

R542 Jumper Setting

R-542 CPU Jumper Setting Quick Reference

CPU type		CPU Power Voltage				System Clock		CPU Speed		
		I/O	Core	JP6	JP12	MHz	JP2,JP3,JP4	Ratio	JP8,JP9,	
Intel	P54C-90	3.4v				60		3/2		
	P54C-120							2/1		
	P54C-150	3.5v						5/2		
	P54C-180							3/1		
	P54C-100	3.4v				66		3/2		
	P54C-133							2/1		
	P54C-166	3.5v						5/2		
	P54C-200							3/1		
	P55C(MMX) -166	3.4v	2.8v				66		5/2	
	P55C(MMX) -200								3/1	
	P55C(MMX) -233								7/2	
Cyrix & IBM	6x86 -PR133	3.5v				55		2/1		
	6x86 -PR150					60				
	6x86 -PR166					66				
	6x86 -PR200					75				
	6x86L -PR166	3.4v	2.8v			66		2/1		
	6x86L -PR200					75				
	Cyrix & IBM 6x86 MX (M2)	PR166.	3.4v	2.9v			60		5/2	
		PR200					66		5/2	
PR200		75		2/1						
PR233		66		3/1						

	PR233					/5		5/2	
	PR266					66		7/2	
	PR266					75		3/1	
AMD 5k86	P90	3.4v				60		3/2	
	P100					66			5/2
	P166								
AMD K6	PR166	3.4v	2.9v			66		5/2	
	PR200							3/1	
	PR233	3.4v	3.2v						7/2

CPU Speed Configuration : “O”=Open, “S”=Short.

Freq ratio	JP8	JP9	System freq(MHz)	JP4	JP3	JP2
1.5	O	O	55	O	S	S
2	O	S	60	O	O	S
2.5	S	S	66	O	O	O
3	S	O	75	S	S	O
3.5	O	O	83**	S	O	S

* CPU Speed = (Frequency ratio) x (System Frequency).

** PCI has a maximum bandwidth of 33MB --- one half of the 66MHz System

Frequency. The 83MHz System Frequency are not supported by the Intel TX

Chipset & current PCI Rev.2.1 Specification.

CPU Voltage Configuration :

a. For Single Power CPU. (Intel 54C, Cyrix 6x86, IBM 6x86, AMD 5k86)

CPU Power Voltage		JP6	JP12
I/O	Core		
3.4V		Short	Pin 3,4 short
3.5V		Short	Pin 1,2 short

b. For Dual Power CPU. (Intel 55C-MMX, Cyrix 6x86L/6x86MX(M2)

IBM 6x86L/6x86MX(M2), AMD K6)

CPU Power Voltage	JP6	JP12
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I/O	Core		
3.4V	3.2V	Open	Pin 5,6 short
3.4V	2.9V	Open	Pin 7,8 short
3.4V	2.8V	Open	Pin 9,10 short
3.4V	2.5V	Open	Pin 11,12 short

DIMM Voltage Select : JP1

DIMM Type	JP1 Setting
3.3v DIMM	Pin 5,6 & 7,8 Short
5v DIMM	Pin 1,2 & 3,4 Short

Memory Module Installing Table

A. For EDO and FPM SIMM or DIMM Module

The DIMM sockets (DIM 1, DIM 2, DIM 3) can be used either:

Mode 1: +5V FPM(Fast Page Mode) or +5V EDO (Extended Data Mode)

SIMM Module or DIMM Module. (FPM and EDO SIMM Module or DIMM Module can be used concurrently.)

Bank 1 SIM 1 & SIM 2	Bank 1 DIMM 1	Bank 2 DIMM 2	Bank 3 DIMM 3	JP1 Setting
4MB or 8MB or 16MB or 32MB	-	-	-	Pin 1,2 & 3,4 Short
4MB or 8MB or 16MB or 32MB	-	8 MB or 16 MB or 32MB	-	
4MB or 8MB or 16MB or 32MB	-	-	8 MB or 16 MB or 32MB	
4MB or 8MB or 16MB or 32MB	-	8 MB or 16 MB or 32MB	8 MB or 16 MB or 32MB	
-	8 MB or 16 MB or 32MB	-	-	
-	8 MB or 16 MB	8 MB or 16 MB	-	
-	8 MB or 16 MB	8 MB or 16 MB	-	

	or 32MB	or 32MB	
-	8 MB or 16 MB or 32MB	-	8 MB or 16 MB or 32MB
-	8 MB or 16 MB or 32MB	8 MB or 16MB or 32MB	8 MB or 16 MB or 32MB

*If you want to use the on board VGA, the Bank 1 you must populated.

Mode 2: +3.3V EDO (Extended Data Mode) DIMM Module.

Bank 1 SIM 1 & SIM 2	DIMM 1	DIMM 2	DIMM 3	JP1 Setting
-	8 MB or 16MB or 32MB or 64MB	-	-	Pin 5,6 & 7,8 Short
-	8 MB or 16MB or 32MB or 64MB	8 MB or 16 MB or 32MB or 64MB	-	
-	8 MB or 16MB or 32MB or 64MB	-	8 MB or 16 MB or 32MB or 64MB	
-	8 MB or 16 MB or 32MB or 64MB	8 MB or 16 MB or 32MB or 64MB	8 MB or 16MB or 32MB or 64MB	

* If you want to use the on board VGA, the Bank 1 you must populated.

B. For SDRAM DIMM Module.

If Synchronous DRAM Mode(SDRAM) DIMM Module is used, however, only SDRAM DIMM Module can be used in any of DIMM sockets

(DIM 1, DIM 2, DIM 3)

Mode 3: +3.3V SDRAM DIMM Module.

Bank 1 SIM 1 & SIM 2	DIMM 1	DIMM 2	DIMM 3	JP1 Setting
-	8 MB or 16MB or 32MB or 64MB	-	-	Pin 5,6 & 7,8 Short
-	8 MB or 16MB or 32MB or 64MB	8 MB or 16 MB or 32MB or 64MB	-	
-	8 MB or 16MB	-	8 MB or 16 MB	

	or 32MB or 64MB		or 32MB or 64MB
-	8 MB or 16 MB	8 MB or 16 MB	8 MB or 16MB
	or 32MB or 64MB	or 32MB or 64MB	or 32MB or 64MB

* If you want to use the on board VGA, the Bank 1 you must populated.

CMOS Clear Jumper : JP18.

Function	JP18
Normal Operation (default)	1-2 Close
Clear CMOS data	2-3 Close

Flash EPROM Selector : JP16, JP17.

Flash ROM Type	JP16	JP17
(a) 1M/12V Flash ROM	2-3	2-3
(b) 1M/5V Flash ROM	1-2	2-3