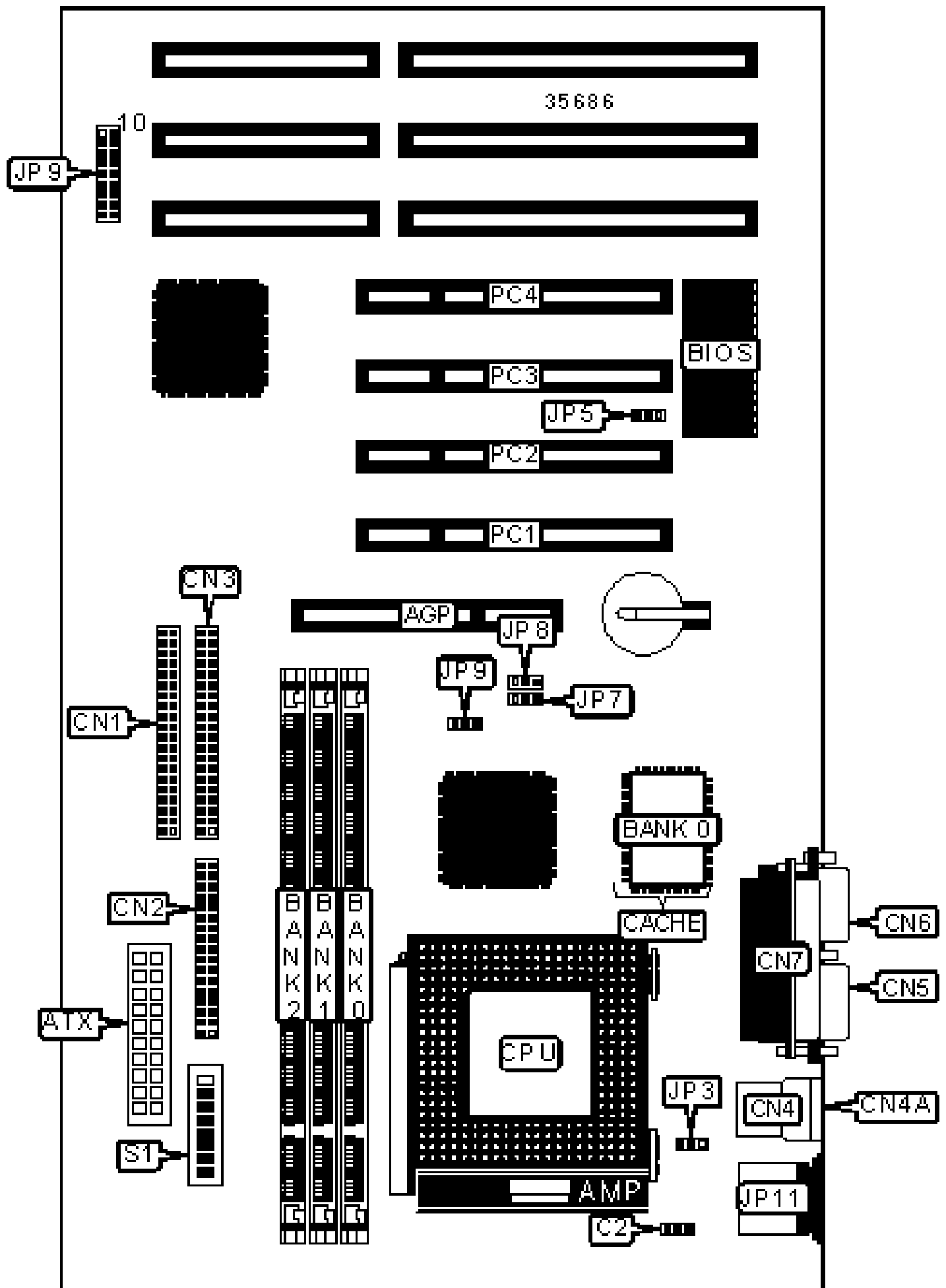


GIGA-BYTE TECHNOLOGY CO., LTD.

GA-5AX (REV. 3.0)

Configuration



CONNECTIONS

Purpose	Location	Purpose	Location
AGP slot	AGP	Wake on LAN connector	JP5
ATX power connector	ATX	Green PC LED	JP9/pins 1 & 10
CPU fan power	C2	Reset switch	JP9/pins 2 & 3
IDE interface 1	CN1	Speaker	JP9/pins 4 - 7
Floppy drive interface	CN2	IDE interface LED	JP9/pins 8 & 17
IDE interface 2	CN3	Green PC connector	JP9/pins 9 & 18
USB connector 1	CN4	Soft off power supply	JP9/pins 12 & 13
USB connector 2	CN4A	Power LED	JP9/pins 14 - 16
Serial port 2	CN5	PS/2 mouse port	JP11
Serial port 1	CN6	32-bit PCI slots	PC1 – PC4
Parallel port	CN7		

USER CONFIGURABLE SETTINGS

Function	Label	Position
Keyboard power on enabled	JP3	Pins 1 & 2 closed
Keyboard power on disabled	JP3	Pins 2 & 3 closed

DIMM CONFIGURATION

Size	Bank 0	Bank 1	Bank 2
8MB	(1) 1M x 64	None	None
16MB	(1) 2M x 64	None	None
16MB	(1) 1M x 64	(1) 1M x 64	None
24MB	(1) 2M x 64	(1) 1M x 64	None
24MB	(1) 1M x 64	(1) 1M x 64	(1) 1M x 64

32MB	(1) 4M x 64	None	None
32MB	(1) 2M x 64	(1) 1M x 64	(1) 1M x 64
32MB	(1) 2M x 64	(1) 2M x 64	None
40MB	(1) 4M x 64	(1) 1M x 64	None
40MB	(1) 2M x 64	(1) 2M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 1M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 2M x 64	None
48MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
56MB	(1) 4M x 64	(1) 2M x 64	(1) 1M x 64
64MB	(1) 8M x 64	None	None

DIMM CONFIGURATION (CON'T)

Size	Bank 0	Bank 1	Bank 2
64MB	(1) 4M x 64	(1) 2M x 64	(1) 2M x 64
64MB	(1) 4M x 64	(1) 4M x 64	None
72MB	(1) 8M x 64	(1) 1M x 64	None
72MB	(1) 4M x 64	(1) 4M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 1M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 2M x 64	None
80MB	(1) 4M x 64	(1) 4M x 64	(1) 2M x 64
88MB	(1) 8M x 64	(1) 2M x 64	(1) 1M x 64
96MB	(1) 8M x 64	(1) 2M x 64	(1) 2M x 64
96MB	(1) 8M x 64	(1) 4M x 64	None
96MB	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64
104MB	(1) 8M x 64	(1) 4M x 64	(1) 1M x 64
112MB	(1) 8M x 64	(1) 4M x 64	(1) 2M x 64

128MB	(1) 16M x 64	None	None
128MB	(1) 8M x 64	(1) 4M x 64	(1) 4M x 64
128MB	(1) 8M x 64	(1) 8M x 64	None
136MB	(1) 16M x 64	(1) 1M x 64	None
136MB	(1) 8M x 64	(1) 8M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 1M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 2M x 64	None
144MB	(1) 8M x 64	(1) 8M x 64	(1) 2M x 64
152MB	(1) 16M x 64	(1) 2M x 64	(1) 1M x 64
160MB	(1) 16M x 64	(1) 2M x 64	(1) 2M x 64
160MB	(1) 16M x 64	(1) 4M x 64	None
160MB	(1) 8M x 64	(1) 8M x 64	(1) 4M x 64
168MB	(1) 16M x 64	(1) 4M x 64	(1) 1M x 64
176MB	(1) 16M x 64	(1) 4M x 64	(1) 2M x 64
192MB	(1) 16M x 64	(1) 4M x 64	(1) 4M x 64
192MB	(1) 16M x 64	(1) 8M x 64	None
192MB	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64
200MB	(1) 16M x 64	(1) 8M x 64	(1) 1M x 64
208MB	(1) 16M x 64	(1) 8M x 64	(1) 2M x 64
224MB	(1) 16M x 64	(1) 8M x 64	(1) 4M x 64
256MB	(1) 32M x 64	None	None

DIMM CONFIGURATION (CON'T)

Size	Bank 0	Bank 1	Bank 2
256MB	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64
264MB	(1) 32M x 64	(1) 1M x 64	None

272MB	(1) 32M x 64	(1) 1M x 64	(1) 1M x 64
272MB	(1) 32M x 64	(1) 2M x 64	None
288MB	(1) 32M x 64	(1) 2M x 64	(1) 2M x 64
288MB	(1) 32M x 64	(1) 4M x 64	None
320MB	(1) 32M x 64	(1) 4M x 64	(1) 4M x 64
320MB	(1) 32M x 64	(1) 8M x 64	None
384MB	(1) 32M x 64	(1) 8M x 64	(1) 8M x 64
384MB	(1) 32M x 64	(1) 16M x 64	None
384MB	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64
384MB	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64
512MB	(1) 32M x 64	(1) 16M x 64	(1) 16M x 64
512MB	(1) 32M x 64	(1) 32M x 64	None
768MB	(1) 32M x 64	(1) 32M x 64	(1) 32M x 64

Note: Board accepts SDRAM memory.

CACHE CONFIGURATION

Size	Bank 0
512KB	(1) 64K x 64

CPU SPEED SELECTION (CX 6X86)

CPU speed	Clock speed	Multiplier	S1/2	S1/3	S1/8
200MHz	75MHz	2x	On	Off	Off

CPU SPEED SELECTION (CX 6X86, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	S1/1
200MHz	75MHz	2x	1 & 2	2 & 3	2 & 3	On

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (IBM 6X86)

CPU speed	Clock speed	Multiplier	S1/2	S1/3	S1/8
200MHz	75MHz	2x	On	Off	Off

CPU SPEED SELECTION (IBM 6X86, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	S1/1
200MHz	75MHz	2x	1 & 2	2 & 3	2 & 3	On

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX 6X86L)

CPU speed	Clock speed	Multiplier	S1/2	S1/3	S1/8
166MHz	66MHz	2x	On	Off	Off

CPU SPEED SELECTION (CX 6X86L, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	S1/1
166MHz	66MHz	2x	2 & 3	2 & 3	2 & 3	Off

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (IBM 6X86L)

CPU speed	Clock speed	Multiplier	S1/2	S1/3	S1/8
166MHz	66MHz	2x	On	Off	Off

CPU SPEED SELECTION (IBM, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	S1/1
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166MHz	66MHz	2x	2 & 3	2 & 3	2 & 3	Off
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (CX 6X86MX)					
CPU speed	Clock speed	Multiplier	S1/2	S1/3	S1/8
166MHz	66MHz	2x	On	Off	Off
200MHz	75MHz	2x	On	Off	Off
200MHz	66MHz	2.5x	On	On	Off
233MHz	66MHz	3x	Off	On	Off
233MHz	75MHz	2.5x	On	On	Off
233MHz	83MHz	2x	On	Off	Off
266MHz	66MHz	3.5x	Off	Off	Off
266MHz	75MHz	3x	Off	On	Off
266MHz	83MHz	2.5x	On	On	Off

CPU SPEED SELECTION (CX 6X86MX, CON'T)						
CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	S1/1
166MHz	66MHz	2x	2 & 3	2 & 3	2 & 3	Off
200MHz	75MHz	2x	1 & 2	2 & 3	2 & 3	On
200MHz	66MHz	2.5x	2 & 3	2 & 3	2 & 3	Off
233MHz	66MHz	3x	2 & 3	2 & 3	2 & 3	Off
233MHz	75MHz	2.5x	1 & 2	2 & 3	2 & 3	On
233MHz	83MHz	2x	1 & 2	2 & 3	2 & 3	Off
266MHz	66MHz	3.5x	2 & 3	2 & 3	2 & 3	Off
266MHz	75MHz	3x	1 & 2	2 & 3	2 & 3	On
266MHz	83MHz	2.5x	1 & 2	2 & 3	2 & 3	Off

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (IBM 6X86MX)

CPU speed	Clock speed	Multiplier	S1/2	S1/3	S1/8
166MHz	66MHz	2x	On	Off	Off
200MHz	75MHz	2x	On	Off	Off
200MHz	66MHz	2.5x	On	On	Off
233MHz	66MHz	3x	Off	On	Off
233MHz	75MHz	2.5x	On	On	Off
233MHz	83MHz	2x	On	Off	Off
266MHz	66MHz	3.5x	Off	Off	Off
266MHz	75MHz	3x	Off	On	Off
266MHz	83MHz	2.5x	On	On	Off

CPU SPEED SELECTION (IBM 6X86MX, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	S1/1
166MHz	66MHz	2x	2 & 3	2 & 3	2 & 3	Off
200MHz	75MHz	2x	1 & 2	2 & 3	2 & 3	On
200MHz	66MHz	2.5x	2 & 3	2 & 3	2 & 3	Off
233MHz	66MHz	3x	2 & 3	2 & 3	2 & 3	Off
233MHz	75MHz	2.5x	1 & 2	2 & 3	2 & 3	On
233MHz	83MHz	2x	1 & 2	2 & 3	2 & 3	Off
266MHz	66MHz	3.5x	2 & 3	2 & 3	2 & 3	Off
266MHz	75MHz	3x	1 & 2	2 & 3	2 & 3	On
266MHz	83MHz	2.5x	1 & 2	2 & 3	2 & 3	Off

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX M II)

CPU speed	Clock speed	Multiplier	S1/2	S1/3	S1/8
300MHz	66MHz	3.5x	Off	Off	Off

CPU SPEED SELECTION (CX M II, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	S1/1
300MHz	66MHz	3.5x	2 & 3	2 & 3	2 & 3	Off

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (IDT C6)

CPU speed	Clock speed	Multiplier	S1/2	S1/3	S1/8
200MHz	66MHz	3x	Off	On	Off
225MHz	75MHz	3x	Off	On	Off
266MHz	66MHz	4x	On	Off	On

CPU SPEED SELECTION (IDT C6, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	S1/1
200MHz	66MHz	3x	2 & 3	2 & 3	2 & 3	Off
225MHz	75MHz	3x	1 & 2	2 & 3	2 & 3	On
266MHz	66MHz	4x	2 & 3	2 & 3	2 & 3	Off

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K5)

CPU speed	Clock speed	Multiplier	S1/2	S1/3	S1/8
133MHz	66MHz	2x	On	Off	Off

166MHz	66MHz	2.5x	On	On	Off
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CPU SPEED SELECTION (AM K5, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	S1/1
133MHz	66MHz	2x	2 & 3	2 & 3	2 & 3	Off
166MHz	66MHz	2.5x	2 & 3	2 & 3	2 & 3	Off

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K6)

CPU speed	Clock speed	Multiplier	S1/2	S1/3	S1/8
166MHz	66MHz	2.5x	On	On	Off
200MHz	66MHz	3x	Off	On	Off
233MHz	66MHz	3.5x	Off	Off	Off
266MHz	66MHz	4x	On	Off	On
266MHz	100MHz	2.5x	On	On	Off
300MHz	66MHz	4.5x	On	On	On
300MHz	100MHz	3x	Off	On	Off

CPU SPEED SELECTION (AM K6, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	S1/1
166MHz	66MHz	2.5x	2 & 3	2 & 3	2 & 3	Off
200MHz	66MHz	3x	2 & 3	2 & 3	2 & 3	Off
233MHz	66MHz	3.5x	2 & 3	2 & 3	2 & 3	Off
266MHz	66MHz	4x	2 & 3	2 & 3	2 & 3	Off
266MHz	100MHz	2.5x	1 & 2	1 & 2	2 & 3	Off
300MHz	66MHz	4.5x	2 & 3	2 & 3	2 & 3	Off

300MHz	100MHz	3x	1 & 2	1 & 2	2 & 3	Off
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (AM K6-2)					
CPU speed	Clock speed	Multiplier	S1/2	S1/3	S1/8
233MHz	95MHz	3.5x	Off	Off	Off
266MHz	66MHz	4x	On	Off	On
300MHz	100MHz	3x	Off	On	Off

CPU SPEED SELECTION (AM K6-2, CON'T)						
CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	S1/1
233MHz	95MHz	3.5x	1 & 2	1 & 2	2 & 3	On
266MHz	66MHz	4x	2 & 3	2 & 3	2 & 3	Off
300MHz	100MHz	3x	1 & 2	1 & 2	2 & 3	Off
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (INTEL)					
CPU speed	Clock speed	Multiplier	S1/2	S1/3	S1/8
100MHz	66MHz	1.5x	Off	Off	Off
133MHz	66MHz	2x	On	Off	Off
166MHz	66MHz	2.5x	On	On	Off
200MHz	66MHz	3x	Off	On	Off

CPU SPEED SELECTION (INTEL, CON'T)						
CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	S1/1
100MHz	66MHz	1.5x	2 & 3	2 & 3	2 & 3	Off

133MHz	66MHz	2x	2 & 3	2 & 3	2 & 3	Off
166MHz	66MHz	2.5x	2 & 3	2 & 3	2 & 3	Off
200MHz	66MHz	3x	2 & 3	2 & 3	2 & 3	Off

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (INTEL MMX)

CPU speed	Clock speed	Multiplier	S1/2	S1/3	S1/8
166MHz	66MHz	2.5x	On	On	Off
200MHz	66MHz	3x	Off	On	Off
233MHz	66MHz	3.5x	Off	Off	Off

CPU SPEED SELECTION (INTEL MMX, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	S1/1
166MHz	66MHz	2.5x	2 & 3	2 & 3	2 & 3	Off
200MHz	66MHz	3x	2 & 3	2 & 3	2 & 3	Off
233MHz	66MHz	3.5x	2 & 3	2 & 3	2 & 3	Off

Note: Pins designated should be in the closed position.

CPU VOLTAGE SELECTION

Voltage	S1/4	S1/5	S1/6	S1/7
Auto	Off	Off	Off	On
2.0	Off	Off	Off	Off
2.1	Off	Off	On	Off
2.2	Off	On	Off	Off
2.3	Off	On	On	Off
2.4	On	Off	Off	Off

2.5	On	Off	On	Off
2.6	On	On	Off	Off
2.7	On	On	On	Off
2.8	Off	Off	Off	On
2.9	Off	Off	On	On
3.0	Off	On	Off	On
3.1	Off	On	On	On
3.2	On	Off	Off	On
3.3	On	Off	On	On
3.4	On	On	Off	On
3.5	On	On	On	On