

# Biostar MB-8500TTD

## JP3 CMOS Function Selection

JP3	Assignment
1-2 closed	Normal Operation
2-3 closed	Clear CMOS Data
1-3 open	Onboard Battery Disabled

## JP7 & JP8 CPU Voltage Selection

CPU TYPE	JP7	JP8	CPU Voltage	
			CORE	I/O
<b>Single Voltage</b> <b>INTEL™</b> P54C/CQS/CT <b>Cyrix 6x86</b> <b>AMD K5</b> <b>IDT-WinChip™</b>	1-2 open 3-4 open 5-6 closed	1-2 closed 3-4 closed 5-6 closed	3.5V	3.5V
<b>Dual Voltage</b> <b>INTEL™</b> P55C/MMX <b>Cyrix™</b> 6x86L / 6x86MX <b>AMD™</b> K6	1-2 open 3-4 open 5-6 open 7-8 Closed*	1-2 open 3-4 open 5-6 open	2.1V	3.4V
	1-2 closed 3-4 open 5-6 open 7-8 closed*	1-2 open 3-4 open 5-6 open	2.2V	3.4V
	1-2 open 3-4 open 5-6 open 7-8 open*	1-2 open 3-4 open 5-6 open	2.8V	3.4V
	1-2 closed 3-4 open 5-6 open 7-8 open*	1-2 open 3-4 open 5-6 open	2.9V	3.4V
	1-2 open 3-4 closed 5-6 open 7-8 open*	1-2 open 3-4 open 5-6 open	3.2	3.4V
*JP7 (pin 7 & 8) depend on actual parts which installed on the board				

## JP11 & JP9 CPU Clock Selection

* JP11 (1-2) open & JP11 (3-4) open & JP11 (5-6) closed: Bus Clock = 60MHz * JP11 (1-2) closed & JP11 (3-4) open & JP11 (5-6) closed: Bus Clock = 66MHz	* JP9 (1-2) open & JP9 (3-4) open: Multiplier = 1.5 * JP9 (1-2) closed & JP9 (3-4) open: Multiplier = 2 * JP9 (1-2) closed & JP9 (3-4) closed: Multiplier = 2.5 * JP9 (1-2) open & JP9 (3-4) closed: Multiplier = 3 * JP9 (1-2) open & JP9 (3-4) open: Multiplier = 3.5
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## INTEL™ CPU

CPU Speed	Bus Clock & Multiplier	JP11 (1-2)	JP11 (3-4)	JP11 (5-6)	JP9 (1-2)	JP9 (3-4)	JP9 (5-6)*
90MHz	60MHz x 1.5	open	closed	closed	open	open	open
100MHz	66MHz x 1.5	closed	open	closed	open	open	open
120MHz	60MHz x 2	open	closed	closed	closed	open	open
133MHz	66MHz x 2	closed	open	closed	closed	open	open
150MHz	60MHz x 2.5	open	closed	closed	closed	closed	open
166MHz	66MHz x 2.5	closed	open	closed	closed	closed	open
200MHz	66Hz x 3	closed	open	closed	open	closed	open
233MHz	66MHz x 3.5	closed	open	closed	open	open	open

## Cyrix™ 6x86 / 6x86L CPU

CPU Speed	Bus Clock & Multiplier	JP11 (1-2)	JP11 (3-4)	JP11 (5-6)	JP9 (1-2)	JP9 (3-4)	JP9 (5-6)*
PR-133+ 110MHz	55MHz x 2	closed	closed	open	closed	open	open
PR-150+ 120MHz	60MHz x 2	open	closed	closed	closed	open	open
PR-166+ 133MHz	66MHz x 2	closed	open	closed	closed	open	open
PR-200+ 150MHz	75MHz x 2	open	closed	open	closed	open	open

## AMD-K5 CPU

CPU Speed	JP11 (1-2)	JP11 (3-4)	JP11 (5-6)	JP9 (1-2)	JP9 (3-4)	JP9 (5-6)*
PR-90	open	closed	closed	open	open	open
PR-100	closed	open	closed	open	open	open
PR-120	open	closed	closed	closed	open	open
PR-133	closed	open	closed	closed	open	open
PR-166	closed	open	closed	closed	closed	open
PR-200	closed	open	closed	open	closed	open

## AMD-K6 CPU

CPU Speed	JP11 (1-2)	JP11 (3-4)	JP11 (5-6)	JP9 (1-2)	JP9 (3-4)	JP9 (5-6)*
166MHZ	closed	open	closed	closed	closed	open
200MHZ	closed	open	closed	open	closed	open
233MHZ	closed	open	closed	open	open	open
266MHZ	closed	open	closed	closed	open	closed
300MHZ	closed	open	closed	closed	closed	closed

## IDT-WinChip™

CPU Speed	JP11 (1-2)	JP11 (3-4)	JP11 (5-6)	JP9 (1-2)	JP9 (3-4)	JP9 (5-6)*
180MHZ	open	closed	closed	open	closed	open
200MHZ	closed	open	closed	open	closed	open

\* JP9 (pin 5 & 6) depend on actual parts which installed on the board

## J15 Front Panel Connectors

Pin No.	Assignment	Function	Pin No.	Assignment	Function
1	Speaker	Speaker Connector	14	+5V	VCC Ground
2	NC		15	Ground	
3	Ground		16	No Connection	NC
4	+5V		17	Green Control	Green Switch
5	Power LED (+)	Power LED & Key lock	18	Ground	
6	No Connection		19	No Connection	NC
7	Ground		20	HDD LED (-)	HDD LED
8	Key lock		21	HDD LED (+)	
9	Ground		22	+5V	IrDA Connector
10	Power Switch	ATX Power Button	23	No Connection	
11	Standby Voltage		24	IRRXX	
12	Reset Control	Reset	25	Ground	
13	ground		26	IRTX	

## J2 PS/2 Mouse Cable Connector

Pin No.	Assignment
1	Mouse Data
2	No Connection
3	Ground
4	+5V
5	Mouse Clock

## J13 U.S.B Connector

Pin No.	Assignment	Pin No.	Assignment
A1	+5V	B5	No Connection
A2	Port 1 Negative Data	B4	Ground
A3	Port 1 Positive Data	B3	Port 2 Positive Data
A4	Ground	B2	Port 2 Negative
A5	No Connection	B1	+5V

# DRAM Installation

## SIMM

DRAM AccessTime: fast page mode 70ns, EDO mode 60ns.

DRAM Type: 4MB/8MB/16MB/32MB SIMM Module (72pin)

Total Memory Size (MB)	Bank 0	Bank 1
	SIMM1-SIMM2	SIMM3-SIMM4
8M	4M x 2 pcs	----
16M	8M x 2 pcs	----
32M	16M x 2 pcs	----
64M	32M x 2 pcs	----
16M	4M x 2 pcs	4M x 2 pcs
24M	8M x 2 pcs	4M x 2 pcs
40M	16M x 2 pcs	4M x 2 pcs
72M	32M x 2 pcs	4M x 2 pcs
24M	4M x 2 pcs	8M x 2 pcs
32M	8M x 2 pcs	8M x 2 pcs
48M	16M x 2 pcs	8M x 2 pcs
80M	32M x 2 pcs	8M x 2 pcs
40M	4M x 2 pcs	16M x 2 pcs
48M	8M x 2 pcs	16M x 2 pcs
64M	16M x 2 pcs	16M x 2 pcs
96M	32M x 2 pcs	16M x 2 pcs
72M	4M x 2 pcs	32M x 2 pcs
80M	8M x 2 pcs	32M x 2 pcs
96M	16M x 2 pcs	32M x 2 pcs
128M	32M x 2 pcs	32M x 2 pcs

\* SIM1-SIM2 (Bank1) & DIMM2 (Bank1) cannot install simultaneously

## DIMM

DRAM Access Time: 3.3V Unbuffered SDRAM 15ns required.

DRAM Type: 8MB/16MB/32MB/64MB DIMM Module (168pin)

Total Memory Size (MB)	Bank 0	Bank 1
	DIMM 1	DIMM 2
8	8M x 1 pc	----
16	16M x 1 pc	----
32	32M x 1 pc	----
64	64M x 1 pc	----
16	8M x 1 pc	8M x 1 pc
24	16M x 1 pc	8M x 1 pc
40	32M x 1 pc	8M x 1 pc
72	64M x 1 pc	8M x 1 pc
24	8M x 1 pc	16M x 1 pc
32	16M x 1 pc	16M x 1 pc
48	32M x 1 pc	16M x 1 pc
80	64M x 1 pc	16M x 1 pc
40	8M x 1 pc	32M x 1 pc
48	16M x 1 pc	32M x 1 pc
64	32M x 1 pc	32M x 1 pc
96	64M x 1 pc	32M x 1 pc
72	8M x 1 pc	64M x 1 pc
80	16M x 1 pc	64M x 1 pc
96	32M x 1 pc	64M x 1 pc
128	64M x 1 pc	64M x 1 pc

\* Each Bank can be installed and worked individually, the main board provides optimal performance and free choices depending on your needs.