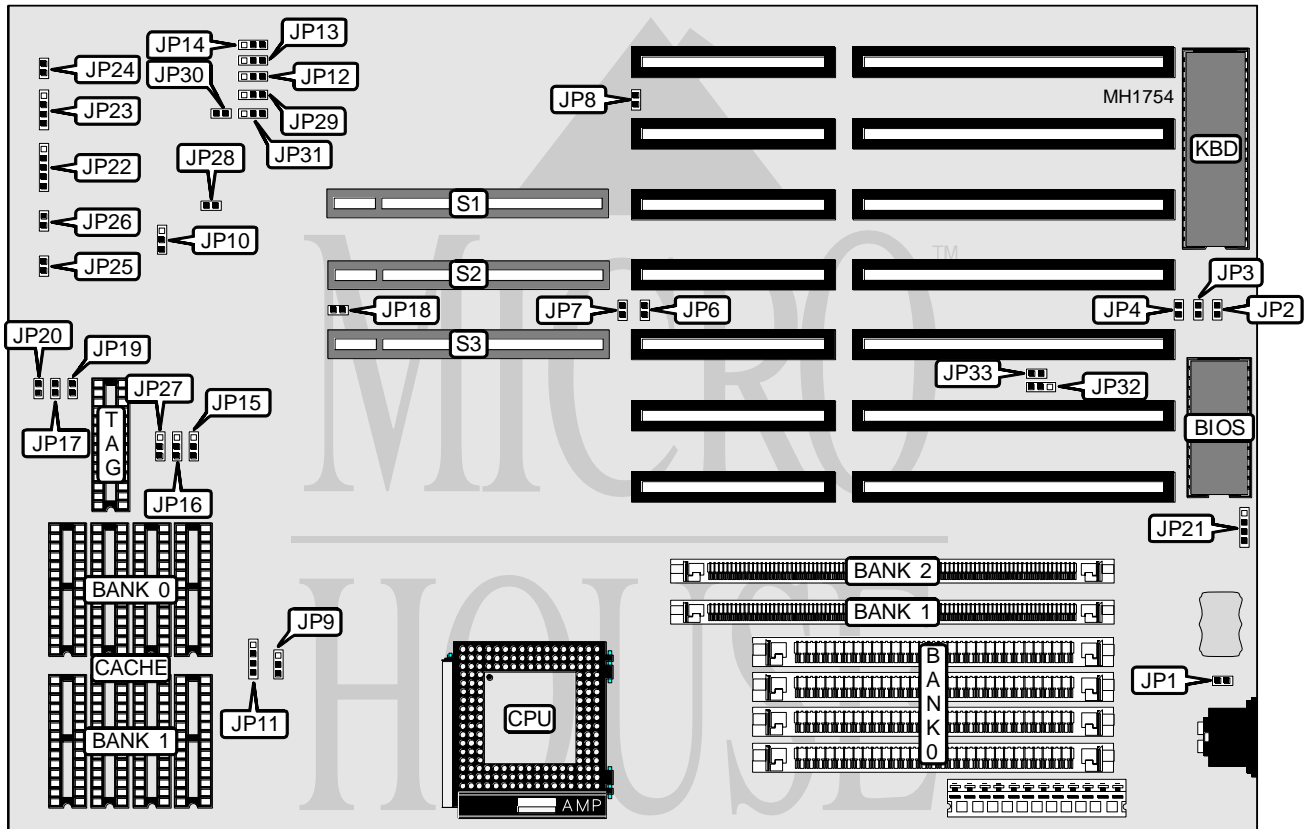


EFA CORPORATION

4 M H L 3 S

Processor	CX486SX/80486SX/CX486DX/80486DX/80486DX2
Processor Speed	20/25/33/40/50(internal)/50/66(internal)MHz
Chip Set	UMC
Max. Onboard DRAM	64MB
Cache	32/64/128/256KB
BIOS	AMI
Dimensions	330mm x 218mm
I/O Options	32-bit VESA local bus slots (3)
NPU Options	None



CONNECTIONS			
Purpose	Location	Purpose	Location
External battery	JP21	Reset switch	JP26
Power LED & keylock	JP22	Green PC connector	JP28
Speaker	JP23	32-bit VESA Local bus slot	S1
Turbo LED	JP24	32-bit VESA Local bus slot	S2
Turbo switch	JP25	32-bit VESA Local bus slot	S3

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USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
External battery enabled	JP1	Open
Internal battery enabled	JP1	Closed
CPU CX486SX & CX487SX enabled	JP6	pins 1 & 2 closed
CPU CX486SX & CX487SX disabled	JP6	Open
í Trident 9000 video card not installed	JP8	pins 1 & 2 closed
Trident 9000 video card installed	JP8	pins 2 & 3 closed
í External green card enabled	JP10	pins 2 & 3 closed
External green card disabled	JP10	pins 1 & 2 closed
í Factory configured - do not alter	JP13	pins 1 & 2 closed
32K x 8 TAG enabled	JP27	pins 1 & 2 closed
16K x 8 TAG enabled	JP27	pins 2 & 3 closed
í Factory configured - do not alter	JP29	pins 2 & 3 closed
í Factory configured - do not alter	JP30	pins 2 & 3 closed
í Factory configured - do not alter	JP31	Closed

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

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DRAM CONFIGURATION (Cont.)			
Size	Bank 0	Bank 1	Bank 2
9MB	(4) 1M x 9	(1) 1M x 36	(1) 256K x 36
9MB	(4) 1M x 9	(1) 256K x 36	(1) 1M x 36
9MB	(4) 256K x 9	(1) 1M x 36	(1) 1M x 36
10MB	NONE	(1) 2M x 36	(1) 512K x 36
10MB	(4) 1M x 9	(1) 512K x 36	(1) 1M x 36
12MB	(4) 1M x 9	(1) 1M x 36	(1) 1M x 36
12MB	(4) 1M x 9	(1) 2M x 36	NONE
12MB	NONE	(1) 2M x 36	(1) 1M x 36
12MB	NONE	(1) 1M x 36	(1) 2M x 36
13MB	(4) 256K x 9	(1) 2M x 36	(1) 1M x 36
13MB	(4) 1M x 9	(1) 2M x 36	(1) 256K x 36
16MB	(4) 4M x 9	NONE	NONE
16MB	(4) 1M x 9	(1) 2M x 36	(1) 1M x 36
16MB	NONE	(1) 2M x 36	(1) 2M x 36
17MB	(4) 4M x 9	(1) 256K x 36	NONE
17MB	(4) 4M x 9	NONE	(1) 256K x 36
17MB	(4) 256K x 9	(1) 4M x 36	NONE
17MB	(4) 256K x 9	NONE	(1) 4M x 36
18MB	(4) 4M x 9	(1) 256K x 36	(1) 256K x 36
18MB	(4) 256K x 9	(1) 4M x 36	(1) 256K x 36
18MB	(4) 256K x 9	(1) 256K x 36	(1) 4M x 36
19MB	(4) 4M x 9	(1) 512K x 36	(1) 256K x 36
20MB	(4) 4M x 9	(1) 1M x 36	NONE
20MB	(4) 4M x 9	NONE	(1) 1M x 36
20MB	(4) 1M x 9	(1) 4M x 36	NONE
20MB	(4) 1M x 9	NONE	(1) 4M x 36
21MB	(4) 256K x 9	(1) 4M x 36	(1) 1M x 36
21MB	(4) 256K x 9	(1) 1M x 36	(1) 4M x 36
21MB	(4) 1M x 9	(1) 4M x 36	(1) 256K x 36
21MB	(4) 1M x 9	(1) 256K x 36	(1) 4M x 36
21MB	(4) 4M x 9	(1) 1M x 36	(1) 256K x 36
21MB	(4) 4M x 9	(1) 256K x 36	(1) 1M x 36
22MB	(4) 4M x 9	(1) 512K x 36	(1) 1M x 36
24MB	(4) 4M x 9	(1) 1M x 36	(1) 1M x 36
24MB	(4) 1M x 9	(1) 4M x 36	(1) 1M x 36
24MB	(4) 1M x 9	(1) 1M x 36	(1) 4M x 36
24MB	NONE	(1) 4M x 36	(1) 2M x 36
24MB	NONE	(1) 2M x 36	(1) 4M x 36
25MB	(4) 256K x 9	(1) 2M x 36	(1) 4M x 36
25MB	(4) 4M x 9	(1) 2M x 36	(1) 256K x 36
28MB	(4) 4M x 9	(1) 2M x 36	(1) 1M x 36
28MB	(4) 1M x 9	(1) 2M x 36	(1) 4M x 36
32MB	(4) 4M x 9	(1) 4M x 36	NONE
32MB	(4) 4M x 9	NONE	(1) 4M x 36
32MB	NONE	(1) 4M x 36	(1) 4M x 36

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DRAM CONFIGURATION (Cont.)			
Size	Bank 0	Bank 1	Bank 2
33MB	(4) 256K x 9	(1) 4M x 36	(1) 4M x 36
33MB	(4) 4M x 9	(1) 256K x 36	(1) 4M x 36
33MB	(4) 4M x 9	(1) 4M x 36	(1) 256K x 36
34MB	(4) 4M x 9	(1) 512K x 36	(1) 4M x 36
36MB	(4) 1M x 9	(1) 4M x 36	(1) 4M x 36
36MB	(4) 4M x 9	(1) 1M x 36	(1) 4M x 36
36MB	(4) 4M x 9	(1) 4M x 36	(1) 1M x 36
40MB	(4) 4M x 9	(1) 2M x 36	(1) 4M x 36
48MB	(4) 4M x 9	(1) 4M x 36	(1) 4M x 36
64MB	(4) 16M x 9	NONE	NONE

CLOCK GENERATOR CONFIGURATION		
Clock Type	JP32	JP33
MX8310	pins 1 & 2 closed	Open
MX8315	Open	Closed

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

CACHE JUMPER CONFIGURATION					
Size	JP15	JP16	JP17	JP19	JP20
32KB	pins 2 & 3	Open	Open	Open	Open
64KB	pins 1 & 2	Open	Open	Closed	Open
128KB	pins 2 & 3	pins 2 & 3	Closed	Closed	Open
256KB	pins 1 & 2	pins 1 & 2	Closed	Closed	Closed

Note: Pins designated should be in the closed position.

CPU TYPE CONFIGURATION		
Type	JP9	JP11
80486SX	Open	pins 2 & 3 closed
ODP486SX	pins 2 & 3 closed	pins 1 & 2, and 3 & 4 closed
CX486SX/CX487SX	pins 1 & 2 closed	pins 1 & 2, and 3 & 4 closed
80486DX2	pins 1 & 2 closed	pins 1 & 2, and 3 & 4 closed
80486DX2 Overdrive	pins 2 & 3 closed	pins 1 & 2, and 3 & 4 closed

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CPU SPEED CONFIGURATION				
Speed	JP2	JP3	JP4	JP7
20MHz	Open	Open	Open	pins 1 & 2 closed
25MHz	Closed	Open	Open	pins 1 & 2 closed
33MHz	Closed	Closed	Closed	pins 1 & 2 closed
40MHz	Closed	Closed	Open	pins 2 & 3 closed
50i MHz	Closed	Open	Open	pins 1 & 2 closed
50MHz	Open	Open	Closed	pins 2 & 3 closed
66i MHz	Closed	Closed	Closed	pins 1 & 2 closed

NPU TYPE CONFIGURATION		
Type	JP12	JP14
Intel CPU or CX486SX	pins 2 & 3 closed	Open
CX486SX & CX487SX	pins 1 & 2 closed	pins 2 & 3 closed

VESA WAIT STATE/BUS SPEED CONFIGURATION		
CPU speed	Wait states	JP18
≤ 33MHz	0 wait states	Open
> 33MHz	1 wait state	Closed