



# Jumper Settings

Jumper Table

## Jumper Table Summary of AP5VM CPU Voltage Select

### Jumper Settings

<b>JP13</b>	<b>CPU Core Voltage (Vcore)</b>	<b>JP18</b>	<b>I/O Voltage (Vio)</b>
1-2	3.52V (Cyrix or AMD K5)	1-2	3.45V (default)
3-4	3.45V (Intel P54C or IDT C6)	3-4	3.52V
5-6	2.9V (AMD K6-166/200 or Cyrix M2)		
7-8	2.8V (MMX P55C)		
9-10	2.7V		
11-12	2.52V		
<b>JP11</b>	<b>JP12</b>	<b>JP14</b>	<b>CPU Type (Vcpuio)</b>
Short	Short	Open	Single Voltage CPU , Vcpuio = Vcore (default)
Open	Open	Short	Dual Voltage CPU , Vcpuio = Vio



**Warning:** The heat dissipation of Intel PP/MT-233Hz, 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	JP11	JP12	JP13	JP14	JP18
Intel P54C	3.45V	3.45V	Vcore	Short	Short	3-4	Open	1-2
Intel MMX (P55C)	2.8V	3.45V	Vio	Open	Open	7-8	Short	1-2
AMD K5 (Single voltage)	3.52V	3.45V	Vcore	Short	Short	1-2	Open	1-2
Cyrix 6x86	3.52V	3.45V	Vcore	Short	Short	1-2	Open	1-2
Cyrix 6x86L	2.8V	3.45V	Vio	Open	Open	7-8	Short	1-2
Cyrix M2	2.9V	3.45V	Vio	Open	Open	5-6	Short	1-2

### CPU Frequency Select

JP16	JP17	CPU Frequency Ratio	JP3	JP4	CPU External Clock
2-3	2-3	1.5x (3.5x)	2-3	2-3	50MHz
2-3	1-2	2x	2-3	1-2	60MHz
1-2	1-2	2.5x (1.75x)	1-2	2-3	66MHz
1-2	2-3	3x			
Intel Pentium	CPU Core Frequency	Ratio	External Bus Clock	JP16 & JP17	JP3 & JP4
P54C 75	75MHz =	1.5x	50MHz	2-3 & 2-3	2-3 & 2-3
P54C 90	90MHz =	1.5x	60MHz	2-3 & 2-3	2-3 & 1-2
P54C 100	100MHz =	1.5x	66MHz	2-3 & 2-3	1-2 & 2-3
P54C 120	120MHz =	2x	60MHz	2-3 & 1-2	2-3 & 1-2
P54C 133	133MHz =	2x	66MHz	2-3 & 1-2	1-2 & 2-3
P54C 150	150MHz =	2.5x	60MHz	1-2 & 1-2	2-3 & 1-2
P54C 166	166MHz =	2.5x	66MHz	1-2 & 1-2	1-2 & 2-3
P54C 200	200MHz =	3x	66MHz	1-2 & 2-3	1-2 & 2-3
Intel Pentium	CPU Core Frequency	Ratio	External Bus Clock	JP16 & JP17	JP3 & JP4
PP/MT 150 (P55C)	150MHz =	2.5x	60MHz	1-2 & 1-2	2-3 & 1-2
PP/MT 166 (P55C)	166MHz =	2.5x	66MHz	1-2 & 1-2	1-2 & 2-3
PP/MT 200 (P55C)	200MHz =	3x	66MHz	1-2 & 2-3	1-2 & 2-3
Cyrix 6x86	CPU Core Frequency	Ratio	External Bus Clock	JP16 & JP17	JP3 & JP4
P120+	100MHz =	2x	50MHz	2-3 & 1-2	2-3 & 2-3
P150+	120MHz =	2x	60MHz	2-3 & 1-2	2-3 & 1-2
P166+	133MHz =	2x	66MHz	2-3 & 1-2	1-2 & 2-3
Cyrix M2	CPU Core Frequency	Ratio	External Bus Clock	JP16 & JP17	JP3 & JP4
MX-PR166	150MHz =	2.5x	60MHz	1-2 & 1-2	2-3 & 1-2
MX-PR200	166MHz =	2.5x	66MHz	1-2 & 1-2	1-2 & 2-3
MX-PR233	200MHz =	3x	66MHz	1-2 & 2-3	1-2 & 2-3
AMD K5	CPU Core Frequency	Ratio	External Bus Clock	JP16 & JP17	JP3 & JP4
PR90	90MHz =	1.5x	60MHz	2-3 & 2-3	2-3 & 1-2

AMD K6	CPU Core Frequency	Ratio	External Bus Clock	JP16 & JP17	JP3 & JP4
PR100	100MHz =	1.5x	66MHz	2-3 & 2-3	1-2 & 2-3
PR120	90MHz =	1.5x	60MHz	2-3 & 2-3	2-3 & 1-2
PR133	100MHz =	1.5x	66MHz	2-3 & 2-3	1-2 & 2-3
PR166	116MHz =	1.75x	66MHz	1-2 & 1-2	1-2 & 2-3
PR2-166	166MHz =	2.5x	66MHz	1-2 & 1-2	1-2 & 2-3
PR2-200	200MHz =	3x	66MHz	1-2 & 2-3	1-2 & 2-3
C6-180	180MHz =	3x	60MHz	1-2 & 2-3	2-3 & 1-2
C6-200	200MHz =	3x	66MHz	1-2 & 2-3	1-2 & 2-3

#### Enable/Disable Onboard Super I/O Controller

JP10	Onboard Super I/O
1-2	Enabled (default)
2-3	Disabled

#### Enable/Disable PS/2 Mouse Function

JP9	PS/2 Mouse
1-2	Enabled (default)
2-3	Disabled

#### Clearing CMOS

JP5	Normal operation (default)
1-2	Clear CMOS
2-3	Clear CMOS

#### V SDRAM Type Select

JP7	JP8	Type
1-2 & 3-4	Open	Regular
Open	1-2 & 3-4	Vio

#### Flash ROM

JP6	Flash ROM
1-2	12V
2-3	5V

#### ECP/EPP

JP1	JP2	ECP/EPP
2-3	2-3	DMA1
1-2	1-2	DMA3

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