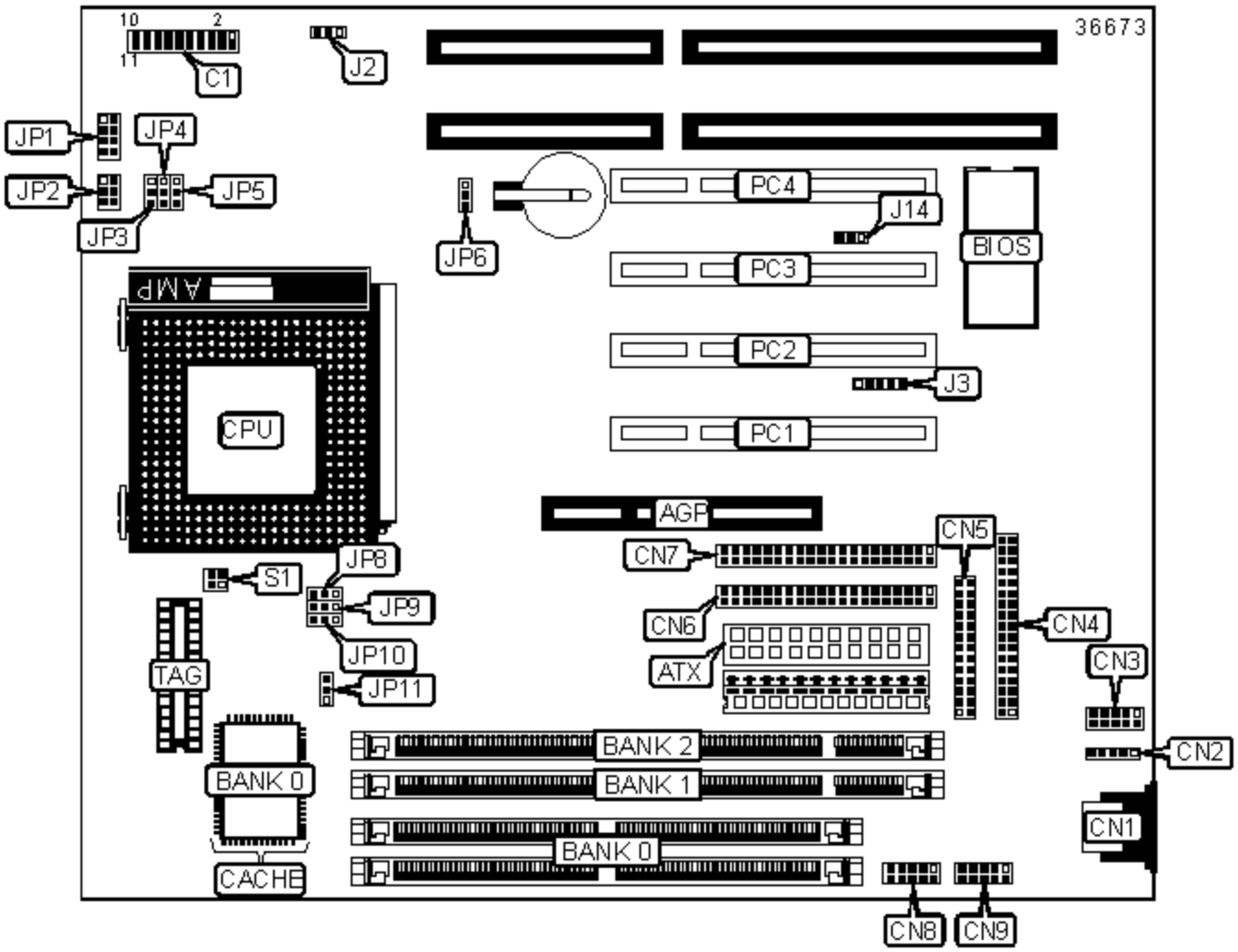
GEMLIGHT COMPUTER LTD.

GMB-P58VPS (VER. 1.20)

Device Type	Mainboard
Processor	CX 6X86L/CX 6X86MX/IBM 6X86MX/CX MII/IDT C6/AM K5/AM K6/AM K6-2/Pentium/Pentium MMX
Processor Speed	90/100/110/120/133/150/166/200/233/250/266/300/333/350/366/380/400MHz
Chip Set	VIA
Maximum Onboard Memory	384MB (EDO & SDRAM supported)
Cache	512KB
BIOS	Award
Dimensions	220mm x 230mm
I/O Options	32-bit PCI slots (4), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, PS/2 mouse interface, serial ports (2), IR connector, USB interface, ATX power connector, AGP slot, Wake-on-Modem connector



CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
AGP port	AGP	Floppy drive interface	CN4
ATX power connector	ATX	Parallel port	CN5
IDE interface LED	C1/Pins 1 & 2	IDE interface 2	CN6

Green PC LED	C1/Pins 3 & 4	IDE interface 1	CN7
Power switch	C1/Pins 5 & 6	Serial interface 1	CN8
Reset switch	C1/Pins 9 & 10	Serial interface 2	CN9
PC speaker	C1/Pins 11 - 14	CPU fan power connector	J2
Power LED & keylock	C1/Pins 16 - 20	IR connector	J3
PS/2 mouse port	CN1	Wake-on-Modem connector	J14
PS/2 mouse interface	CN2	32-bit PCI slots	PC1 - PC4
USB interface	CN3		

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**
8MB	(2) 1M x 36
16MB	(2) 2M x 36
32MB	(2) 4M x 36
64MB	(2) 8M x 36
128MB	(2) 16M x 36
Note: Board accepts EDO memory.	

DIMM CONFIGURATION		
Size	**Bank 0**	**Bank 1**
8MB	(1) 1M x 64	None
16MB	(1) 1M x 64	(1) 1M x 64
16MB	(1) 2M x 64	None

16MB	(1) 2M x 64	None
24MB	(1) 2M x 64	(1) 1M x 64
32MB	(1) 2M x 64	(1) 2M x 64
32MB	(1) 4M x 64	None
40MB	(1) 4M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 2M x 64
64MB	(1) 4M x 64	(1) 4M x 64
64MB	(1) 8M x 64	None
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) 8M x 64	(1) 8M x 64
128MB	(1) 16M x 64	None
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
Note: Board supports EDO & SDRAM memory.		

SDRAM SPEED SELECTION					
CPU Bus Speed	**DRAM Speed**	**JP3**	**JP4**	**JP5**	**JP11**
100MHz	100MHz	2 & 3	2 & 3	1 & 2	1 & 2
100MHz	66MHz	2 & 3	1 & 2	1 & 2	2 & 3
95MHz	95MHz	2 & 3	2 & 3	1 & 2	1 & 2
95MHz	63MHz	2 & 3	1 & 2	1 & 2	2 & 3
83MHz	83MHz	1 & 2	2 & 3	1 & 2	1 & 2
83MHz	66MHz	1 & 2	1 & 2	1 & 2	2 & 3

75MHz	75MHz	1 & 2	2 & 3	2 & 3	1 & 2
75MHz	60MHz	1 & 2	1 & 2	2 & 3	2 & 3
66MHz	66MHz	Open	2 & 3	2 & 3	1 & 2
60MHz	60MHz	Open	2 & 3	2 & 3	1 & 2

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (CX 6X86L)

CPU speed	Clock speed	Multiplier	JP2/1 & 2	JP2/3 & 4	JP2/5 & 6	JP8	JP9	JP10
150MHz	60MHz	2x	Closed	Open	Open	2 & 3	2 & 3	2 & 3
166MHz	66MHz	2x	Closed	Open	Open	1 & 2	2 & 3	2 & 3
200MHz	75MHz	2x	Closed	Open	Open	1 & 2	1 & 2	2 & 3

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (CX 6X86MX)

CPU speed	Clock speed	Multiplier	JP2/1 & 2	JP2/3 & 4	JP2/5 & 6	JP8	JP9	JP10
166Mhz	60MHz	2.5x	Closed	Closed	Open	2 & 3	2 & 3	2 & 3
200MHz	75MHz	2x	Closed	Open	Open	1 & 2	1 & 2	2 & 3
200MHz	66MHz	2.5x	Closed	Closed	Open	1 & 2	2 & 3	2 & 3
233MHz	75MHz	2.5x	Closed	Closed	Open	1 & 2	1 & 2	2 & 3
233MHz	66MHz	3x	Open	Closed	Open	1 & 2	2 & 3	2 & 3

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (CX MII)

CPU speed	Clock speed	Multiplier	JP2/1 & 2	JP2/3 & 4	JP2/5 & 6	JP8	JP9	JP10
300MHz	75MHz	3x	Open	Closed	Open	1 & 2	1 & 2	2 & 3
300MHz	66Mhz	3.5x	Open	Open	Open	1 & 2	2 & 3	2 & 3

333MHz	100MHz	2.5x	Closed	Closed	Open	1 & 2	1 & 2	1 & 2
333MHz	83MHz	3x	Open	Closed	Open	1 & 2	2 & 3	1 & 2
350MHz	100MHz	3x	Open	Closed	Open	1 & 2	1 & 2	1 & 2

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (IBM 6X86MX)

CPU speed	Clock speed	Multiplier	JP2/1 & 2	JP2/3 & 4	JP2/5 & 6	JP8	JP9	JP10
208MHz	83MHz	2.5x	Closed	Closed	Open	1 & 2	2 & 3	1 & 2

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (AM K5)

CPU speed	Clock speed	Multiplier	JP2/1 & 2	JP2/3 & 4	JP2/5 & 6	JP8	JP9	JP10
120MHz	60MHz	2x	Closed	Open	Open	2 & 3	2 & 3	2 & 3
133MHz	66MHz	2x	Closed	Open	Open	1 & 2	2 & 3	2 & 3
166MHz	66MHz	2.5x	Closed	Closed	Open	1 & 2	2 & 3	2 & 3

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (AM K6)

CPU speed	Clock speed	Multiplier	JP2/1 & 2	JP2/3 & 4	JP2/5 & 6	JP8	JP9	JP10
166MHz	66MHz	2.5x	Closed	Closed	Open	1 & 2	2 & 3	2 & 3
200MHz	66MHz	3x	Open	Closed	Open	1 & 2	2 & 3	2 & 3
233MHz	66MHz	3.5x	Open	Open	Open	1 & 2	2 & 3	2 & 3
266MHz	66MHz	4x	Closed	Open	Closed	1 & 2	2 & 3	2 & 3
300MHz	66MHz	4.5x	Closed	Closed	Closed	1 & 2	2 & 3	2 & 3

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (AM K6-2)								
CPU speed	**Clock speed**	**Multiplier**	**JP2/1 & 2**	**JP2/3 & 4**	**JP2/5 & 6**	**JP8**	**JP9**	**JP10**
250Mhz	100MHz	2.5x	Closed	Closed	Open	1 & 2	1 & 2	1 & 2
266MHz	66MHz	4x	Closed	Open	Closed	1 & 2	2 & 3	2 & 3
300MHz	100MHz	3x	Open	Closed	Open	1 & 2	1 & 2	1 & 2
333MHz	95MHz	3.5x	Open	Open	Open	2 & 3	1 & 2	1 & 2
350MHz	100MHz	3.5x	Open	Open	Open	1 & 2	1 & 2	1 & 2
366MHz	66MHz	5.5x	Open	Open	Closed	1 & 2	2 & 3	2 & 3
380MHz	95MHz	4x	Closed	Open	Closed	2 & 3	1 & 2	1 & 2
400MHz	100MHz	4x	Closed	Open	Closed	1 & 2	1 & 2	1 & 2
Note: Designated pins should be in the closed position.								

CPU SPEED SELECTION (IDT C6)								
CPU speed	**Clock speed**	**Multiplier**	**JP2/1 & 2**	**JP2/3 & 4**	**JP2/5 & 6**	**JP8**	**JP9**	**JP10**
180MHz	60MHz	3x	Open	Closed	Open	2 & 3	2 & 3	2 & 3
200MHz	66Mhz	3x	Open	Closed	Open	1 & 2	2 & 3	2 & 3
Note: Designated pins should be in the closed position.								

CPU SPEED SELECTION (PENTIUM)								
CPU speed	**Clock speed**	**Multiplier**	**JP2/1 & 2**	**JP2/3 & 4**	**JP2/5 & 6**	**JP8**	**JP9**	**JP10**
90MHz	60MHz	1.5x	Open	Open	Open	2 & 3	2 & 3	2 & 3
100MHz	66MHz	1.5x	Open	Open	Open	1 & 2	2 & 3	2 & 3
120MHz	60MHz	2x	Closed	Open	Open	2 & 3	2 & 3	2 & 3
133MHz	66MHz	2x	Closed	Open	Open	1 & 2	2 & 3	2 & 3
150MHz	60MHz	2.5x	Closed	Closed	Open	2 & 3	2 & 3	2 & 3
166MHz	66MHz	2.5x	Closed	Closed	Open	1 & 2	2 & 3	2 & 3

200MHz	66MHz	3x	Open	Closed	Open	1 & 2	2 & 3	2 & 3

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (PENTIUM MMX)

CPU speed	Clock speed	Multiplier	JP2/1 & 2	JP2/3 & 4	JP2/5 & 6	JP8	JP9	JP10
166MHz	66MHz	2.5x	Closed	Closed	Open	1 & 2	2 & 3	2 & 3
200MHz	66MHz	3x	Open	Closed	Open	1 & 2	2 & 3	2 & 3
233MH	66MHz	3.5x	Open	Open	Open	1 & 2	2 & 3	2 & 3

Note: Designated pins should be in the closed position.

CPU VOLTAGE SELECTION (SINGLE)

Voltage	JP1/Pins 1 & 2	JP1/Pins 3 & 4	JP1/Pins 5 & 6	JP1/Pins 7 & 8	S1/Pins 1 & 2	S1/Pins 3 & 4
3.3V	Closed	Closed	Open	Closed	Open	Open
3.5V	Closed	Closed	Closed	Closed	Open	Open

CPU VOLTAGE SELECTION (DUAL)

Voltage	JP1/Pins 1 & 2	JP1/Pins 3 & 4	JP1/Pins 5 & 6	JP1/Pins 7 & 8	S1/Pins 1 & 2	S1/Pins 3 & 4
3.3V/2.2V	Open	Open	Closed	Open	Closed	Closed
3.3V/2.8V	Closed	Open	Open	Open	Closed	Closed
3.3V/2.9V	Closed	Open	Open	Closed	Closed	Closed
3.3V/3.2V	Closed	Closed	Open	Open	Closed	Closed