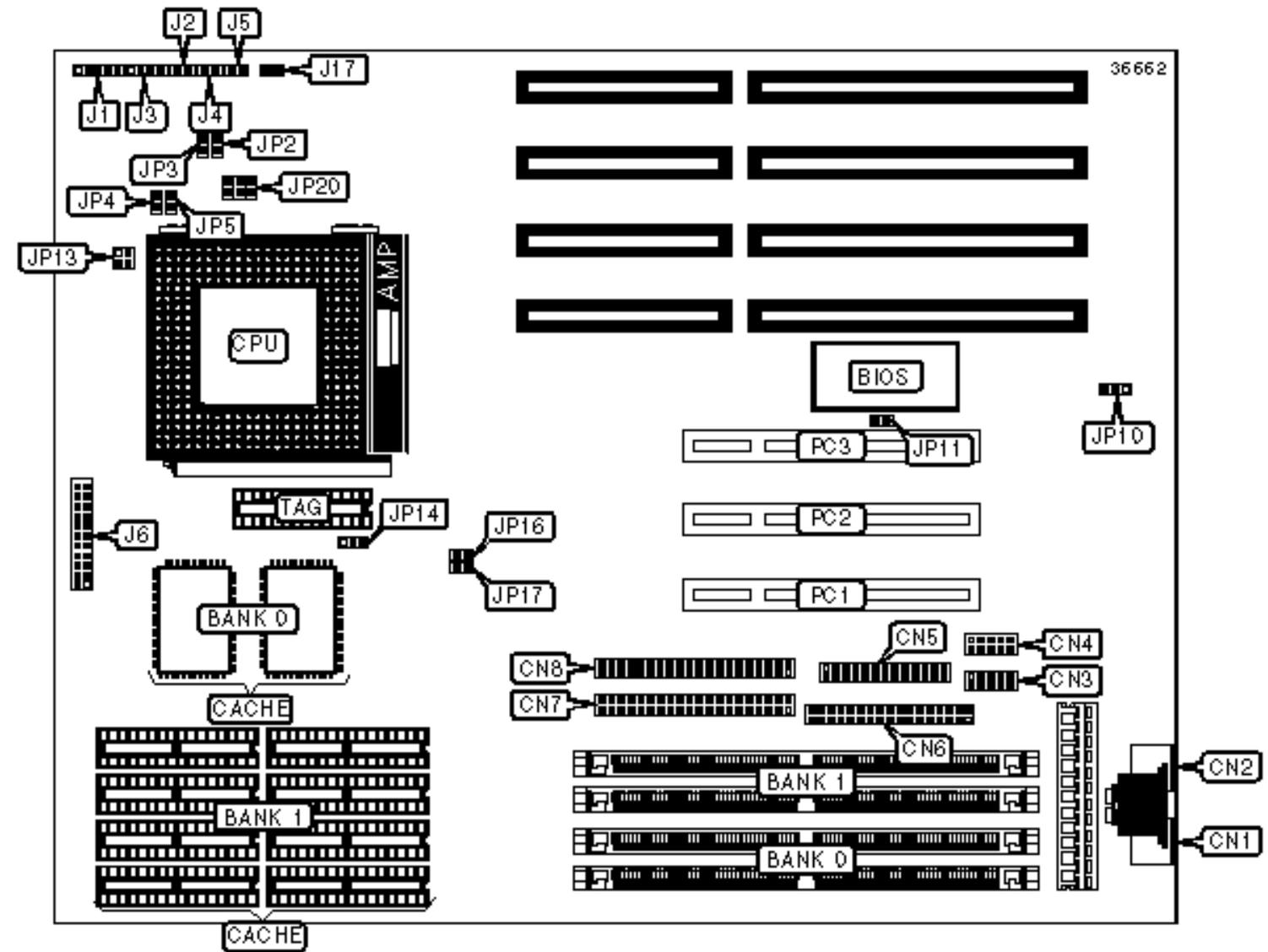


# GEMLIGHT COMPUTER LTD.

## GMB-P54IPS (VER. 2.30)

Device Type	Mainboard
Processor	CX 6X86/AM K5/Pentium
Processor Speed	75/83/90/100/110/120/133/150/166MHz
Chip Set	Intel 430FX
Maximum Onboard Memory	128MB (EDO supported)
Cache	256/512KB
BIOS	Award/AMI
Dimensions	220mm x 270mm
I/O Options	32-bit PCI slots (3), floppy drive interface, IDE interfaces (2), parallel interface, PS/2 mouse port, serial interfaces (2), cache slot, VRM connector, PS/2 keyboard port, Green PC connector



### CONNECTIONS

Purpose	Location	Purpose	Location
PS/2 mouse port	CN1	Power LED & Keylock	J1
PS/2 keyboard port	CN2	Turbo LED	J2

Serial interface 1	CN3	PC speaker	J3
Serial interface 2	CN4	IDE interface LED	J4
Parallel interface	CN5	Reset switch	J5
Floppy drive interface	CN6	VRM connector	J6
IDE interface 1	CN7	Green PC connector	J17
IDE interface 2	CN8	32-bit PCI slots	PC1 - PC3

<b>USER CONFIGURABLE SETTINGS</b>			
<b>Function</b>		<b>Label</b>	<b>Position</b>
	Flash BIOS voltage select 5V	JP10	Pins 2 & 3 closed
	Flash BIOS voltage select 12V	JP10	Pins 1 & 2 closed
»	CMOS memory normal operation	JP11	Open
	CMOS memory clear	JP11	Closed
	Cache size equals 256KB	JP14	Pins 2 & 3 closed
	Cache size equals 512KB	JP14	Pins 1 & 2 closed
»	Factory configured - do not alter	JP20	Unidentified

<b>SIMM CONFIGURATION</b>		
<b>Size</b>	<b>Bank 0</b>	<b>Bank 1</b>
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

<b>CACHE CONFIGURATION</b>			
<b>Size</b>	<b>Bank 0</b>	<b>Bank 1</b>	<b>TAG</b>
256KB	None	(8) 32K x 8	(1) 8K/16K x 8
256KB - Pipe Burst Mode	(2) 32K x 32/36	None	(1) 8K/16K x 8
512KB	None	(8) 64K x 8	(1) 16/32K x 8

<b>CPU SPEED SELECTION (INTEL)</b>				
<b>Speed</b>	<b>JP4</b>	<b>JP5</b>	<b>JP16</b>	<b>JP17</b>
75MHz	Open	Open	Closed	Closed
90MHz	Open	Open	Closed	Open
100MHz	Open	Open	Open	Closed
120MHz	Closed	Open	Closed	Open
133MHz	Closed	Open	Open	Closed
150MHz	Closed	Closed	Closed	Open
166MHz	Closed	Closed	Open	Closed

<b>CPU SPEED SELECTION (AM)</b>				
<b>Speed</b>	<b>JP4</b>	<b>JP5</b>	<b>JP16</b>	<b>JP17</b>
75MHz^	Closed	Open	Open	Closed
75MHz~	Open	Open	Closed	Closed

83MHz	Open	Open	Open	Open
90MHz	Open	Open	Closed	Open
100MHz*	Open	Open	Closed	Closed
100MHz+	Open	Open	Open	Open
100MHz#	Open	Open	Open	Closed
120MHz	Closed	Open	Closed	Open
133MHz	Closed	Open	Open	Closed
150MHz	Closed	Open	Closed	Open
166MHz	Closed	Open	Open	Closed

^Note: (AMD-SSA/5-66)  
~Note: (AMD-SSA/5-75)  
\*Note: (AMD-K5-75)  
+Note: (AMD-K5-83)  
#Note: (AMD-SSA/5-100)

#### CPU SPEED SELECTION (CX)

Speed	JP4	JP5	JP16	JP17
120MHz	Closed	Open	Closed	Closed
133MHz	Closed	Open	Open	Open
150MHz	Closed	Open	Closed	Open
166MHz	Closed	Open	Open	Closed

#### CPU VOLTAGE SELECTION (SINGLE)

Voltage	J6	JP2	JP3	JP13
3.4V	6 & 7, 21 & 22	Open	Closed	Open
3.5V	6 & 7, 21 & 22	Closed	Open	Open

Note: Designated pins should be in the closed position.

#### CPU VOLTAGE SELECTION (DUAL)

Voltage	Vcore	J6	JP2	JP3	JP13
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3.3V	2.5V	Open	Open	Closed	1 & 2, 3 & 4
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Note: Designated pins should be in the closed position.