OCEAN INFORMATION SYSTEMS, INC.
HIPPO 10 486

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Processor	CX486S/UMCU5/80486SX/CX486DX/(SL)AM486DX/80486DX/ (SL)80486DX/CX486DX2/(SL)AM486DX2/80486DX2/SL80486DX2/ AM486DX4/(SL)AM486DX4/80486DX4/P24D/P24T
Processor Speed	25/33/40/50(internal)/50/66(internal)/80(internal)/100(internal)MHz
Chip Set	Unidentified
Video Chip Set	None
Maximum Onboard Memory	64MB
Maximum Video Memory	None
Cache	128/256/512KB
BIOS	Unidentified
Dimensions	254mm x 218mm
I/O Options	32-bit VESA local bus slots (2), floppy drive interface, game interface, green PC connector, IDE interfaces (2), parallel port, serial ports (2)
NPU Options	None
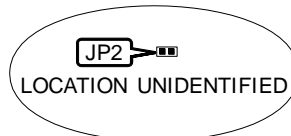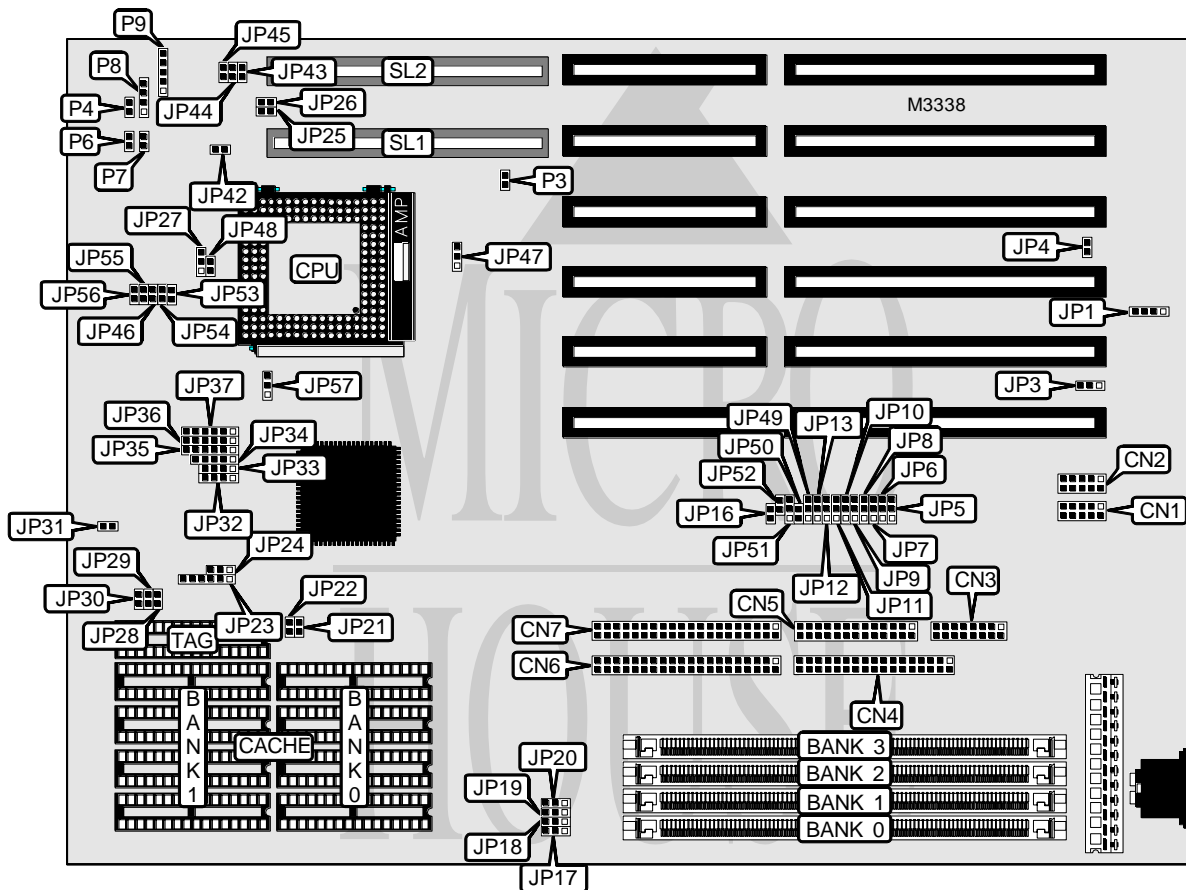
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CONNECTIONS			
Function	**Label**	**Function**	**Label**
Serial port 1	CN1	IDE interface 1	JP44
Serial port 2	CN2	IDE interface 2	JP45
Game interface	CN3	Chassis fan power	P3
Floppy drive interface	CN4	Turbo switch	P4
Parallel port	CN5	Turbo LED	P6
IDE interface 1	CN6	Reset switch	P7
IDE interface 2	CN7	Speaker	P8
External battery	JP1	Power LED & keylock	P9
Green PC connector	JP43	32-bit VESA local bus slots	SL1 & SL2

USER CONFIGURABLE SETTINGS		
Setting	**Label**	**Position**
í CMOS memory normal operation	JP1	Pins 2 & 3 closed
CMOS memory clear	JP1	Pins 3 & 4 closed
í Factory configured - do not alter	JP2	Open
í Factory configured - do not alter	JP3	Pins 1 & 2 closed
í Factory configured - do not alter	JP4	Closed
Floppy drive interface enabled	JP7	Pins 1 & 2 closed
Floppy drive interface disabled	JP7	Pins 2 & 3 closed
Parallel port address select 378H	JP8	Pins 1 & 2 closed
Parallel port address select 278H	JP8	Pins 2 & 3 closed
Game port enabled	JP9	Pins 1 & 2 closed
Game port disabled	JP9	Pins 2 & 3 closed
Serial port 1 enabled	JP10	Pins 1 & 2 closed
Serial port 1 disabled	JP10	Pins 2 & 3 closed
Serial port 1 address select 3F8 - 3FFh	JP11	Pins 1 & 2 closed
Serial port 1 address select 3E8 - 3EFh	JP11	Pins 2 & 3 closed
Serial port 2 enabled	JP12	Pins 1 & 2 closed
Serial port 2 disabled	JP12	Pins 2 & 3 closed
Serial port 2 address select 2F8 - 2FFh	JP13	Pins 1 & 2 closed
Serial port 2 address select 2E8 - 2EFh	JP13	Pins 2 & 3 closed
í Factory configured - do not alter	JP16	Open
IDE interface 2 enabled	JP19	Pins 1 & 2 closed
IDE interface 2 disabled	JP19	Pins 2 & 3 closed
IDE interface 1 enabled	JP20	Pins 1 & 2 closed
IDE interface 1 disabled	JP20	Pins 2 & 3 closed
í Factory configured - do not alter	JP31	Closed
í Factory configured - do not alter	JP42	Open
í Factory configured - do not alter	JP47	Pins 2 & 3 closed
í Factory configured - do not alter	JP49	Open
í Factory configured - do not alter	JP50	Closed
í Factory configured - do not alter	JP51	Open
í Factory configured - do not alter	JP52	Closed

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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
12MB	(1) 1M x 32	(1) 2M x 32	None	None
12MB	(1) 1M x 32	(1) 1M x 32	(1) 1M x 32	None
12MB	(1) 1M x 32	(1) 2M x 32	None	None
16MB	(1) 4M x 32	None	None	None
16MB	(1) 1M x 32	(1) 2M x 32	(1) 1M x 32	None
16MB	(1) 2M x 32	(1) 2M x 32	None	None
16MB	(1) 1M x 32	(1) 1M x 32	(1) 1M x 32	(1) 1M x 32
20MB	(1) 1M x 32	(1) 4M x 32	None	None
24MB	(1) 1M x 32	(1) 1M x 32	(1) 4M x 32	None
24MB	(1) 2M x 32	(1) 4M x 32	None	None
28MB	(1) 1M x 32	(1) 2M x 32	(1) 4M x 32	None
32MB	(1) 4M x 32	(1) 4M x 32	None	None
36MB	(1) 1M x 32	(1) 4M x 32	(1) 4M x 32	None
40MB	(1) 1M x 32	(1) 1M x 32	(1) 4M x 32	(1) 4M x 32
40MB	(1) 4M x 32	(1) 2M x 32	(1) 4M x 32	None
48MB	(1) 4M x 32	(1) 4M x 32	(1) 4M x 32	None
52MB	(1) 1M x 32	(1) 4M x 32	(1) 4M x 32	(1) 4M x 32
64MB	(1) 4M x 32	(1) 4M x 32	(1) 4M x 32	(1) 4M x 32

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

CACHE JUMPER CONFIGURATION				
Size	JP21	JP22	JP23	JP24
128KB	Open	Open	2 & 3	1 & 2
256KB (A)	Open	Closed	2 & 3, 4 & 5	1 & 2
256KB (B)	Open	Closed	3 & 4	2 & 3
512KB	Closed	Closed	1 & 2, 3 & 4, 5 & 6	1 & 2

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CPU SPEED SELECTION			
Speed	**JP28**	**JP29**	**JP30**
25MHz	Open	Open	Closed
33MHz	Closed	Closed	Closed
40MHz	Open	Closed	Closed
50iMHz	Open	Open	Closed
50MHz	Closed	Open	Open
66iMHz	Closed	Closed	Closed
80iMHz	Open	Closed	Closed
100iMHz	Closed	Closed	Closed

CPU TYPE SELECTION				
Type	**JP32**	**JP33**	**JP34**	**JP35**
CX486S	Open	2 & 3	2 & 3, 4 & 5	1 & 2, 3 & 4, 5 & 6
UMC U5	3 & 4	2 & 3	Open	2 & 3
80486SX	Open	2 & 3	Open	Open
CX486DX	1 & 2	1 & 2, 3 & 4	2 & 3	1 & 2, 3 & 4, 5 & 6
(SL)AM486DX	1 & 2	1 & 2, 3 & 4	1 & 2, 3 & 4	1 & 2
80486DX	1 & 2	1 & 2, 3 & 4	Open	Open
SL80486DX	1 & 2	1 & 2, 3 & 4	1 & 2, 3 & 4	1 & 2
CX486DX2	1 & 2	1 & 2, 3 & 4	2 & 3	1 & 2, 3 & 4, 5 & 6
AM486DX2	1 & 2, 3 & 4	1 & 2, 3 & 4	Open	2 & 3
(SL)AM486DX2	1 & 2	1 & 2, 3 & 4	1 & 2, 3 & 4	1 & 2
80486DX2	1 & 2	1 & 2, 3 & 4	Open	Open
SL80486DX2	1 & 2	1 & 2, 3 & 4	1 & 2, 3 & 4	1 & 2
AM486DX4	1 & 2, 3 & 4	1 & 2, 3 & 4	Open	2 & 3
(SL)AM486DX4	1 & 2	1 & 2, 3 & 4	1 & 2, 3 & 4	1 & 2
80486DX4	1 & 2	1 & 2, 3 & 4	1 & 2, 3 & 4	1 & 2
P24D	1 & 2	1 & 2, 3 & 4	1 & 2, 3 & 4	1 & 2, 4 & 5
P24T	2 & 3	1 & 2, 3 & 4	1 & 2, 3 & 4	1 & 2
Note: Pins designated should be in the closed position.				

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CPU TYPE SELECTION (CON'T)			
Type	**JP36**	**JP37**	**JP57**
CX486S	2 & 3, 4 & 5	1 & 2, 3 & 4, 5 & 6	Open
UMC U5	1 & 2	2 & 3	Open
80486SX	Open	2 & 3	Open
CX486DX	2 & 3, 4 & 5	1 & 2, 3 & 4, 5 & 6	Open
(SL)AM486DX	5 & 6	1 & 2	Open
80486DX	Open	2 & 3	Open
SL80486DX	5 & 6	1 & 2	Open
CX486DX2	2 & 3, 4 & 5	1 & 2, 3 & 4, 5 & 6	Open
AM486DX2	1 & 2	2 & 3	2 & 3
(SL)AM486DX2	5 & 6	1 & 2	Open
80486DX2	Open	2 & 3	Open
SL80486DX2	5 & 6	1 & 2	Open
AM486DX4	1 & 2	2 & 3	1 & 2
(SL)AM486DX4	5 & 6	1 & 2	Open
80486DX4	5 & 6	1 & 2	Open
P24D	3 & 4, 5 & 6	1 & 2, 4 & 5	Open
P24T	5 & 6	1 & 2	Open
Note: Pins designated should be in the closed position.			

CPU MULTIPLIER SELECTION	
Multiplier	**JP27**
2x	Pins 2 & 3 closed
2.5x	Pins 1 & 2 closed
3x	Open

CPU VOLTAGE SELECTION						
Voltage	**JP46**	**JP48**	**JP53**	**JP54**	**JP55**	**JP56**
3.45v/5v (auto)	Open	Open	Closed	Open	Open	Open
3.3v (fixed)	Open	Closed	Open	Open	Open	Open
3.45v (fixed)	Open	Open	Open	Open	Open	Open
3.6v (fixed)	Closed	Open	Open	Open	Open	Open
3.8v (fixed)	Open	Open	Open	Open	Closed	Open
4v (fixed)	Open	Open	Open	Open	Open	Closed
5v (fixed)	Open	Open	Open	Closed	Open	Open

VL BUS WAIT STATE SELECTION	
Setting	**JP25**
0	Open
1	Closed

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VL-BUS SPEED SELECTION	
Setting	**JP26**
<= 33MHz	Open
>33 MHz	Closed

IDE SPEED SELECTION		
Speed	JP17	JP18
Slow	Pins 1 & 2 closed	Pins 2 & 3 closed
Slower	Pins 1 & 2 closed	Pins 1 & 2 closed
Fast	Pins 2 & 3 closed	Pins 1 & 2 closed
Faster	Pins 2 & 3 closed	Pins 2 & 3 closed

PARALLEL PORT SELECTION		
Setting	JP5	JP6
Disabled	Pins 2 & 3 closed	Pins 2 & 3 closed
SPP mode	Pins 1 & 2 closed	Pins 2 & 3 closed
EPP mode	Pins 2 & 3 closed	Pins 1 & 2 closed
ECP mode	Pins 1 & 2 closed	Pins 1 & 2 closed