SHUTTLE COMPUTER INTERNATIONAL, INC.
H O T - 4 1 9

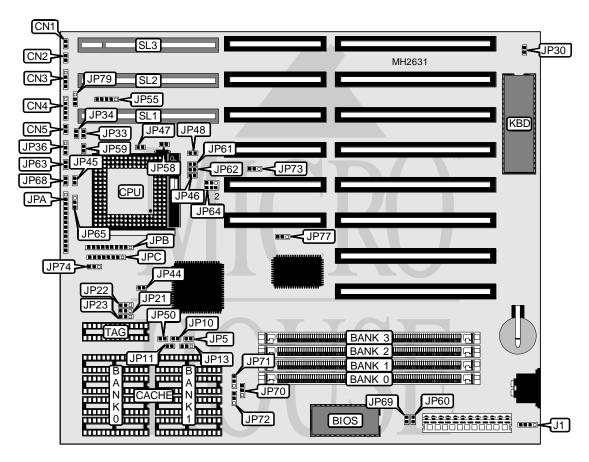|	
Processor	CX486S/80486SX/SL80486SX/UMC U5-S/CX486DX/AM486DX/80486DX/ SL80486DX/CX486DX2/AM486DX2/80486DX2/SL80486DX2/P24D/ AM486DX4/SL80486DX4/Pentium Overdrive
Processor Speed	20/25/33/40/50(internal)/66(internal/75(internal)/100(internal)MHz
Chip Set	OPTI
Max. Onboard DRAM	128MB
Cache	64/128/256/512KB
BIOS	AMI
Dimensions	260mm x 220mm
I/O Options	32-bit VESA local bus slots (3)
NPU Options	NONE

CONNECTIONS			
Purpose	Location	Purpose	Location
Reset switch	CN1	External battery	J1
Turbo switch	CN2	Green PC connector	JP63
Speaker	CN3	EPMI connector	JP68
Power LED & keylock	CN4	32-bit VESA local bus slots	SL1 - SL3
Turbo LED	CN5		

SHUTTLE COMPUTER INTERNATIONAL, INC.
HOT-419

USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
i Monitor type select color	JP30	Closed
Monitor type select monochrome	JP30	Open
i ADS signal delay disabled	JP36	pins 2 & 3 closed
ADS signal delay enabled	JP36	pins 1 & 2 closed
i Factory configured - do not alter	JP53	N/A
i P24T CPU cache type select write back	JP58	Closed
P24T CPU cache type select write through	JP58	Open
i P24D CPU cache type select write back	JP59	Closed
P24D CPU cache type select write through	JP59	Open
i Factory configured - do not alter	JP67	N/A
i Factory configured - do not alter	JP74	N/A
i Factory configured - do not alter	JP77	N/A
i Factory configured - do not alter	JP79	N/A
Note: The location of JP53 JP58 and JP67 is unidentified.		

DRAM CONFIGURATION 1				
Size	Bank 0	Bank 1	Bank 2	Bank 3
1MB	(1) 256K x 36	NONE	NONE	NONE
2MB	(1) 256K x 36	(1) 256K x 36	NONE	NONE
4MB	(1) 1M x 36	NONE	NONE	NONE
4MB	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
5MB	(1) 256K x 36	(1) 1M x 36	NONE	NONE
6MB	(1) 256K x 36	(1) 256K x 36	(1) 1M x 36	NONE
8MB	(1) 1M x 36	(1) 1M x 36	NONE	NONE
8MB	(1) 1M x 36	NONE	(1) 1M x 36	NONE
10MB	(1) 256K x 36	(1) 256K x 36	(1) 1M x 36	(1) 1M x 36
12MB	(1) 1M x 36	NONE	(1) 1M x 36	(1) 1M x 36
16MB	(1) 4M x 36	NONE	NONE	NONE
16MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
17MB	(1) 256K x 36	(1) 4M x 36	NONE	NONE
20MB	(1) 1M x 36	(1) 4M x 36	NONE	NONE
20MB	(1) 1M x 36	NONE	(1) 4M x 36	NONE
32MB	(1) 4M x 36	(1) 4M x 36	NONE	NONE
32MB	(1) 4M x 36	NONE	(1) 4M x 36	NONE
64MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
64MB	(1) 16M x 36	NONE	NONE	NONE
128MB	(1) 16M x 36	(1) 16M x 36	NONE	NONE
128MB	(1) 16M x 36	NONE	(1) 16M x 36	NONE

DRAM CONFIGURATION 2				
Size	Bank 0	Bank 1	Bank 2	Bank 3
1MB	(1) 256K x 36	NONE	NONE	NONE
2MB	(1) 512K x 36	NONE	NONE	NONE
4MB	(1) 512K x 36	(1) 512K x 36	NONE	NONE
4MB	(1) 1M x 36	NONE	NONE	NONE

SHUTTLE COMPUTER INTERNATIONAL, INC.
HOT-419

DRAM CONFIGURATION 2 (CON'T)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
6MB	(1) 512K x 36	(1) 1M x 36	NONE	NONE
6MB	(1) 512K x 36	(1) 512K x 36	(1) 512K x 36	NONE
8MB	(1) 2M x 36	NONE	NONE	NONE
8MB	(1) 1M x 36	(1) 1M x 36	NONE	NONE
12MB	(1) 1M x 36	(1) 2M x 36	NONE	NONE
12MB	(1) 512K x 36	(1) 512K x 36	(1) 2M x 36	NONE
16MB	(1) 2M x 36	(1) 2M x 36	NONE	NONE
16MB	(1) 1M x 36	(1) 1M x 36	(1) 2M x 36	NONE
20MB	(1) 1M x 36	(1) 4M x 36	NONE	NONE
20MB	(1) 1M x 36	(1) 2M x 36	(1) 2M x 36	NONE
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
32MB	(1) 8M x 36	NONE	NONE	NONE
32MB	(1) 4M x 36	(1) 4M x 36	NONE	NONE
32MB	(1) 2M x 36	(1) 2M x 36	(1) 4M x 36	NONE
40MB	(1) 1M x 36	(1) 1M x 36	(1) 8M x 36	NONE
48MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	NONE
48MB	(1) 2M x 36	(1) 2M x 36	(1) 8M x 36	NONE
64MB	(1) 4M x 36	(1) 4M x 36	(1) 8M x 36	NONE
64MB	(1) 16M x 36	NONE	NONE	NONE
64MB	(1) 8M x 36	(1) 8M x 36	NONE	NONE
96MB	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36	NONE
128MB	(1) 16M x 36	(1) 16M x 36	NONE	NONE

DRAM JUMPER CONFIGURATION						
Type	JP60	JP61	JP62	JP70	JP71	JP72
1	Closed	Closed	Closed	pins 1 & 2 closed	pins 1 & 2 closed	pins 1 & 2 closed
2	Open	Open	Open	pins 2 & 3 closed	pins 2 & 3 closed	pins 2 & 3 closed

CACHE CONFIGURATION			
Size	Bank 0	Bank 1	TAG
64KB	(4) 8K x 8	(4) 8K x 8	(1) 8K x 8
128KB	(4) 32K x 8	NONE	(1) 32K x 8
256KB	(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	JP5	JP10	JP11	JP13	JP50
64KB	Open	Open	Open	Pins 2 & 3 closed	Open
128KB	Open	Open	Closed	Pins 1 & 2 closed	Open
256KB	Open	Closed	Closed	Pins 2 & 3 closed	Open
512KB	Open	Closed	Closed	Pins 1 & 2 closed	Closed
Note: JP5 may not be present on all revisions.					

SHUTTLE COMPUTER INTERNATIONAL, INC.
HOT-419

CPU TYPE CONFIGURATION		
Type	JPA	JPB
CX486S	6 & 7, 8 & 9, 10 & 11, 12 & 13	Open
80486SX	6 & 7, 8 & 9, 10 & 11, 12 & 13	3 & 4, 5 & 6, 7 & 8, 9 & 10
SL80486SX	6 & 7, 8 & 9, 10 & 11, 12 & 13	3 & 4, 5 & 6, 7 & 8, 9 & 10
UMC U5-S	6 & 7, 8 & 9, 10 & 11, 12 & 13	3 & 4, 5 & 6, 7 & 8, 9 & 10
CX486DX	5 & 6, 7 & 8, 9 & 10, 11 & 12	Open
AM486DX	5 & 6, 7 & 8, 9 & 10, 11 & 12	1 & 2, 3 & 4, 5 & 6, 7 & 8
80486DX	5 & 6, 7 & 8, 9 & 10, 11 & 12	3 & 4, 5 & 6, 7 & 8, 9 & 10
SL80486DX	5 & 6, 7 & 8, 9 & 10, 11 & 12	3 & 4, 5 & 6, 7 & 8, 9 & 10
CX486DX2	5 & 6, 7 & 8, 9 & 10, 11 & 12	Open
AM468DX2	5 & 6, 7 & 8, 9 & 10, 11 & 12	1 & 2, 3 & 4, 5 & 6, 7 & 8
80486DX2	5 & 6, 7 & 8, 9 & 10, 11 & 12	3 & 4, 5 & 6, 7 & 8, 9 & 10
SL80486DX2	5 & 6, 7 & 8, 9 & 10, 11 & 12	3 & 4, 5 & 6, 7 & 8, 9 & 10
P24D	1 & 2, 3 & 4, 5 & 6, 7 & 8	3 & 4, 5 & 6, 7 & 8, 9 & 10
AM486DX4	5 & 6, 7 & 8, 9 & 10, 11 & 12	1 & 2, 3 & 4, 5 & 6, 7 & 8
SL80486DX4	5 & 6, 7 & 8, 9 & 10, 11 & 12	3 & 4, 5 & 6, 7 & 8, 9 & 10
P24T	3 & 4, 5 &6, 7 & 8, 9 & 10	3 & 4, 5 & 6, 7 & 8, 9 & 10
Note: Pins designated should be in closed position.		

CPU TYPE CONFIGURATION (CON'T)				
Type	JPC	JP44	JP45	JP46
CX486S	1 & 2, 3 & 4, 5 & 6, 7 & 8	Open	Open	Open
80486SX	Open	Open	Open	Open
SL80486SX	Open	Closed	Closed	Closed
UMC U5-S	Open	Open	Open	Open
CX486DX	1 & 2, 3 & 4, 5 & 6, 7 & 8	Open	Open	Open
AM486DX	Open	Open	Open	Open
80486DX	Open	Open	Open	Open
SL80486DX	Open	Closed	Closed	Closed
CX486DX2	1 & 2, 3 & 4, 5 & 6, 7 & 8	Open	Open	Open
AM468DX2	Open	Open	Open	Open
80486DX2	Open	Open	Open	Open
SL80486DX2	Open	Closed	Closed	Closed
P24D	Open	Closed	Closed	Closed
AM486DX4	Open	Open	Open	Open
SL80486DX4	Open	Closed	Closed	Closed
P24T	Open	Closed	Closed	Closed
Note: Pins designated should be in closed position.				

SHUTTLE COMPUTER INTERNATIONAL, INC.
HOT-419

CPU TYPE CONFIGURATION (CON'T)			
Type	JP47	JP48	JP65
CX486S	Closed	Closed	Open
80486SX	Open	Open	Open
SL80486SX	Open	Open	Open
UMC U5-S	Open	Open	Open
CX486DX	Closed	Closed	Open
AM486DX	Open	Open	Open
80486DX	Open	Open	Open
SL80486DX	Open	Open	Open
CX486DX2	Closed	Closed	Open
AM468DX2	Open	Open	Open
80486DX2	Open	Open	Open
SL80486DX2	Open	Open	Open
P24D	Open	Open	Open
AM486DX4	Open	Open	Open
SL80486DX4	Open	Open	Open
P24T	Open	Open	Open
Note: Pins designated should be in closed position.			

CPU SPEED CONFIGURATION			
Speed	JP21	JP22	JP23
20MHz	pins 2 & 3 closed	pins 2 & 3 closed	pins 1 & 2 closed
25MHz	pins 2 & 3 closed	pins 1 & 2 closed	pins 2 & 3 closed
33MHz	pins 1 & 2 closed	pins 2 & 3 closed	pins 2 & 3 closed
40MHz	pins 2 & 3 closed	pins 1 & 2 closed	pins 1 & 2 closed
50iMHz	pins 2 & 3 closed	pins 1 & 2 closed	pins 2 & 3 closed
50MHz	pins 1 & 2 closed	pins 2 & 3 closed	pins 1 & 2 closed
66iMHz	pins 1 & 2 closed	pins 2 & 3 closed	pins 2 & 3 closed
75iMHz	pins 2 & 3 closed	Open	pins 2 & 3 closed
100iMHz	Open	pins 2 & 3 closed	pins 2 & 3 closed
100iMHz	Open	pins 2 & 3 closed	Open

CPU SPEED CONFIGURATION (80486DX4 ONLY)	
Speed	JP65
2x	pins 1 & 2 closed
3x	pins 2 & 3 closed

CPU VOLTAGE CONFIGURATION		
CPU Voltage	JP64	JP73
3.33v	pins 3 & 5, 4 & 6 closed	pins 1 & 2 closed
3.45v	pins 3 & 5, 4 & 6 closed	Open
4.0v	pins 3 & 5, 4 & 6 closed	pins 2 & 3 closed
5.0v	pins 1 & 3, 2 & 4 closed	Open

SHUTTLE COMPUTER INTERNATIONAL, INC.
HOT-419

CPU SIGNAL DELAY CONFIGURATION		
CPU Delay	JP55	JP69
Delay 1	pins 1 & 2, 3 & 4 closed	Open
Delay 2	pins 2 & 3 closed	Closed

VESA WAIT STATE CONFIGURATION	
Wait states	JP33
0 wait states	Open
1 wait state	Closed

BUS SPEED CONFIGURATION	
CPU speed	JP34
<= 33MHz	Open
> 33MHz	Closed