

Jumper Configuration

Double-row DIMM	Don't care	None	Don't care
-----------------	------------	------	------------

If using DIMM or SIMM only, refer to the following table:

Total Memory	SIMM1 & 2	SIMM3 & 4	DIMM1	DIMM2
8 MB	4 MB × 2	----	----	----
	----	----	8 MB	----
16 MB	8 MB × 2	----	----	----
	4 MB × 2	4 MB × 2	----	----
	----	----	16 MB	----
	----	----	8 MB	8 MB
24 MB	8 MB × 2	4 MB × 2	----	----
32 MB	8 MB × 2	8 MB × 2	----	----
	16 MB × 2	----	----	----
	----	----	16 MB	16 MB
	----	----	32 MB	----
48 MB	16 MB × 2	8 MB × 2	----	----
	----	----	32 MB	16 MB
64 MB	16 MB × 2	16 MB × 2	----	----
	32 MB × 2	----	----	----
	----	----	32MB	32MB
72 MB	32 MB × 2	4 MB × 2	----	----
80 MB	32 MB × 2	8 MB × 2	----	----
96 MB	32 MB × 2	16 MB × 2	----	----
128 MB	32 MB × 2	32 MB × 2	----	----
256 MB	64 MB × 2	64 MB × 2	----	----

*** Remark:**

1. If DIMM1 and/or DIMM2 has 64MB or 128MB DIMMs with 64 bit SDRAM cells, SIMM1, 2, 3 & 4 must be empty.
2. DRAM and SDRAM modules can be installed in a variety of configurations. Please note that not all possible combinations of installation are listed here.