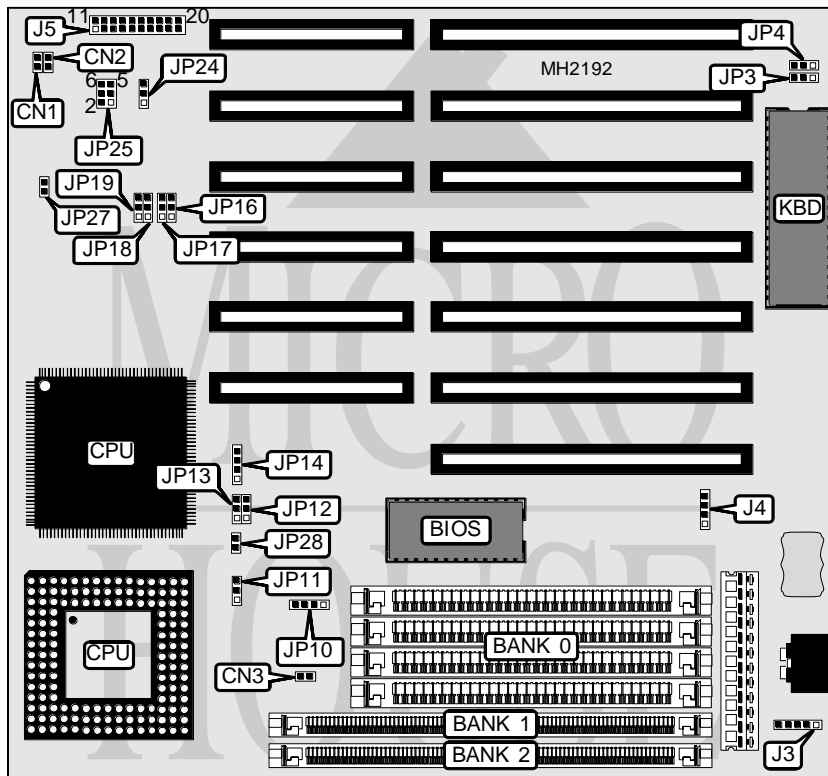


MICRO-STAR INTERNATIONAL CO., LTD.

MS-4129 (ISA 486 AL1), ALI 486 NONCACHE

Processor	CX486SX/80486SX/80487SX/AMD486DX/80486DX/80486DX2/Pentium Overdrive
Processor Speed	25/33/40/50(internal)/50/66(internal)MHz
Chip Set	ALI
Max. Onboard DRAM	112MB
Cache	None
BIOS	AMI
Dimensions	220mm x 220mm
I/O Options	None
NPU Options	CX487



CONNECTIONS			
Purpose	Location	Purpose	Location
Keyboard connector	J3	Turbo LED	J5 (pins 12-13)
External battery	J4	Turbo switch	J5 (pins 15-17)
Power LED & keylock	J5 (pins 1-5)	Reset switch	J5 (pins 19-20)
Speaker	J5 (pins 7-10)		

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USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
í Factory configured - do not alter	CN1	Open
í Factory configured - do not alter	CN2	Open
í Factory configured - do not alter	CN3	Open
í Battery type select internal	J4	pins 2 & 3 closed
Battery type select external	J4	Closed
í Monitor type select monochrome	JP4	Open
Monitor type select color	JP4	pins 2 & 3 closed
í CPU type select PGA	JP28	Open
CPU type select PQFP	JP28	Closed

DRAM CONFIGURATION			
Size	Bank 0	Bank 1	Bank 2
1MB	(4) 256K x 9	NONE	NONE
1MB	NONE	(1) 256K x 36	NONE
1MB	NONE	NONE	(1) 256K x 36
1MB	NONE	(1) 256K x 36	NONE
2MB	(4) 256K x 9	(1) 256K x 36	NONE
2MB	NONE	(1) 512K x 36	NONE
2MB	NONE	NONE	(1) 512K x 36
2MB	NONE	(1) 256K x 36	(1) 256K x 36
2MB	NONE	(1) 512K x 36	NONE
3MB	(4) 256K x 9	(1) 512K x 36	NONE
3MB	(4) 256K x 9	(1) 256K x 36	(1) 256K x 36
3MB	NONE	(1) 256K x 36	(1) 512K x 36
3MB	NONE	(1) 512K x 36	(1) 256K x 36
4MB	(4) 1M x 9	NONE	NONE
4MB	(4) 256K x 9	(1) 512K x 36	(1) 256K x 36
4MB	NONE	(1) 1M x 36	NONE
4MB	NONE	NONE	(1) 1M x 36
4MB	NONE	(1) 512K x 36	(1) 512K x 36
4MB	NONE	(1) 1M x 36	NONE
5MB	(4) 256K x 9	(1) 1M x 36	NONE
5MB	NONE	(1) 256K x 36	(1) 1M x 36
5MB	NONE	(1) 1M x 36	(1) 256K x 36
6MB	(4) 256K x 9	(1) 256K x 36	(1) 1M x 36
6MB	(4) 256K x 9	(1) 1M x 36	(1) 256K x 36
6MB	(1) 1M x 9	(1) 256K x 36	(1) 256K x 36
6MB	NONE	(1) 512K x 36	(1) 1M x 36
7MB	(4) 256K x 9	(1) 512K x 36	(1) 1M x 36
7MB	(1) 1M x 9	(1) 512K x 36	(1) 256K x 36
8MB	NONE	(1) 2M x 36	NONE
8MB	NONE	NONE	(1) 2M x 36
8MB	NONE	(1) 1M x 36	(1) 1M x 36
8MB	NONE	(1) 2M x 36	NONE

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MS-4129 (ISA 486 AL1), ALI 486 NONCACHE

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DRAM CONFIGURATION (CON'T)			
Size	Bank 0	Bank 1	Bank 2
9MB	(4) 256K x 9	(1) 2M x 36	NONE
9MB	(4) 256K x 9	(1) 1M x 36	(1) 1M x 36
9MB	(1) 1M x 9	(1) 256K x 36	(1) 1M x 36
9MB	(1) 1M x 9	(1) 1M x 36	(1) 256K x 36
9MB	NONE	(1) 256K x 36	(1) 2M x 36
10MB	NONE	(1) 512K x 36	(1) 2M x 36
10MB	NONE	(1) 2M x 36	(1) 256K x 36
10MB	(4) 256K x 9	(1) 2M x 36	(1) 256K x 36
10MB	(1) 1M x 9	(1) 512K x 36	(1) 1M x 36
10MB	NONE	(1) 2M x 36	(1) 512K x 36
12MB	(1) 1M x 9	(1) 1M x 36	(1) 1M x 36
12MB	NONE	(1) 1M x 36	(1) 2M x 36
12MB	NONE	(1) 2M x 36	(1) 1M x 36
13MB	(4) 256K x 9	(1) 2M x 36	(1) 1M x 36
13MB	(1) 1M x 9	(1) 2M x 36	(1) 256K x 36
16MB	(4) 4M x 9	NONE	NONE
16MB	(1) 1M x 9	(1) 2M x 36	(1) 1M x 36
16MB	NONE	(1) 4M x 36	NONE
16MB	NONE	NONE	(1) 4M x 36
16MB	NONE	(1) 2M x 36	(1) 2M x 36
16MB	NONE	(1) 4M x 36	NONE
17MB	(4) 256K x 9	(1) 4M x 36	NONE
17MB	NONE	(1) 256K x 36	(1) 4M x 36
17MB	NONE	(1) 4M x 36	(1) 256K x 36
18MB	(4) 256K x 9	(1) 256K x 36	(1) 4M x 36
18MB	(4) 256K x 9	(1) 4M x 36	(1) 256K x 36
18MB	(1) 4M x 9	(1) 256K x 36	(1) 256K x 36
18MB	NONE	(1) 512K x 36	(1) 4M x 36
18MB	(1) 4M x 36	NONE	(1) 512K x 36
18MB	NONE	(1) 4M x 36	(1) 512K x 36
19MB	(4) 256K x 9	(1) 512K x 36	(1) 4M x 36
19MB	(1) 4M x 9	(1) 512K x 36	(1) 256K x 36
20MB	NONE	(1) 1M x 36	(1) 4M x 36
20MB	NONE	(1) 4M x 36	(1) 1M x 36
21MB	(4) 256K x 9	(1) 1M x 36	(1) 4M x 36
21MB	(4) 256K x 9	(1) 4M x 36	(1) 1M x 36
21MB	(1) 1M x 9	(1) 256K x 36	(1) 4M x 36
21MB	(1) 1M x 9	(1) 4M x 36	(1) 256K x 36
21MB	(1) 4M x 9	(1) 256K x 36	(1) 1M x 36
21MB	(1) 4M x 9	(1) 1M x 36	(1) 256K x 36
22MB	(1) 1M x 9	(1) 512K x 36	(1) 4M x 36
22MB	(1) 4M x 9	(1) 512K x 36	(1) 1M x 36
24MB	(1) 1M x 9	(1) 1M x 36	(1) 4M x 36
24MB	(1) 1M x 9	(1) 4M x 36	(1) 1M x 36

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DRAM CONFIGURATION (CON'T)			
Size	Bank 0	Bank 1	Bank 2
24MB	(1) 4M x 9	(1) 1M x 36	(1) 1M x 36
24MB	NONE	(1) 2M x 36	(1) 4M x 36
24MB	NONE	(1) 4M x 36	(1) 2M x 36
25MB	(4) 256K x 9	(1) 2M x 36	(1) 4M x 36
25MB	(1) 4M x 9	(1) 2M x 36	(1) 256K x 36
28MB	(1) 1M x 9	(1) 2M x 36	(1) 4M x 36
28MB	(1) 4M x 9	(1) 2M x 36	(1) 1M x 36
32MB	NONE	(1) 8M x 36	NONE
32MB	NONE	NONE	(1) 8M x 36
32MB	NONE	(1) 4M x 36	(1) 4M x 36
32MB	NONE	(1) 8M x 36	NONE
33MB	(4) 256K x 9	(1) 8M x 36	NONE
33MB	(4) 256K x 9	(1) 4M x 36	(1) 4M x 36
33MB	(1) 4M x 9	(1) 256K x 36	(1) 4M x 36
33MB	(1) 4M x 9	(1) 4M x 36	(1) 256K x 36
33MB	NONE	(1) 256K x 36	(1) 8M x 36
33MB	NONE	(1) 8M x 36	(1) 256K x 36
34MB	(4) 256K x 9	(1) 8M x 36	(1) 256K x 36
34MB	(1) 4M x 9	(1) 512K x 36	(1) 4M x 36
34MB	NONE	(1) 512K x 36	(1) 8M x 36
34MB	NONE	(1) 8M x 36	(1) 512K x 36
36MB	(1) 1M x 9	(1) 4M x 36	(1) 4M x 36
36MB	(1) 4M x 9	(1) 1M x 36	(1) 4M x 36
36MB	(1) 4M x 9	(1) 4M x 36	(1) 1M x 36
36MB	NONE	(1) 1M x 36	(1) 8M x 36
36MB	NONE	(1) 8M x 36	(1) 1M x 36
37MB	(4) 256K x 9	(1) 8M x 36	(1) 1M x 36
37MB	(1) 1M x 9	(1) 8M x 36	(1) 256K x 36
40MB	(1) 1M x 9	(1) 8M x 36	(1) 1M x 36
40MB	(1) 4M x 9	(1) 2M x 36	(1) 4M x 36
40MB	NONE	(1) 2M x 36	(1) 8M x 36
40MB	NONE	(1) 8M x 36	(1) 2M x 36
48MB	(1) 4M x 9	(1) 4M x 36	(1) 4M x 36
48MB	NONE	(1) 4M x 36	(1) 8M x 36
48MB	NONE	(1) 8M x 36	(1) 4M x 36
49MB	(4) 256K x 9	(1) 8M x 36	(1) 4M x 36
49MB	(1) 4M x 9	(1) 8M x 36	(1) 256K x 36
52MB	(1) 1M x 9	(1) 8M x 36	(1) 4M x 36
52MB	(1) 4M x 9	(1) 8M x 36	(1) 1M x 36
64MB	(4) 16M x 9	NONE	NONE
64MB	(1) 4M x 9	(1) 8M x 36	(1) 4M x 36
64MB	NONE	(1) 8M x 36	(1) 8M x 36
66MB	(4) 16M x 9	(1) 256K x 36	(1) 256K x 36
67MB	(4) 16M x 9	(1) 512K x 36	(1) 256K x 36

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MS-4129 (ISA 486 AL1), ALI 486 NONCACHE

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DRAM CONFIGURATION (CON'T)			
Size	Bank 0	Bank 1	Bank 2
69MB	(4) 16M x 9	(1) 256K x 36	(1) 1M x 36
69MB	(4) 16M x 9	(1) 1M x 36	(1) 256K x 36
70MB	(4) 16M x 9	(1) 512K x 36	(1) 1M x 36
72MB	(4) 16M x 9	(1) 1M x 36	(1) 1M x 36
73MB	(4) 16M x 9	(1) 2M x 36	(1) 256K x 36
76MB	(4) 16M x 9	(1) 2M x 36	(1) 1M x 36
81MB	(4) 16M x 9	(1) 256K x 36	(1) 4M x 36
81MB	(4) 16M x 9	(1) 4M x 36	(1) 256K x 36
82MB	(4) 16M x 9	(1) 512K x 36	(1) 4M x 36
84MB	(4) 16M x 9	(1) 1M x 36	(1) 4M x 36
84MB	(4) 16M x 9	(1) 4M x 36	(1) 1M x 36
88MB	(4) 16M x 9	(1) 2M x 36	(1) 4M x 36
96MB	(4) 16M x 9	(1) 4M x 36	(1) 4M x 36
97MB	(4) 16M x 9	(1) 8M x 36	(1) 256K x 36
100MB	(4) 16M x 9	(1) 8M x 36	(1) 1M x 36
112MB	(4) 16M x 9	(1) 8M x 36	(1) 4M x 36

CPU TYPE CONFIGURATION		
Type	JP10	JP14
80486SX	Open	pins 2 & 3 closed
80487SX	pins 1 & 2 closed	pins 1 & 2, 3 & 4 closed
80486DX/DX2	pins 2 & 3 closed	pins 1 & 2, 3 & 4 closed

CPU TYPE CONFIGURATION							
Type	JP11	JP12	JP13	JP17	JP18	JP19	JP27
CX486SX/CX487SX	Open	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	Closed
Pentium Overdrive	Open	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	Closed

Note: Pins designated should be in the closed position.

CPU SPEED CONFIGURATION				
Speed	JP3	JP16	JP24	JP25
25MHz	1 & 2	1 & 2	1 & 2	3 & 4
33MHz	1 & 2	1 & 2	1 & 2	1 & 2, 5 & 6
40MHz	1 & 2	1 & 2	1 & 2	1 & 2, 3 & 4, 5 & 6
50iMHz	1 & 2	1 & 2	1 & 2	3 & 4
50MHz	2 & 3	2 & 3	2 & 3	3 & 4
66iMHz	1 & 2	1 & 2	1 & 2	1 & 2, 5 & 6

Note: Pins designated should be in the closed position.