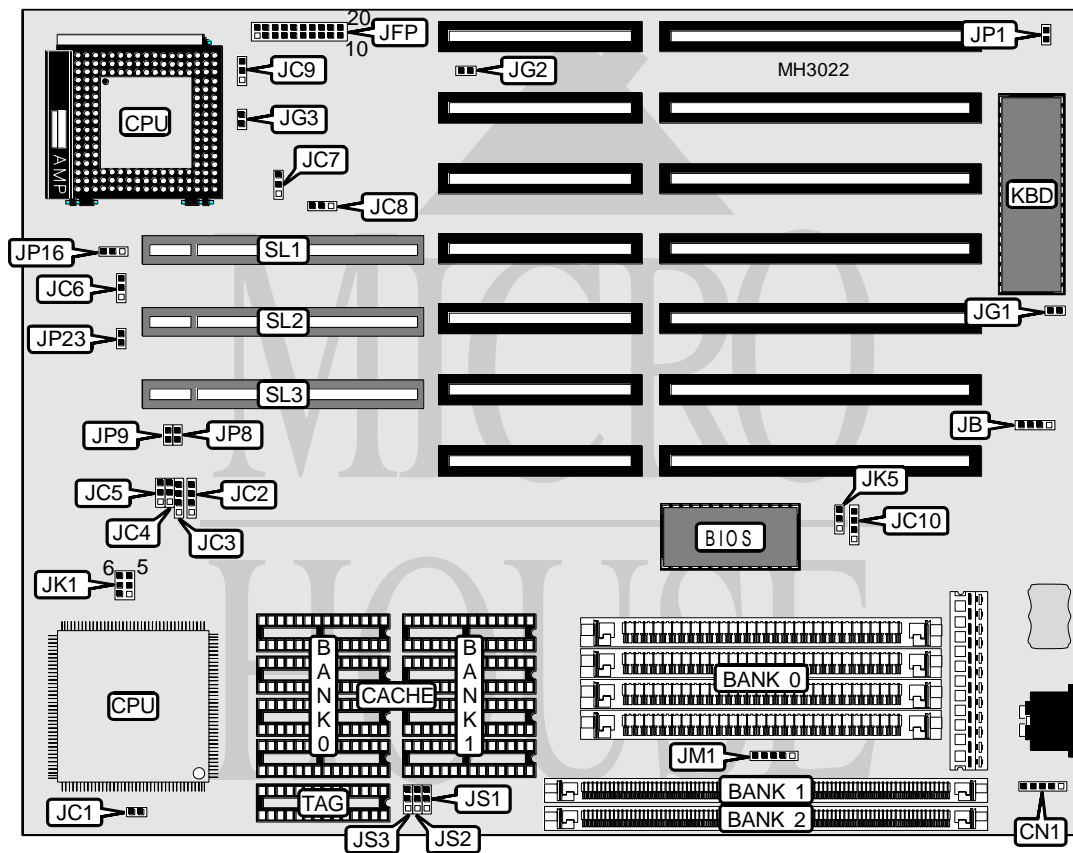


MICRO-STAR INTERNATIONAL CO., LTD.

MS - 4132

Processor	80486SX/SL80486SX/80487SX/AM486DX/80486DX/SL80486DX/AM486DX2/80486DX2/SL80486DX2
Processor Speed	25/33/40/50(internal)/50/66(internal)MHz
Chip Set	SIS
Max. Onboard DRAM	96MB
Cache	128/256/512KB
BIOS	AMI/Phoenix
Dimensions	260mm x 221mm
I/O Options	32-bit VESA local bus slots (3), green PC connector
NPU Options	None



CONNECTIONS			
Purpose	Location	Purpose	Location
Auxiliary keyboard connector	CN1	Reset switch	JFP pins 19 & 20
External battery	JB	Green PC connector (monitor)	JG1
Power LED & keylock	JFP pins 1 - 5	Green PC LED	JG2
Speaker	JFP pins 7 - 10	Green PC connector	JG3
Turbo LED	JFP pins 12 & 13	32-bit VESA local bus slots	SL1 - SL3
Turbo switch	JFP pins 15 - 17		

Continued on next page. . .

MICRO-STAR INTERNATIONAL CO., LTD.
MS - 4132

... continued from previous page

USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
í Battery type select internal	JB	pins 2 & 3 closed
Battery type select external	JB	Closed
í CPU type select PQFP CPU installed	JC1	Open
CPU type select PGA CPU installed	JC1	Closed
í Factory configured - do not alter	JC5	N/A
í Factory configured - do not alter	JC6	N/A
í Factory configured - do not alter	JC7	N/A
í Factory configured - do not alter	JC9	N/A
í Factory configured - do not alter	JC10	N/A
í Monitor type select monochrome	JP1	Open
Monitor type select color	JP1	Closed
í Factory configured - do not alter	JP16	N/A
í VESA local bus card select any card installed	JP23	Open
VESA local bus card select special cards only	JP23	Closed

DRAM CONFIGURATION			
Size	Bank 0	Bank 1	Bank 2
1MB	NONE	(1) 256K x 36	NONE
1MB	(4) 256K x 9	NONE	NONE
2MB	NONE	(1) 256K x 36	(1) 256K x 36
2MB	NONE	(1) 512K x 36	NONE
2MB	(4) 256K x 9	(1) 256K x 36	NONE
4MB	NONE	(1) 512K x 36	(1) 512K x 36
4MB	NONE	(1) 1M x 36	NONE
4MB	(4) 1M x 9	NONE	NONE
5MB	NONE	(1) 256K x 36	(1) 1M x 36
5MB	(4) 1M x 9	(1) 256K x 36	NONE
6MB	NONE	(1) 512K x 36	(1) 1M x 36
6MB	(4) 1M x 9	(1) 512K x 36	NONE
6MB	(4) 1M x 9	(1) 256K x 36	(1) 256K x 36
8MB	NONE	(1) 1M x 36	(1) 1M x 36
8MB	NONE	(1) 2M x 36	NONE
8MB	(4) 1M x 9	(1) 1M x 36	NONE
8MB	(4) 1M x 9	(1) 512K x 36	(1) 512K x 36
12MB	(4) 1M x 9	(1) 1M x 36	(1) 1M x 36
16MB	NONE	(1) 2M x 36	(1) 2M x 36
16MB	NONE	(1) 4M x 36	NONE
16MB	(4) 4M x 9	NONE	NONE
17MB	NONE	(1) 256K x 36	(1) 4M x 36
17MB	(4) 4M x 9	(1) 256K x 36	NONE
18MB	NONE	(1) 512K x 36	(1) 4M x 36
18MB	(4) 4M x 9	(1) 512K x 36	NONE
18MB	(4) 4M x 9	(1) 256K x 36	(1) 256K x 36
20MB	NONE	(1) 1M x 36	(1) 4M x 36

Continued on next page. . .

MICRO-STAR INTERNATIONAL CO., LTD.

MS - 4132

... continued from previous page

DRAM CONFIGURATION (CON'T)			
Size	Bank 0	Bank 1	Bank 2
20MB	(4) 4M x 9	(1) 1M x 36	NONE
20MB	(4) 4M x 9	(1) 512K x 36	(1) 512K x 36
24MB	(4) 4M x 9	(1) 1M x 36	(1) 1M x 36
32MB	NONE	(1) 4M x 36	(1) 4M x 36
32MB	NONE	(1) 8M x 36	NONE
32MB	(4) 4M x 9	(1) 4M x 36	NONE
36MB	NONE	(1) 1M x 36	(1) 8M x 36
36MB	(4) 1M x 9	NONE	(1) 8M x 36
36MB	(4) 4M x 9	(1) 1M x 36	(1) 4M x 36
48MB	NONE	(1) 4M x 36	(1) 8M x 36
48MB	(4) 4M x 9	NONE	(1) 8M x 36
48MB	(4) 4M x 9	(1) 4M x 36	(1) 4M x 36
64MB	NONE	(1) 8M x 36	(1) 8M x 36
64MB	(4) 16M x 9	NONE	NONE
65MB	(4) 16M x 9	(1) 256K x 36	NONE
68MB	(4) 16M x 9	(1) 1M x 36	NONE
72MB	(4) 16M x 9	(1) 1M x 36	(1) 1M x 36
80MB	(4) 16M x 9	(1) 4M x 36	NONE
96MB	(4) 16M x 9	(1) 4M x 36	(1) 4M x 36

DRAM JUMPER CONFIGURATION	
Size	JM1
1MB	Open
1MB	pins 1 & 2 closed
2MB	Open
2MB	Open
2MB	pins 2 & 3 or 3 & 4 closed
4MB	Open
4MB	Open
4MB	pins 1 & 2 closed
5MB	Open
5MB	pins 2 & 3 or 3 & 4 closed
6MB	Open
6MB	pins 2 & 3 or 3 & 4 closed
6MB	pins 4 & 5 closed
8MB	Open
8MB	Open
8MB	pins 2 & 3 or 3 & 4 closed
8MB	pins 4 & 5 closed
12MB	pins 4 & 5 closed
16MB	Open
16MB	Open
16MB	pins 1 & 2 closed
17MB	Open

Continued on next page...

MICRO-STAR INTERNATIONAL CO., LTD.
MS - 4132

... continued from previous page

DRAM JUMPER CONFIGURATION (CON'T)	
Size	JM1
17MB	pins 2 & 3 or 3 & 4 closed
18MB	Open
18MB	pins 2 & 3 or 3 & 4 closed
18MB	pins 4 & 5 closed
20MB	Open
20MB	pins 2 & 3 or 3 & 4 closed
20MB	pins 4 & 5 closed
24MB	pins 4 & 5 closed
32MB	Open
32MB	Open
32MB	pins 2 & 3 or 3 & 4 closed
36MB	Open
36MB	pins 1 & 2 closed
36MB	pins 4 & 5 closed
48MB	Open
48MB	pins 1 & 2 closed
48MB	pins 4 & 5 closed
64MB	Open
64MB	pins 1 & 2 closed
65MB	pins 2 & 3 or 3 & 4 closed
68MB	pins 2 & 3 or 3 & 4 closed
72MB	pins 4 & 5 closed
80MB	pins 2 & 3 or 3 & 4 closed
96MB	pins 4 & 5 closed

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

CACHE JUMPER CONFIGURATION			
Size	JS1	JS2	JS3
128KB	pins 1 & 2 closed	pins 1 & 2 closed	pins 1 & 2 closed
256KB (A)	pins 2 & 3 closed	pins 2 & 3 closed	pins 1 & 2 closed
256KB (B)	pins 2 & 3 closed	pins 1 & 2 closed	pins 1 & 2 closed
512KB	pins 2 & 3 closed	pins 1 & 2 closed	pins 2 & 3 closed

Continued on next page. . .

MICRO-STAR INTERNATIONAL CO., LTD.
MS - 4132

... continued from previous page

CPU TYPE CONFIGURATION				
Type	JC2	JC3	JC4	JC8
80486SX	Open	2 & 3	Open	Open
SL80486SX	1 & 2, 3 & 4	2 & 3	1 & 2	Open
80487SX	Open	1 & 2, 3 & 4	Open	1 & 2
AM486DX	Open	1 & 2, 3 & 4	Open	2 & 3
80486DX	Open	1 & 2, 3 & 4	Open	2 & 3
SL80486DX	1 & 2, 3 & 4	1 & 2, 3 & 4	1 & 2	2 & 3
AM486DX2	Open	1 & 2, 3 & 4	Open	2 & 3
80486DX2	Open	1 & 2, 3 & 4	Open	2 & 3
SL80486DX2	1 & 2, 3 & 4	1 & 2, 3 & 4	1 & 2	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED CONFIGURATION		
Speed	JK1	JK5
25MHz	Open	pins 2 & 3 closed
33MHz	pins 1 & 2, 3 & 4 closed	pins 2 & 3 closed
40MHz	pins 3 & 4 closed	pins 2 & 3 closed
50MHz	Open	pins 2 & 3 closed
50MHz	pins 1 & 2, 5 & 6 closed	pins 1 & 2 closed
66MHz	pins 1 & 2, 3 & 4 closed	pins 2 & 3 closed

VESA WAIT STATE CONFIGURATION	
Wait states	JP8
0 wait states	Closed
1 wait state	Open

VL BUS SPEED CONFIGURATION	
CPU speed	JP9
<= 33MHz	Open
> 33MHz	Closed