EPSON, INC.
ACTION PC 7000, ENDEAVOR 486I

Processor	CX486S/80486SX/SL80486SX/SL80486SX2/CX486DX/UMCU5S/ AM486DX/80486DX/SL80486DX/CX486DX2/UMCU5DS/AM486DX2/ SL80486DX2/80486DX2/AM486DX4/80486DX4/SL80486DX4/P24D/P24T
Processor Speed	25/33/40/50(internal)/50/66(internal)/75(internal)/100(internal)MHz
Chip Set	Unidentified
Video Chip Set	Cirrus Logic
Maximum Onboard Memory	128MB
Maximum Video Memory	2MB
Cache	128/256/512KB
BIOS	Phoenix
Dimensions	254mm x 218mm
I/O Options	Floppy drive interface, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), VGA feature connector, VGA port, riser slot
NPU Options	None
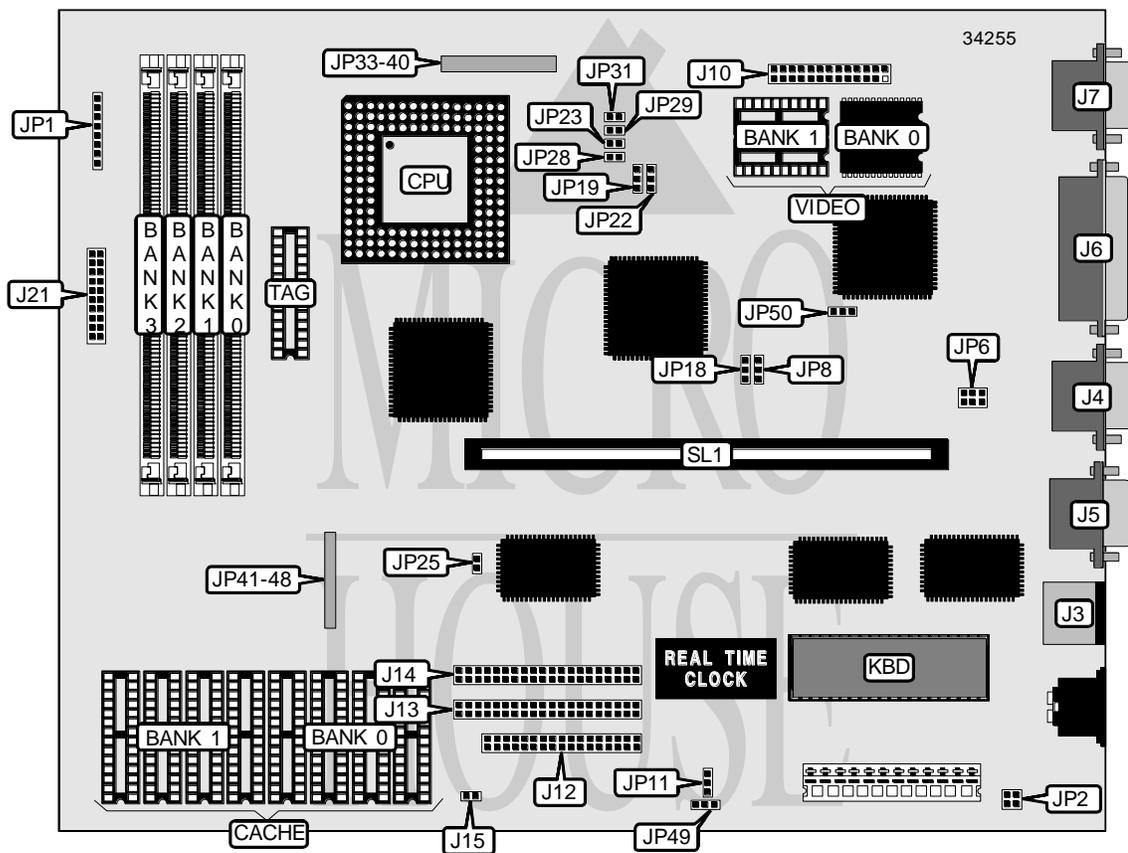
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CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
PS/2 mouse port	J3	IDE interface 2	J14
Serial port 2	J4	IDE interface LED	J15
Serial port 1	J5	Turbo LED	J21/pins 2 & 3
Parallel port	J6	Reset switch	J21/pins 9 & 10
VGA port	J7	Power LED	J21/pins 11 & 13
VGA feature connector	J10	Speaker	J21/pins 17 - 20
Floppy drive interface	J12	Riser slot	SL1
IDE interface 1	J13		

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
í On board I/O enabled	JP2	Pins 1 & 2 closed
On board I/O disabled	JP2	Pins 3 & 4 closed
í Flash BIOS voltage select 12v	JP11	Pins 2 & 3 closed
Flash BIOS voltage select 5v	JP11	Pins 1 & 2 closed
BIOS type select EPROM	JP11	Open
í PCI IDE controller enabled	JP25	Open
PCI IDE controller disabled	JP25	Closed
í Factory configured – do not alter	JP31	Unidentified
í Factory configured – do not alter	JP35	Unidentified
í CMOS memory normal operation	JP49	Open
CMOS memory clear	JP49	Closed
í On board video enabled	JP50	Pins 1 & 2 closed
On board video disabled	JP50	Pins 2 & 3 closed

DRAM CONFIGURATION				
Size	**Bank 0**	**Bank 1**	**Bank 2**	**Bank 3**
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) 256K x 36	(1) 256K x 36
4MB	(1) 256K x 36	(1) 256K x 36	(1) 512K x 36	None
4MB	(1) 512K x 36	None	(1) 512K x 36	None
4MB	(1) 512K x 36	(1) 512K x 36	None	None
4MB	(1) 1M x 36	None	None	None
6MB	(1) 256K x 36	(1) 256K x 36	(1) 512K x 36	(1) 512K x 36
6MB	(1) 256K x 36	(1) 256K x 36	(1) 1M x 36	None
6MB	(1) 512K x 36	(1) 512K x 36	(1) 512K x 36	None
6MB	(1) 512K x 36	(1) 512K x 36	(1) 256K x 36	(1) 256K x 36
8MB	(1) 512K x 36	(1) 512K x 36	(1) 512K x 36	(1) 512K x 36
8MB	(1) 512K x 36	(1) 512K x 36	(1) 1M x 36	None
8MB	(1) 1M x 36	None	(1) 1M x 36	None
8MB	(1) 1M x 36	(1) 1M x 36	None	None
8MB	(1) 2M x 36	None	None	None

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DRAM CONFIGURATION (CON'T)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
10MB	(1) 256K x 36	(1) 256K x 36	(1) 1M x 36	(1) 1M x 36
10MB	(1) 256K x 36	(1) 256K x 36	(1) 2M x 36	None
10MB	(1) 1M x 36	(1) 1M x 36	(1) 256K x 36	(1) 256K x 36
10MB	(1) 1M x 36	(1) 1M x 36	(1) 512K x 36	None
12MB	(1) 512K x 36	(1) 512K x 36	(1) 1M x 36	(1) 1M x 36
12MB	(1) 512K x 36	(1) 512K x 36	(1) 2M x 36	None
12MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36	None
12MB	(1) 1M x 36	(1) 1M x 36	(1) 512K x 36	(1) 512K x 36
16MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
16MB	(1) 1M x 36	(1) 1M x 36	(1) 2M x 36	None
16MB	(1) 2M x 36	None	(1) 2M x 36	None
16MB	(1) 2M x 36	(1) 2M x 36	None	None
16MB	(1) 4M x 36	None	None	None
18MB	(1) 256K x 36	(1) 256K x 36	(1) 2M x 36	(1) 2M x 36
18MB	(1) 256K x 36	(1) 256K x 36	(1) 4M x 36	None
18MB	(1) 2M x 36	(1) 2M x 36	(1) 256K x 36	(1) 256K x 36
18MB	(1) 2M x 36	(1) 2M x 36	(1) 512K x 36	None
20MB	(1) 512K x 36	(1) 512K x 36	(1) 2M x 36	(1) 2M x 36
20MB	(1) 512K x 36	(1) 512K x 36	(1) 4M x 36	None
20MB	(1) 2M x 36	(1) 2M x 36	(1) 512K x 36	(1) 512K x 36
20MB	(1) 2M x 36	(1) 2M x 36	(1) 1M x 36	None
24MB	(1) 1M x 36	(1) 1M x 36	(1) 2M x 36	(1) 2M 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) 2M x 36	(1) 2M x 36	(1) 1M x 36	(1) 1M x 36
32MB	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36
32MB	(1) 2M x 36	(1) 2M x 36	(1) 4M x 36	None
32MB	(1) 4M x 36	None	(1) 4M x 36	None
32MB	(1) 4M x 36	(1) 4M x 36	None	None
32MB	(1) 8M x 36	None	None	None
34MB	(1) 256K x 36	(1) 256K x 36	(1) 4M x 36	(1) 4M x 36
34MB	(1) 256K x 36	(1) 256K x 36	(1) 8M x 36	None
34MB	(1) 4M x 36	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36
34MB	(1) 4M x 36	(1) 4M x 36	(1) 512K x 36	None
36MB	(1) 512K x 36	(1) 512K x 36	(1) 4M x 36	(1) 4M x 36
36MB	(1) 512K x 36	(1) 512K x 36	(1) 8M x 36	None
36MB	(1) 4M x 36	(1) 4M x 36	(1) 512K x 36	(1) 512K x 36
36MB	(1) 4M x 36	(1) 4M x 36	(1) 1M x 36	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) 4M x 36	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36

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DRAM CONFIGURATION (CON'T)				
Size	**Bank 0**	**Bank 1**	**Bank 2**	**Bank 3**
40MB	(1) 4M x 36	(1) 4M x 36	(1) 2M x 36	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
48MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	None
48MB	(1) 4M x 36	(1) 4M x 36	(1) 2M x 36	(1) 2M x 36
64MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
64MB	(1) 4M x 36	(1) 4M x 36	(1) 8M x 36	None
64MB	(1) 8M x 36	None	(1) 8M x 36	None
64MB	(1) 8M x 36	(1) 8M x 36	None	None
66MB	(1) 256K x 36	(1) 256K x 36	(1) 8M x 36	(1) 8M x 36
66MB	(1) 8M x 36	(1) 8M x 36	(1) 256K x 36	(1) 256K x 36
66MB	(1) 8M x 36	(1) 8M x 36	(1) 512K x 36	None
68MB	(1) 8M x 36	(1) 8M x 36	(1) 512K x 36	(1) 512K x 36
68MB	(1) 8M x 36	(1) 8M x 36	(1) 1M x 36	None
72MB	(1) 1M x 36	(1) 1M x 36	(1) 8M x 36	(1) 8M x 36
72MB	(1) 8M x 36	(1) 8M x 36	(1) 1M x 36	(1) 1M x 36
72MB	(1) 8M x 36	(1) 8M x 36	(1) 2M x 36	None
80MB	(1) 2M x 36	(1) 2M x 36	(1) 8M x 36	(1) 8M x 36
80MB	(1) 8M x 36	(1) 8M x 36	(1) 2M x 36	(1) 2M x 36
80MB	(1) 8M x 36	(1) 8M x 36	(1) 4M 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) 4M x 36	(1) 4M x 36
96MB	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36	None
128MB	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36

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

CACHE JUMPER CONFIGURATION						
Size	**JP41**	**JP42**	**JP43**	**JP46**	**JP47**	**JP48**
128KB	Open	2 & 3	1 & 2	Open	Open	Open
256KB	Open	1 & 2	2 & 3	Closed	Open	Open
512KB (A)	Open	1 & 2	2 & 3	Closed	Closed	Open
512KB (B)	1 & 2	2 & 3	2 & 3	Closed	Closed	Open
Note: Pins designated should be in the closed position.						

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VIDEO MEMORY CONFIGURATION		
Size	**Bank 0**	**Bank 1**
1MB	1MB	None
2MB	1MB	(2) 256K x 16
Note: Bank 0 is factory installed and is not configurable.		

CPU SPEED SELECTION	
Speed	**JP6**
25MHz	Pins 1 & 2 closed
33MHz	Pins 1 & 2, 3 & 4, 5 & 6 closed
40MHz	Pins 1 & 2, 3 & 4 closed
50iMHz	Pins 1 & 2 closed
50MHz	Pins 5 & 6 closed
66iMHz	Pins 1 & 2, 3 & 4, 5 & 6 closed
75iMHz	Pins 1 & 2 closed
100iMHz	Pins 1 & 2, 3 & 4, 5 & 6 closed

CPU TYPE SELECTION					
Type	**JP19**	**JP22**	**JP23**	**JP28**	**JP29**
CX486S	1 & 2	2 & 3	2 & 3	Open	Open
80486SX	Open	1 & 2	Open	Open	Open
SL80486SX	1 & 2	2 & 3	Open	Open	Open
SL80486SX2	1 & 2	2 & 3	Open	Open	Open
CX486DX	1 & 2	2 & 3	2 & 3	Open	Open
UMC U5S	2 & 3	1 & 2	Open	Open	Open
AM486DX	Open	1 & 2	Open	Open	Open
80486DX	Open	1 & 2	Open	Open	Open
SL80486DX	1 & 2	2 & 3	Open	Open	Open
CX486DX2	1 & 2	2 & 3	2 & 3	Open	Open
UMC U5DS	2 & 3	1 & 2	Open	Open	Open
AM486DX2	Open	1 & 2	Open	Open	Open
SL80486DX2	1 & 2	2 & 3	Open	Open	Open
80486DX2	Open	1 & 2	Open	Open	Open
AM486DX4	Open	1 & 2	Open	Open	Open
80486DX4	Open	1 & 2	Open	Open	Open
SL80486DX4	1 & 2	2 & 3	Open	Open	Open
P24D	1 & 2	2 & 3	Open	Open	Open
P24T	1 & 2	2 & 3	1 & 2	Closed	Closed
Note: Pins designated should be in the closed position.					

CPU TYPE SELECTION (CON'T)					
Type	JP33	JP34	JP36	JP37	JP38
CX486S	1 & 2, 3 & 4	2 & 3	2 & 3	1 & 2	Open
80486SX	Open	Open	2 & 3	Open	Open
SL80486SX	2 & 3, 4 & 5	1 & 2	2 & 3	Open	Open
SL80486SX2	2 & 3, 4 & 5	1 & 2	2 & 3	Open	Open
CX486DX	1 & 2, 3 & 4	2 & 3	1 & 2, 3 & 4	2 & 3	Open
UMC U5S	Open	Open	2 & 3	3 & 4	Open
AM486DX	Open	Open	1 & 2, 3 & 4	Open	Open
80486DX	Open	Open	1 & 2, 3 & 4	Open	Open
SL80486DX	2 & 3, 4 & 5	1 & 2	1 & 2, 3 & 4	Open	Open
CX486DX2	1 & 2, 3 & 4	2 & 3	1 & 2, 3 & 4	2 & 3	Open
UMC U5DS	Open	Open	1 & 2, 3 & 4	3 & 4	Open
AM486DX2	Open	Open	1 & 2, 3 & 4	Open	Open
SL80486DX2	2 & 3, 4 & 5	1 & 2	1 & 2, 3 & 4	Open	Open
80486DX2	Open	Open	1 & 2, 3 & 4	Open	Open
AM486DX4	Open	Open	1 & 2, 3 & 4	Open	Open
80486DX4	Open	Open	1 & 2, 3 & 4	Open	Open
SL80486DX4	2 & 3, 4 & 5	1 & 2	1 & 2, 3 & 4	Open	Open
P24D	2 & 3, 4 & 5	1 & 2, 3 & 4	1 & 2, 3 & 4	Open	Closed
P24T	2 & 3, 4 & 5	1 & 2	1 & 2, 3 & 4	2 & 3	Open
Note: Pins designated should be in the closed position.					

CPU TYPE SELECTION (CON'T)				
Type	JP39	JP40	JP44	JP45
CX486S	Open	2 & 3	2 & 3	1 & 2
80486SX	Open	Open	1 & 2	1 & 2
SL80486SX	Open	Open	1 & 2	1 & 2
SL80486SX2	Open	Open	1 & 2	1 & 2
CX486DX	1 & 2	2 & 3	2 & 3	1 & 2
UMC U5S	1 & 2, 3 & 4	Open	1 & 2	2 & 3
AM486DX	1 & 2	Open	1 & 2	1 & 2
80486DX	1 & 2	Open	1 & 2	1 & 2
SL80486DX	1 & 2	Open	1 & 2	1 & 2
CX486DX2	1 & 2	2 & 3	2 & 3	1 & 2
UMC U5DS	1 & 2, 3 & 4	Open	1 & 2	2 & 3
AM486DX2	1 & 2	Open	1 & 2	1 & 2
SL80486DX2	1 & 2	Open	1 & 2	1 & 2
80486DX2	1 & 2	Open	1 & 2	1 & 2
AM486DX4	1 & 2	Open	1 & 2	1 & 2
80486DX4	1 & 2	Open	1 & 2	1 & 2
SL80486DX4	1 & 2	Open	1 & 2	1 & 2
P24D	1 & 2	Open	1 & 2	1 & 2
P24T	2 & 3	Open	1 & 2	1 & 2
Note: Pins designated should be in the closed position.				

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CPU VOLTAGE SELECTION	
Voltage	**JP1**
3.3v	Pins 1 & 2 closed
3.45v	Pins 3 & 4 closed
3.6v	Pins 5 & 6 closed
4v	Pins 7 & 8 closed
5v	Remove VRM & jumper all pins in socket.

DMA CHANNEL SELECTION		
Channel	**JP8**	**JP18**
í 1	Pins 1 & 2 closed	Pins 2 & 3 closed
3	Pins 2 & 3 closed	Pins 1 & 2 closed