GEMLIGHT COMPUTER, INC.

GMB-P58VPS (VER. 1.00)

Configuration
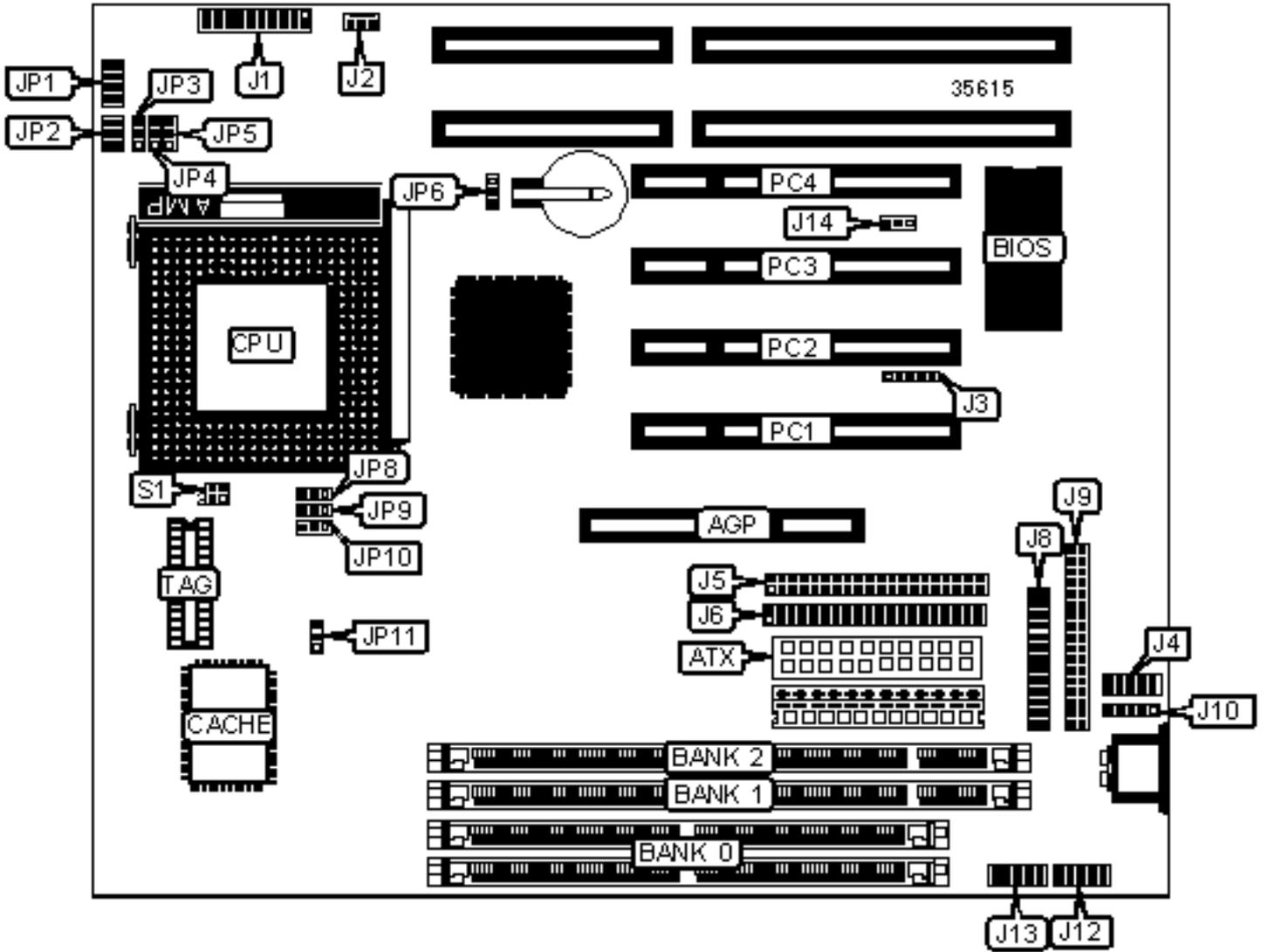
CONNECTIONS

Purpose	Location	Purpose	Location
AGP slot	AGP	USB connector	J4
ATX power connector	ATX	IDE interface 1	J5
IDE interface LED	J1/pins 1 & 2	IDE interface 2	J6
Green PC LED	J1/pins 3 & 4	Parallel port	J8
Soft off power supply	J1/pins 5 & 6	Floppy drive interface	J9
Reset switch	J1/pins 9 & 10	PS/2 mouse connector	J10
Power LED & keylock	J1/pins 11 - 15	Serial port 1	J12
Speaker	J1/pins 17 - 20	Serial port 2	J13
CPU fan power	J2	Wake on LAN connector	J14
IR connector	J3	32-bit PCI slots	PC1 - PC4

USER CONFIGURABLE SETTINGS

	Function	Label	Position
»	CMOS memory normal operation	JP6	Pins 1 & 2 closed
	CMOS memory clear	JP6	Pins 2 & 3 closed

SIMM CONFIGURATION

Size	Bank 0	Bank 1
8MB	(2) 1M x 36	None
16MB	(2) 2M x 36	None
16MB	(2) 1M x 36	(2) 1M x 36
24MB	(2) 2M x 36	(2) 1M x 36
32MB	(2) 4M x 36	None
32MB	(2) 2M x 36	(2) 2M x 36

40MB	(2) 4M x 36	(2) 1M x 36
48MB	(2) 4M x 36	(2) 2M x 36
64MB	(2) 8M x 36	None
64MB	(2) 4M x 36	(2) 4M x 36
72MB	(2) 8M x 36	(2) 1M x 36
80MB	(2) 8M x 36	(2) 2M x 36
96MB	(2) 8M x 36	(2) 4M x 36
128MB	(2) 8M x 36	(2) 8M x 36

DIMM CONFIGURATION		
Size	Bank 0	Bank 1
8MB	(1) 1M x 64	None
16MB	(1) 2M x 64	None
16MB	(1) 1M x 64	(1) 1M x 64
24MB	(1) 2M x 64	(1) 1M x 64
32MB	(1) 4M x 64	None
32MB	(1) 2M x 64	(1) 2M x 64
40MB	(1) 4M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 2M x 64
64MB	(1) 8M x 64	None
64MB	(1) 4M x 64	(1) 4M x 64
72MB	(1) 8M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 2M x 64
96MB	(1) 8M x 64	(1) 4M x 64
128MB	(1) 16M x 64	None
128MB	(1) 8M x 64	(1) 8M x 64

136MB	(1) 16M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 2M x 64
160MB	(1) 16M x 64	(1) 4M x 64
192MB	(1) 16M x 64	(1) 8M x 64
256MB	(1) 16M x 64	(1) 16M x 64

SDRAM SPEED CONFIGURATION					
Bus speed	DRAM speed	JP3	JP4	JP5	JP11
60MHz	60MHz	Open	2 & 3	2 & 3	1 & 2
66MHz	66MHz	Open	2 & 3	2 & 3	1 & 2
75MHz	60MHz	1 & 2	2 & 3	2 & 3	2 & 3
75MHz	75MHz	2 & 3	1 & 2	1 & 2	1 & 2
83MHz	66MHz	1 & 2	1 & 2	1 & 2	2 & 3
83MHz	83MHz	2 & 3	2 & 3	1 & 2	1 & 2
95MHz	93MHz	1 & 2	1 & 2	1 & 2	2 & 3
95MHz	95MHz	2 & 3	2 & 3	1 & 2	1 & 2
100MHz	66MHz	1 & 2	1 & 2	1 & 2	2 & 3
100MHz	100MHz	2 & 3	2 & 3	1 & 2	1 & 2

CPU SPEED SELECTION (INTEL)						
CPU speed	Clock speed	Multiplier	JP2	JP8	JP9	JP10
90MHz	60MHz	1.5x	Open	2 & 3	2 & 3	2 & 3
100MHz	66MHz	1.5x	Open	1 & 2	2 & 3	2 & 3
120MHz	60MHz	2x	1 & 2	2 & 3	2 & 3	2 & 3
133MHz	66MHz	2x	1 & 2	1 & 2	2 & 3	2 & 3
150MHz	60MHz	2.5x	1 & 2, 3 & 4	2 & 3	2 & 3	2 & 3

166MHz	66MHz	2.5x	1 & 2, 3 & 4	1 & 2	2 & 3	2 & 3
200MHz	66MHz	3x	3 & 4	1 & 2	2 & 3	2 & 3
Note: Pins designated are in the closed position.						

CPU SPEED SELECTION (INTEL MMX)

CPU speed	Clock speed	Multiplier	JP2	JP8	JP9	JP10
166MHz	66MHz	2.5x	1 & 2, 3 & 4	1 & 2	2 & 3	2 & 3
200MHz	66MHz	3x	3 & 4	1 & 2	2 & 3	2 & 3
233MHz	66MHz	3.5x	Open	1 & 2	2 & 3	2 & 3
Note: Pins designated are in the closed position.						

CPU SPEED SELECTION (AM K5)

CPU speed	Clock speed	Multiplier	JP2	JP8	JP9	JP10
120MHz	60MHz	2x	1 & 2	2 & 3	2 & 3	2 & 3
133MHz	66MHz	2x	1 & 2	1 & 2	2 & 3	2 & 3
166MHz	66MHz	2.5x	1 & 2, 3 & 4	1 & 2	2 & 3	2 & 3
Note: Pins designated are in the closed position.						

CPU SPEED SELECTION (AM K6)

CPU speed	Clock speed	Multiplier	JP2	JP8	JP9	JP10
166MHz	66MHz	2.5x	1 & 2, 3 & 4	1 & 2	2 & 3	2 & 3
200MHz	66MHz	3x	3 & 4	1 & 2	2 & 3	2 & 3
233MHz	66MHz	3.5x	Open	1 & 2	2 & 3	2 & 3
266MHz	66MHz	4x	1 & 2, 5 & 6	1 & 2	2 & 3	2 & 3
300MHz	66MHz	4.5x	1 & 2, 3 & 4, 5 & 6	1 & 2	2 & 3	2 & 3
Note: Pins designated are in the closed position.						

CPU SPEED SELECTION (AM K6-2)

CPU speed	Clock speed	Multiplier	JP2	JP8	JP9	JP10
250MHz	100MHz	2.5x	1 & 2, 3 & 4	1 & 2	1 & 2	1 & 2
266MHz	66MHz	4x	1 & 2, 5 & 6	1 & 2	2 & 3	2 & 3
300MHz	100MHz	3x	3 & 4	1 & 2	1 & 2	1 & 2
333MHz	95MHz	3.5x	Open	2 & 3	1 & 2	1 & 2
350MHz	100MHz	3.5x	Open	1 & 2	1 & 2	1 & 2
Note: Pins designated are in the closed position.						

CPU SPEED SELECTION (CX 6X86L)

CPU speed	Clock speed	Multiplier	JP2	JP8	JP9	JP10
150MHz	60MHz	2x	1 & 2	2 & 3	2 & 3	2 & 3
166MHz	66MHz	2x	1 & 2	1 & 2	2 & 3	2 & 3
200MHz	75MHz	2x	1 & 2	1 & 2	1 & 2	2 & 3
Note: Pins designated are in the closed position.						

CPU SPEED SELECTION (CX 6X86MX)

CPU speed	Clock speed	Multiplier	JP2	JP8	JP9	JP10
166MHz	60MHz	2.5x	1 & 2, 3 & 4	2 & 3	2 & 3	2 & 3
200MHz	75MHz	2x	1 & 2	1 & 2	1 & 2	2 & 3
200MHz	66MHz	2.5x	1 & 2, 3 & 4	1 & 2	2 & 3	2 & 3
233MHz	75MHz	2.5x	1 & 2, 3 & 4	1 & 2	1 & 2	2 & 3
233MHz	66MHz	3x	3 & 4	1 & 2	2 & 3	2 & 3
Note: Pins designated are in the closed position.						

CPU SPEED SELECTION (CX M II)

CPU speed	Clock speed	Multiplier	JP2	JP8	JP9	JP10
300MHz	75MHz	3x	3 & 4	1 & 2	1 & 2	2 & 3
300MHz	66MHz	3.5x	Open	1 & 2	2 & 3	2 & 3
333MHz	100MHz	2.5x	1 & 2, 3 & 4	1 & 2	1 & 2	1 & 2
350MHz	100MHz	3x	3 & 4	1 & 2	1 & 2	1 & 2

Note: Pins designated are in the closed position.

CPU SPEED SELECTION (IDT C6)

CPU speed	Clock speed	Multiplier	JP2	JP8	JP9	JP10
180MHz	60MHz	3x	3 & 4	2 & 3	2 & 3	2 & 3
200MHz	66MHz	3x	3 & 4	1 & 2	2 & 3	2 & 3

Note: Pins designated are in the closed position.

CPU SPEED SELECTION (IBM 6X86MX-PR266)

CPU speed	Clock speed	Multiplier	JP2	JP8	JP9	JP10
266MHz	208MHz	2.5x	1 & 2, 3 & 4	1 & 2	2 & 3	1 & 2

Note: Pins designated are in the closed position.

CPU VOLTAGE SELECTION (SINGLE)

Voltage	JP1	S1
3.3v	1 & 2, 3 & 4, 7 & 8	Open
3.5v	1 & 2, 3 & 4, 5 & 6, 7 & 8	Open

Not: Pins designated are in the closed position.

CPU VOLTAGE SELECTION (DUAL)

V I/O	V Core	JP1	S1
3.3v	2.2v	5 & 6	1 & 3, 2 & 4
3.3v	2.8v	1 & 2	1 & 3, 2 & 4
3.3v	2.9v	1 & 2, 7 & 8	1 & 3, 2 & 4
3.3v	3.2v	1 & 2, 3 & 4	1 & 3, 2 & 4
Not: Pins designated are in the closed position.			