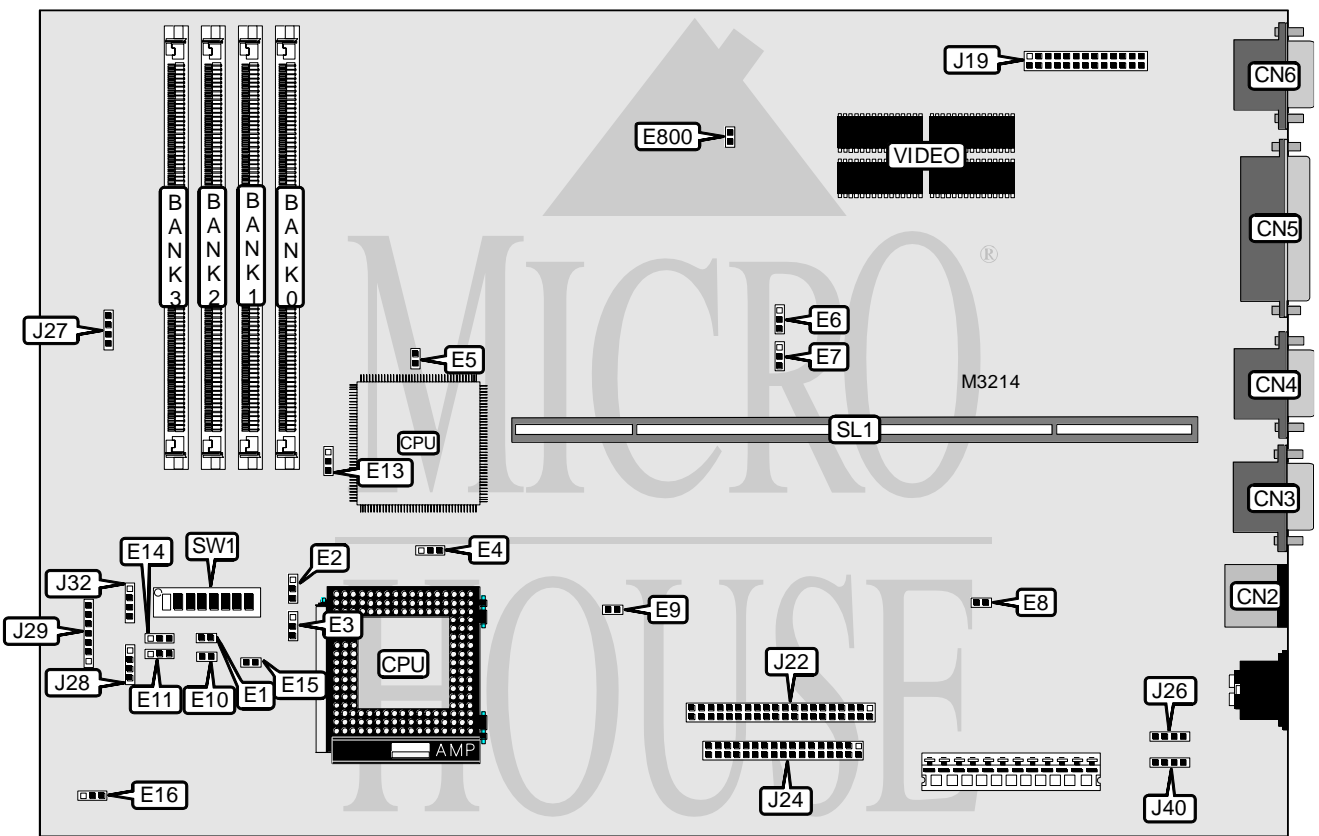


AST RESEARCH, INC. ADVANTAGE! 8000 SERIES 486 (COBRA) (202695-1X1)

Processor	80486SX/486 Overdrive/80486DX/80486DX2/80486DX4/Pentium Overdrive
Processor Speed	25/33/50(internal)/66(internal)/100(internal)MHz
Chip Set	Unidentified
Max. Onboard DRAM	128MB
Cache	64/256KB
BIOS	Unidentified
Dimensions	330mm x 218mm
I/O Options	Floppy drive interface, IDE interface, parallel port, PS/2 mouse port, serial ports (2), 8514 video pass through, VGA port, riser slot
NPU Options	None



CONNECTIONS			
Purpose	Location	Purpose	Location
PS/2 mouse port	CN2	External battery	J26
Serial port	CN3	Speaker	J27
Serial port	CN4	Chassis fan power	J28
Parallel port	CN5	Front console LED	J29
VGA port	CN6	Chassis fan power	J32
8514 video pass through connector	J19	IDE interface LED	J40
IDE interface	J22	Riser slot	SL1
Floppy drive interface	J24		

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USER CONFIGURABLE SETTINGS		
Function	Jumper/Switch	Position
í Factory configured - do not alter	E6	pins 1 & 2 closed
í CMOS memory normal operation	E8	Open
CMOS memory clear	E8	Closed
í Video memory enabled	E800	Closed
í Flash BIOS normal operation	SW1/1	Off
Flash BIOS force update at boot	SW1/1	On
í Password enabled	SW1/2	On
Password disabled	SW1/2	Off
í Monitor type select color	SW1/3	On
Monitor type select monochrome	SW1/3	Off
í Setup access enabled	SW1/4	Off
Setup access disabled	SW1/4	On
í On board video enabled	SW1/5	On
On board video disabled	SW1/5	Off
í Factory configured - do not alter	SW1/6	On
í Factory configured - do not alter	SW1/7	On
í Factory configured - do not alter	SW1/8	On

DRAM CONFIGURATION				
Size	Bank 0	Bank 1	Bank 2	Bank 3
4MB	(1) 1M x 32	NONE	NONE	NONE
8MB	(1) 2M x 32	NONE	NONE	NONE
8MB	(1) 1M x 32	(1) 1M x 32	NONE	NONE
9MB	(1) 1M x 32	(1) 1M x 32	(1) 256K x 32	NONE
10MB	(1) 1M x 32	(1) 1M x 32	(1) 256K x 32	(1) 256K x 32
12MB	(1) 1M x 32	(1) 1M x 32	(1) 1M x 32	NONE
16MB	(1) 1M x 32	(1) 1M x 32	(1) 1M x 32	(1) 1M x 32
16MB	(1) 4M x 32	NONE	NONE	NONE
17MB	(1) 2M x 32	(1) 2M x 32	(1) 256K x 32	NONE
18MB	(1) 2M x 32	(1) 2M x 32	(1) 256K x 32	(1) 256K x 32
20MB	(1) 2M x 32	(1) 2M x 32	(1) 1M x 32	NONE
24MB	(1) 2M x 32	(1) 2M x 32	(1) 1M x 32	(1) 1M x 32
24MB	(1) 2M x 32	(1) 2M x 32	(1) 2M x 32	NONE
32MB	(1) 2M x 32	(1) 2M x 32	(1) 2M x 32	(1) 2M x 32
32MB	(1) 8M x 32	NONE	NONE	NONE
32MB	(1) 4M x 32	(1) 4M x 32	NONE	NONE
33MB	(1) 4M x 32	(1) 4M x 32	(1) 256K x 32	NONE
34MB	(1) 4M x 32	(1) 4M x 32	(1) 256K x 32	(1) 256K x 32
36MB	(1) 4M x 32	(1) 4M x 32	(1) 1M x 32	NONE
40MB	(1) 4M x 32	(1) 4M x 32	(1) 1M x 32	(1) 1M x 32
40MB	(1) 4M x 32	(1) 4M x 32	(1) 2M x 32	NONE

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DRAM CONFIGURATION (CON'T)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
48MB	(1) 4M x 32	(1) 4M x 32	(1) 2M x 32	(1) 2M x 32
48MB	(1) 4M x 32	(1) 4M x 32	(1) 4M x 32	NONE
64MB	(1) 4M x 32	(1) 4M x 32	(1) 4M x 32	(1) 4M x 32
64MB	(1) 8M x 32	(1) 8M x 32	NONE	NONE
66MB	(1) 8M x 32	(1) 8M x 32	(1) 256K x 32	(1) 256K x 32
68MB	(1) 8M x 32	(1) 8M x 32	(1) 1M x 32	NONE
72MB	(1) 8M x 32	(1) 8M x 32	(1) 1M x 32	(1) 1M x 32
72MB	(1) 8M x 32	(1) 8M x 32	(1) 2M x 32	NONE
80MB	(1) 8M x 32	(1) 8M x 32	(1) 2M x 32	(1) 2M x 32
80MB	(1) 8M x 32	(1) 8M x 32	(1) 4M x 32	NONE
96MB	(1) 8M x 32	(1) 8M x 32	(1) 4M x 32	(1) 4M x 32
96MB	(1) 8M x 32	(1) 8M x 32	(1) 8M x 32	NONE
128MB	(1) 8M x 32	(1) 8M x 32	(1) 8M x 32	(1) 8M x 32

CACHE CONFIGURATION	
Note: The location and chips sizes of 64/256KB cache is unidentified.	

CACHE JUMPER CONFIGURATION	
Size	E5
64KB	Open
256KB	Closed

CPU TYPE CONFIGURATION				
Type	E1	E2	E3	E10
80486SX (PQFP)	Open	pins 2 & 3 closed	pins 1 & 2 closed	Closed
ODP486SX	Open	pins 2 & 3 closed	pins 1 & 2 closed	Closed
80486DX	Open	pins 1 & 2 closed	pins 1 & 2 closed	Closed
80486DX2	Open	pins 1 & 2 closed	pins 1 & 2 closed	Closed
80486DX2 (WB)	Open	pins 1 & 2 closed	pins 2 & 3 closed	Open
80486DX4	Open	pins 1 & 2 closed	pins 1 & 2 closed	Closed
Pentium Overdrive	Open	pins 2 & 3 closed	pins 2 & 3 closed	Open

Note: E10 is not on all boards.

CPU SPEED CONFIGURATION		
Speed	E7	E9
25MHz	pins 1 & 2 closed	Closed
33MHz	pins 2 & 3 closed	Open
50iMHz	pins 1 & 2 closed	Closed
66iMHz	pins 2 & 3 closed	Open
100iMHz	pins 1 & 2 closed	Closed

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CPU SPEED CONFIGURATION (80486DX4 ONLY)	
Voltage	E4
2x	pins 2 & 3 closed
2.5x	pins 1 & 2 closed
3x	Open

CPU VOLTAGE CONFIGURATION						
Voltage	E11	E12	E13	E14	E15	E16
3v Cyrix	2 & 3	2 & 3	2 & 3	2 & 3	Open	1 & 2
3v Intel	1 & 2	1 & 2	1 & 2	1 & 2	Closed	2 & 3
5v Cyrix	2 & 3	2 & 3	2 & 3	2 & 3	Open	Open
5v Intel	1 & 2	1 & 2	1 & 2	1 & 2	Closed	Open

Note: Pins designated should be in the closed position. The location of E12 is unidentified.

VIDEO MEMORY CONFIGURATION
1024KB is factory installed and is not configurable.