



# Jumper Settings

Jumper Table

## Jumper Table Summary of AP5T-2

### Setting the CPU Voltage

#### Jumper Settings

JP7	CPU Core Voltage(Vcore)	JP8	I/O Voltage (Vio)
1-2	3.45V (P54C or IDT C6)	1-2	3.45V (default)
3-4	3.52V (Cyrix or AMD K5)	3-4	3.52V
5-6	2.9V (AMD K6-166/200 & Cyrix M2)		
7-8	2.8V (PP/MT P55C)		
9-10	3.2V (AMD K6-233)		
11-12	2.5V		
JP9	JP10	CPU Type (Vcpuio)	
1-2 & 3-4	Open	Single Voltage CPU, Vcpuio = Vcore, (default).	
Open	1-2 & 3-4	Dual Voltage CPU, Vcpuio = Vio, (PP/MT P55C, K6, 6x86L and M2).	



**Warning:** The heat dissipation of Intel PP/MT-233MHz, AMD K6-200/233MHz exceed the original design of this motherboard. Please make sure that you have installed CPU fan properly if Intel PP/MT-233 or AMD K6-200/233 is being selected to use. It may cause your system unstable if you can not meet the heat dissipation requirement from above CPU type. It is recommended to adopt larger fan on these CPU for better air flow in the system.

CPU Type	Vcore	Vio	Vcpuio	JP7	JP8	JP9	JP10
INTEL P54C	3.45V	3.45V	Vcore	1-2	1-2	1-2 & 3-4	Open
INTEL PP/MT	2.8V	3.45V	Vio	7-8	1-2	Open	1-2 & 3-4
AMD K5	3.52V	3.45V	Vcore	3-4	1-2	1-2 & 3-4	Open
AMD K6-166/200	2.9V	3.45V	Vio	5-6	1-2	Open	1-2 & 3-4
AMD K6-233	3.2V	3.45V	Vio	9-10	1-2	Open	1-2 & 3-4
Cyrix 6x86	3.52V	3.45V	Vcore	3-4	1-2	1-2 & 3-4	Open
Cyrix 6x86L	2.8V	3.45V	Vio	7-8	1-2	Open	1-2 & 3-4
Cyrix M2	2.9V	3.45V	Vio	5-6	1-2	Open	1-2 & 3-4
IDT C6	3.45V	3.45V	Vcore	1-2	1-2	1-2 & 3-4	Open

#### Selecting the CPU Frequency

JP1	JP2	CPU FrequencyRatio	JP5	JP3	JP4	CPU ExternalClock
1-2	1-2	1.5x (3.5x)	1-2	2-3	2-3	60MHz
2-3	1-2	2x	1-2	2-3	1-2	66MHz
2-3	2-3	2.5x (1.75x)	2-3	2-3	2-3	75MHz
1-2	2-3	3x	2-3	2-3	1-2	83.3MHz



**Note:** JP5 is used to select 75MHz and 83.3MHz, it is implemented from AP5T-2. For AP5T-1, just ignore JP5.  
**Note:** Intel PP/MT 233MHz is using 1.5x jumper setting for 3.5x frequency ratio, and AMD PR166 is using 2.5x setting for 1.75x frequency ratio.

INTEL Pentium	CPU Core Frequency	Ratio	External Bus Clock	JP1 & JP2	JP5 & JP3 & JP4
P54C 90	90MHz =	1.5x	60MHz	1-2 & 1-2	1-2 & 1-2 & 2-3
P54C 100	100MHz =	1.5x	66MHz	1-2 & 1-2	1-2 & 2-3 & 1-2
P54C 120	120MHz =	2x	60MHz	2-3 & 1-2	1-2 & 1-2 & 2-3
P54C 133	133MHz =	2x	66MHz	2-3 & 1-2	1-2 & 2-3 & 1-2
P54C 150	150MHz =	2.5x	60MHz	2-3 & 2-3	1-2 & 1-2 & 2-3
P54C 166	166MHz =	2.5x	66MHz	2-3 & 2-3	1-2 & 2-3 & 1-2
P54C 200	200MHz =	3x	66MHz	1-2 & 2-3	1-2 & 2-3 & 1-2
INTEL Pentium	CPU Core Frequency	Ratio	External Bus Clock	JP1 & JP2	JP5 & JP3 & JP4
PP/MT 150	150MHz =	2.5x	60MHz	2-3 & 2-3	1-2 & 1-2 & 2-3
PP/MT 166	166MHz =	2.5x	66MHz	2-3 & 2-3	1-2 & 2-3 & 1-2
PP/MT 200	200MHz =	3x	66MHz	1-2 & 2-3	1-2 & 2-3 & 1-2
PP/MT 233	233MHz =	3.5x	66MHz	1-2 & 1-2	1-2 & 2-3 & 1-2
Cyrix 6x86 & 6x86L	CPU Core Frequency	Ratio	External Bus Clock	JP1 & JP2	JP5 & JP3 & JP4
P150+	120MHz =	2x	60MHz	2-3 & 1-2	1-2 & 1-2 & 2-3
P166+	133MHz =	2x	66MHz	2-3 & 1-2	1-2 & 2-3 & 1-2
AMD K5	CPU Core Frequency	Ratio	External Bus Clock	JP1 & JP2	JP5 & JP3 & JP4

PR90	90MHz =	1.5x	60MHz	1-2 & 1-2	1-2 & 1-2 & 2-3
PR100	100MHz =	1.5x	66MHz	1-2 & 1-2	1-2 & 2-3 & 1-2
PR120	90MHz =	1.5x	60MHz	1-2 & 1-2	1-2 & 1-2 & 2-3
PR133	100MHz =	1.5x	66MHz	1-2 & 1-2	1-2 & 2-3 & 1-2
PR166	116MHz =	1.75x	66MHz	2-3 & 2-3	1-2 & 2-3 & 1-2
<b>AMD K6</b>	<b>CPU Core Frequency</b>	<b>Ratio</b>	<b>External Bus Clock</b>	<b>JP1 &amp; JP2</b>	<b>JP5 &amp; JP3 &amp; JP4</b>
PR2-166	166MHz =	2.5x	66MHz	2-3 & 2-3	1-2 & 2-3 & 1-2
PR2-200	200MHz =	3x	66MHz	1-2 & 2-3	1-2 & 2-3 & 1-2
PR2-233	233MHz =	3.5x	66MHz	1-2 & 1-2	1-2 & 2-3 & 1-2
<b>Cyrix M2</b>	<b>CPU Core Frequency</b>	<b>Ratio</b>	<b>External Bus Clock</b>	<b>JP1 &amp; JP2</b>	<b>JP5 &amp; JP3 &amp; JP4</b>
MX-PR166	150MHz =	2.5x	60MHz	2-3 & 2-3	1-2 & 1-2 & 2-3
MX-PR200	166MHz =	2.5x	66MHz	2-3 & 2-3	1-2 & 2-3 & 1-2
MX-PR233	200MHz =	3x	66MHz	1-2 & 2-3	1-2 & 2-3 & 1-2
MX-PR266	233MHz =	3.5x	66MHz	1-2 & 1-2	1-2 & 2-3 & 1-2
<b>IDT WinChip C6</b>	<b>CPU Core Frequency</b>	<b>Ratio</b>	<b>External Bus Clock</b>	<b>JP1 &amp; JP2</b>	<b>JP5 &amp; JP3 &amp; JP4</b>
C6-180	150MHz =	2x	75MHz	2-3 & 1-2	2-3 & 1-2 & 2-3
C6-180	180MHz =	3x	60MHz	1-2 & 2-3	1-2 & 1-2 & 2-3
C6-200	200MHz =	3x	66MHz	1-2 & 2-3	1-2 & 2-3 & 1-2
C6-225	225MHz =	3x	75MHz	1-2 & 2-3	2-3 & 1-2 & 2-3

#### Disabling the Onboard Super I/O

<b>JP18</b>	<b>Onboard Super I/O</b>
1-2	Enable (default)
2-3	Disable

#### Disabling the PS/2 Mouse

<b>JP20</b>	<b>PS/2 Mouse</b>
1-2	Enable (default)
2-3	Disable

#### Clear CMOS

<b>JP14</b>	<b>Clear CMOS</b>
1-2	Normal operation (default)
2-3	Clear CMOS

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