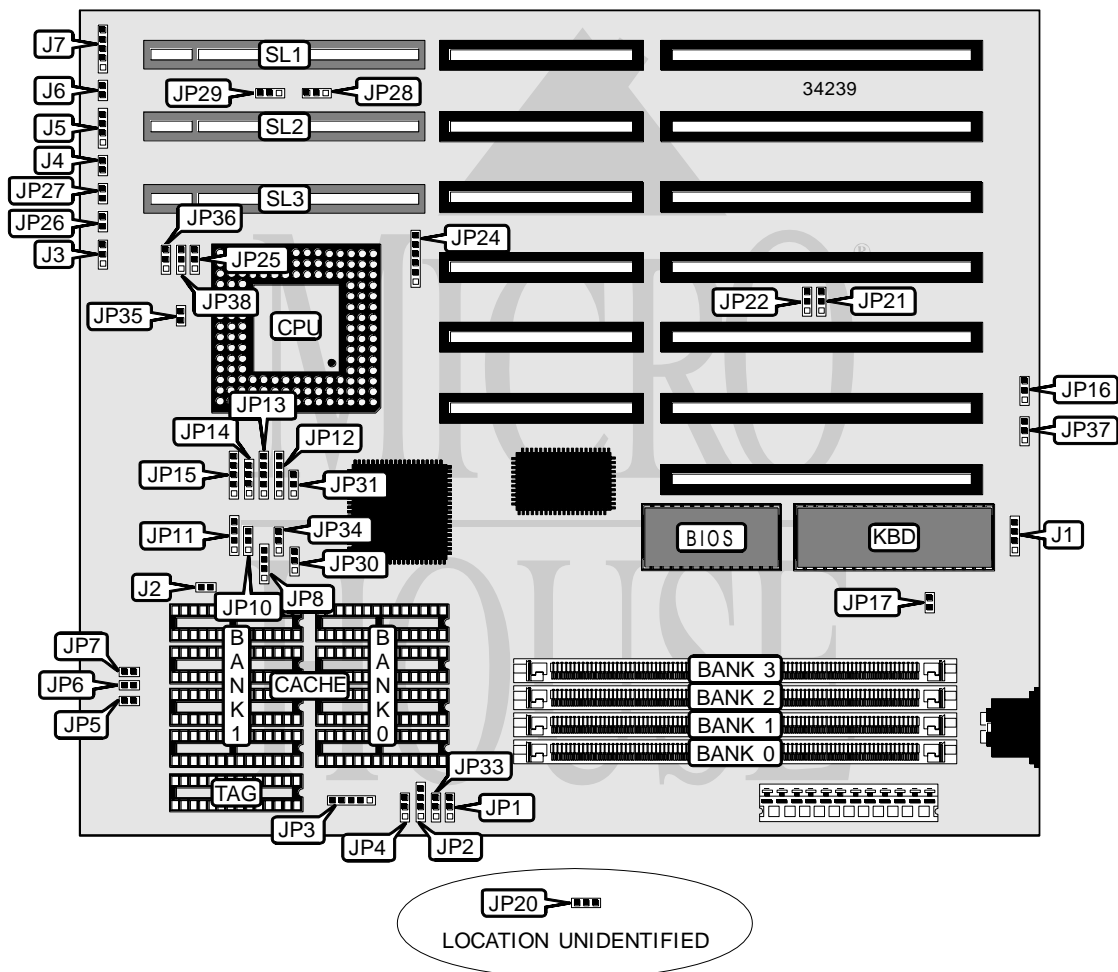


GEMLIGHT COMPUTER, LTD.

GMB-486SG (VER. 6.02)

Processor	CX486S/UMCU5/80486SX/SL80486SX/CX486DX/80486DX/ SL80486DX/CX486DX2/AM486DX2/(SL)AM486DX2/80486DX2/ SL80486DX2/AM486DX4/(SL)AM486DX4/80486DX4/P24D/P24T
Processor Speed	20/25/33/40/50(internal)/50/60/66(internal)/75(internal)/ 80(internal)/100(internal)MHz
Chip Set	Unidentified
Video Chip Set	None
Maximum Onboard Memory	128MB
Maximum Video Memory	None
Cache	128/256/512KB
BIOS	Award
Dimensions	250mm x 220mm
I/O Options	32-bit VESA local bus slots (3), green PC connector
NPU Options	None



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CONNECTIONS			
Purpose	Location	Purpose	Location
External battery	J1	Reset switch	J6
Green PC connector	J2	Power LED & keylock	J7
Turbo switch	J3	Green PC connector	JP26
Turbo LED	J4	Green PC LED	JP27
Speaker	J5	32-bit VESA local bus slots	SL1 – SL3

USER CONFIGURABLE SETTINGS		
Function	Label	Position
í Turbo enabled	J3	Pins 2 & 3 closed
Turbo disabled	J3	Pins 1 & 2 closed
í CMOS memory normal operation	JP16	Pins 1 & 2 closed
CMOS memory clear	JP16	Pins 2 & 3 closed
í Monitor type select monochrome/VGA/EGA	JP17	Open
Monitor type select EGA	JP17	Closed
í CLKIN delay for CPUCLK	JP20	Pins 2 & 3 closed
CLKIN & CPUCLK same phase	JP20	Pins 1 & 2 closed

DRAM CONFIGURATION				
Size	Bank 0	Bank 1	Bank 2	Bank 3
1MB	(1) 256K x 36	None	None	None
2MB	(1) 256K x 36	(1) 256K x 36	None	None
2MB	(1) 512K x 36	None	None	None
4MB	(1) 256K x 36	(1) 256K x 36	(1) 512K x 36	None
4MB	(1) 512K x 36	(1) 512K x 36	None	None
4MB	(1) 1M x 36	None	None	None
5MB	(1) 256K x 36	(1) 1M x 36	None	None
6MB	(1) 256K x 36	(1) 256K x 36	(1) 1M x 36	None
6MB	(1) 512K x 36	(1) 1M x 36	None	None
8MB	(1) 256K x 36	(1) 256K x 36	(1) 512K x 36	(1) 1M x 36
8MB	(1) 512K x 36	(1) 512K x 36	(1) 1M x 36	None
8MB	(1) 1M x 36	(1) 1M x 36	None	None
8MB	(1) 2M x 36	None	None	None
10MB	(1) 256K x 36	(1) 256K x 36	(1) 1M x 36	(1) 1M x 36
12MB	(1) 512K x 36	(1) 512K x 36	(1) 1M x 36	(1) 1M x 36
12MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36	None
12MB	(1) 1M x 36	(1) 2M x 36	None	None
16MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
16MB	(1) 2M x 36	(1) 2M x 36	None	None
16MB	(1) 4M x 36	None	None	None
16MB	(1) 1M x 36	(1) 1M x 36	(1) 2M x 36	None
17MB	(1) 256K x 36	(1) 4M x 36	None	None

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DRAM CONFIGURATION (CON'T)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
18MB	(1) 256K x 36	(1) 256K x 36	(1) 4M x 36	None
18MB	(1) 512K x 36	(1) 4M x 36	None	None
20MB	(1) 512K x 36	(1) 512K x 36	(1) 4M x 36	None
20MB	(1) 1M x 36	(1) 4M x 36	None	None
20MB	(1) 1M x 36	(1) 2M x 36	(1) 2M x 36	None
24MB	(1) 512K x 36	(1) 512K x 36	(1) 1M x 36	(1) 4M x 36
24MB	(1) 1M x 36	(1) 1M x 36	(1) 4M x 36	None
24MB	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36	None
24MB	(1) 1M x 36	(1) 1M x 36	(1) 2M x 36	(1) 2M x 36
24MB	(1) 2M x 36	(1) 4M x 36	None	None
28MB	(1) 1M x 36	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36
32MB	(1) 4M x 36	(1) 4M x 36	None	None
32MB	(1) 8M x 36	None	None	None
32MB	(1) 2M x 36	(1) 2M x 36	(1) 4M x 36	None
32MB	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36
36MB	(1) 512K x 36	(1) 512K x 36	(1) 4M x 36	(1) 4M x 36
36MB	(1) 1M x 36	(1) 4M x 36	(1) 4M x 36	None
36MB	(1) 1M x 36	(1) 8M x 36	None	None
40MB	(1) 1M x 36	(1) 1M x 36	(1) 4M x 36	(1) 4M x 36
40MB	(1) 1M x 36	(1) 1M x 36	(1) 8M x 36	None
40MB	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36	(1) 4M x 36
48MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	None
48MB	(1) 4M x 36	(1) 8M x 36	None	None
48MB	(1) 2M x 36	(1) 2M x 36	(1) 4M x 36	(1) 4M x 36
48MB	(1) 2M x 36	(1) 2M x 36	(1) 8M x 36	None
64MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
64MB	(1) 16M x 36	None	None	None
64MB	(1) 4M x 36	(1) 4M x 36	(1) 8M x 36	None
64MB	(1) 8M x 36	(1) 8M x 36	None	None
65MB	(1) 256K x 36	(1) 16M x 36	None	None
68MB	(1) 1M x 36	(1) 16M x 36	None	None
68MB	(1) 1M x 36	(1) 8M x 36	(1) 8M x 36	None
72MB	(1) 1M x 36	(1) 1M x 36	(1) 16M x 36	None
72MB	(1) 1M x 36	(1) 1M x 36	(1) 8M x 36	(1) 8M x 36
80MB	(1) 4M x 36	(1) 16M x 36	None	None
80MB	(1) 4M x 36	(1) 8M x 36	(1) 8M x 36	None
80MB	(1) 2M x 36	(1) 2M x 36	(1) 8M x 36	(1) 8M x 36
96MB	(1) 4M x 36	(1) 4M x 36	(1) 16M x 36	None
96MB	(1) 4M x 36	(1) 4M x 36	(1) 8M x 36	(1) 8M x 36
96MB	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36	None
128MB	(1) 16M x 36	(1) 16M x 36	None	None
128MB	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36

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CACHE CONFIGURATION			
Size	Bank 0	Bank 1	TAG
128KB	(4) 32K x 8	None	(1) 8K x 8
256KB (A)	(4) 32K x 8	(4) 32K x 8	(1) 16K/32K x 8
256KB (B)	(4) 64K x 8	None	(1) 16K/32K x 8
512KB	(4) 128K x 8	None	(1) 32K x 8

CACHE JUMPER CONFIGURATION			
Size	JP1	JP3	JP33
128KB	Pins 1 & 2 closed	Pins 1 & 2, 3 & 4 closed	Pins 2 & 3 closed
256KB (A)	Pins 2 & 3 closed	Pins 2 & 3, 4 & 5 closed	Pins 2 & 3 closed
256KB (B)	Pins 1 & 2 closed	Pins 1 & 2, 3 & 4 closed	Pins 1 & 2 closed
512KB	Pins 1 & 2 closed	Pins 1 & 2, 3 & 4 closed	Pins 2 & 3 closed

CACHE TAG JUMPER CONFIGURATION			
Cache	TAG	JP2	JP4
128KB	(1) 8K x 8	Pins 1 & 2 closed	Pins 1 & 2 closed
256KB (A,B)	(1) 16K x 8	Pins 3 & 4 closed	Open
256KB (A,B)	(1) 32K x 8	Pins 2 & 3 closed	Pins 1 & 2 closed
512KB	(1) 32K x 8	Pins 2 & 3 closed	Pins 2 & 3 closed

CPU SPEED SELECTION (AV9107-03)			
Speed	JP5	JP6	JP7
20MHz	Closed	Open	Closed
25MHz	Closed	Closed	Open
33MHz	Open	Closed	Closed
40MHz	Closed	Open	Open
50iMHz	Closed	Closed	Open
50MHz	Open	Open	Closed
66iMHz	Open	Closed	Closed
75iMHz	Closed	Closed	Open
80iMHz	Closed	Open	Open
100iMHz	Open	Closed	Closed

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CPU SPEED SELECTION (MS-8315)			
Speed	JP5	JP6	JP7
20MHz	Open	Open	Open
25MHz	Open	Closed	Open
33MHz	Closed	Closed	Closed
40MHz	Open	Closed	Closed
50iMHz	Open	Closed	Open
50MHz	Closed	Open	Open
66iMHz	Closed	Closed	Closed
75iMHz	Open	Closed	Open
80iMHz	Open	Closed	Closed
100iMHz	Closed	Closed	Closed

CPU TYPE SELECTION					
Type	JP8	JP10	JP11	JP12	JP13
CX486S	2 & 3	2 & 3	Open	2 & 3, 4 & 5	Open
UMC U5	1 & 2, 3 & 4	2 & 3	1 & 2, 3 & 4	Open	Open
80486SX	2 & 3	2 & 3	Open	3 & 4	1 & 2
SL80486SX	2 & 3	2 & 3	Open	3 & 4	1 & 2
CX486DX	1 & 2, 3 & 4	2 & 3	3 & 4	2 & 3	Open
80486DX	1 & 2, 3 & 4	2 & 3	3 & 4	3 & 4	1 & 2
SL80486DX	1 & 2, 3 & 4	2 & 3	3 & 4	3 & 4	1 & 2
CX486DX2	1 & 2, 3 & 4	2 & 3	3 & 4	2 & 3	Open
CX486DX2 (3.6v)	1 & 2, 3 & 4	2 & 3	3 & 4	2 & 3	Open
CX486DX2 (4v)	1 & 2, 3 & 4	2 & 3	3 & 4	2 & 3	Open
AM486DX2 (3.45v)	1 & 2, 3 & 4	2 & 3	3 & 4	Open	Open
(SL)AM486DX2 (3.45v)	1 & 2, 3 & 4	2 & 3	3 & 4	1 & 2, 3 & 4	2 & 3
80486DX2	1 & 2, 3 & 4	2 & 3	3 & 4	3 & 4	1 & 2
SL80486DX2	1 & 2, 3 & 4	2 & 3	3 & 4	3 & 4	1 & 2
AM486DX4 (3.45v)	1 & 2, 3 & 4	2 & 3	3 & 4	Open	Open
(SL)AM486DX4 (3.45v)	1 & 2, 3 & 4	2 & 3	3 & 4	1 & 2, 3 & 4	2 & 3
80486DX4	1 & 2, 3 & 4	2 & 3	3 & 4	3 & 4	1 & 2
P24D	1 & 2, 3 & 4	1 & 2	3 & 4	1 & 2, 3 & 4	2 & 3
P24T	1 & 2, 3 & 4	1 & 2	2 & 3	3 & 4	Open

Note: Pins designated should be in the closed position.

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CPU TYPE SELECTION (CON'T)						
Type	JP14	JP15	JP21	JP22	JP24	JP25
CX486S	1 & 2, 3 & 4	2 & 3	1 & 2	2 & 3	2 & 3	2 & 3
UMC U5	Open	Open	1 & 2	2 & 3	3 & 4	Open
80486SX	2 & 3	4 & 5	2 & 3	1 & 2	Open	Open
SL80486SX	2 & 3	4 & 5	2 & 3	1 & 2	Open	Open
CX486DX	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3	2 & 3
80486DX	2 & 3	4 & 5	2 & 3	1 & 2	Open	Open
SL80486DX	2 & 3	4 & 5	2 & 3	1 & 2	Open	Open
CX486DX2	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3	2 & 3
CX486DX2 (3.6v)	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3	2 & 3
CX486DX2 (4v)	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3	2 & 3
AM486DX2 (3.45v)	Open	Open	2 & 3	1 & 2	Open	Open
(SL)AM486DX2 (3.45v)	2 & 3	4 & 5	1 & 2	1 & 2	5 & 6	Open
80486DX2	2 & 3	4 & 5	2 & 3	1 & 2	Open	Open
SL80486DX2	2 & 3	4 & 5	2 & 3	1 & 2	Open	Open
AM486DX4 (3.45v)	Open	Open	2 & 3	1 & 2	Open	Open
(SL)AM486DX4 (3.45v)	2 & 3	4 & 5	1 & 2	1 & 2	Open	Open
80486DX4	2 & 3	4 & 5	2 & 3	1 & 2	Open	Open
P24D	2 & 3	4 & 5	1 & 2	1 & 2	Open	1 & 2
P24T	2 & 3	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU TYPE SELECTION (CON'T)						
Type	JP30	JP31	JP34	JP35	JP36	JP38
CX486S	Open	Open	1 & 2	Closed	Open	Open
UMC U5	Open	Open	2 & 3	Closed	Open	Open
80486SX	Open	Open	1 & 2	Closed	Open	Open
SL80486SX	Open	Open	1 & 2	Closed	Open	Open
CX486DX	Open	Open	1 & 2	Closed	Open	Open
80486DX	Open	Open	1 & 2	Closed	Open	Open
SL80486DX	Open	Open	1 & 2	Closed	Open	Open
CX486DX2	Open	Open	1 & 2	Closed	Open	Open
CX486DX2 (3.6v)	Open	Open	1 & 2	Open	Open	1 & 2
CX486DX2 (4v)	Open	Open	1 & 2	Open	Open	2 & 3
AM486DX2 (3.45v)	2 & 3	Open	Open	Open	2 & 3	Open
(SL)AM486DX2 (3.45v)	1 & 2	1 & 2	1 & 2	Open	2 & 3	Open
80486DX2	Open	Open	1 & 2	Closed	Open	Open
SL80486DX2	Open	Open	1 & 2	Closed	Open	Open
AM486DX4 (3.45v)	Open	Open	Open	Open	2 & 3	Open
(SL)AM486DX4 (3.45v)	1 & 2	1 & 2	1 & 2	Open	2 & 3	Open
80486DX4	Open	Open	1 & 2	Open	1 & 2	Open
P24D	1 & 2	1 & 2	1 & 2	Closed	Open	Open
P24T	Open	Open	1 & 2	Closed	Open	Open

Note: Pins designated should be in the closed position.

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VL BUS WAIT STATE SELECTION	
Setting	JP28
0	Pins 1 & 2 closed
1	Pins 2 & 3 closed

VL BUS SPEED SELECTION	
Speed	JP29
<= 33MHz	Pins 1 & 2 closed
1 >33 MHz	Pins 2 & 3 closed

FLASH BIOS SELECTION	
Setting	JP37
1 EPROM	Open
5v flash	Pins 2 & 3 closed
12v flash	Pins 1 & 2 closed