ATRONICS INTERNATIONAL, INC.
4 8 6 / B 2

Processor	80486SX/80487SX/80486DX/ODP486SX/80486DX2
Processor Speed	20/25/33/40(internal)/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 external memory card slot
NPU Options	4167
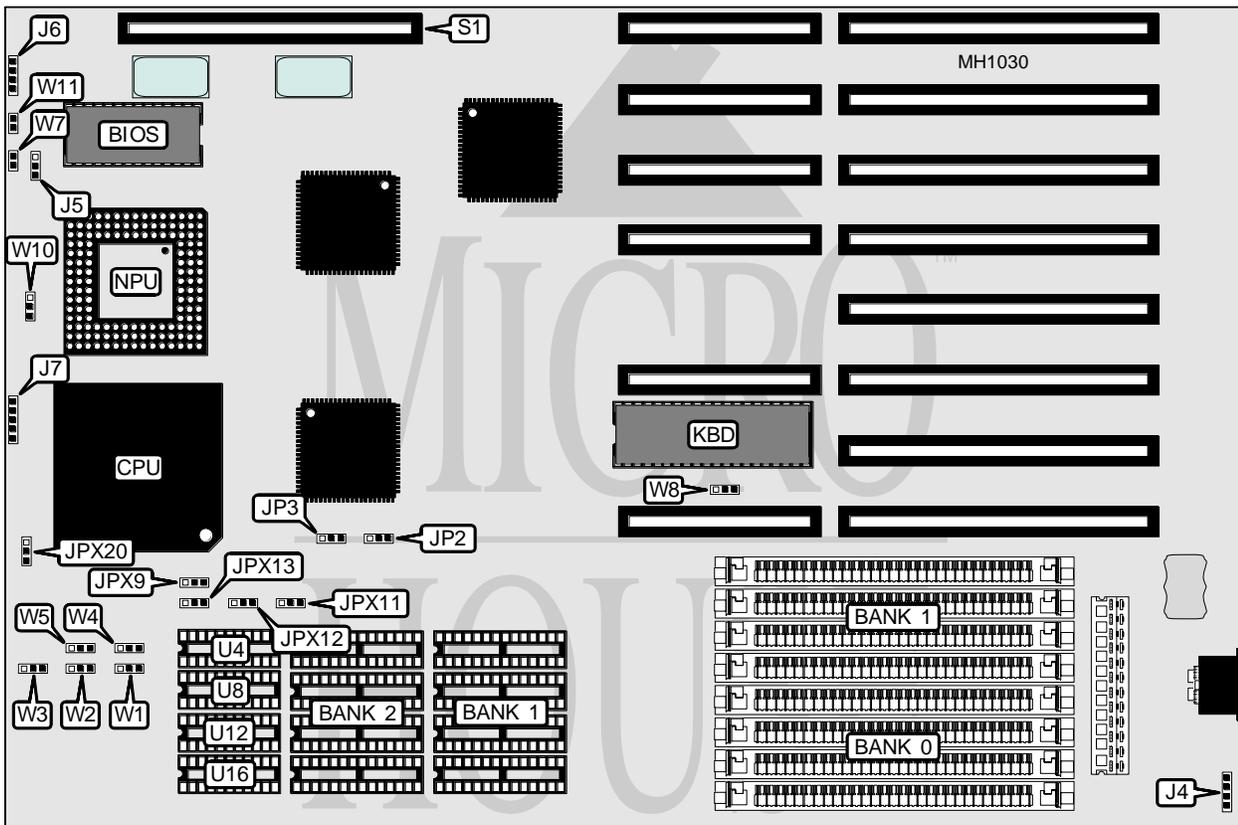
CONNECTIONS			
Purpose	Location	Purpose	Location
External battery	J4	32-bit external memory card	S1
Turbo switch	J5	Reset switch	W7
Speaker	J6	Turbo LED	W11
Power LED & keylock	J7		

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USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
í CPU speed select iOSC/1	JPX20	pins 2 & 3 closed
CPU speed select iOSC/2	JPX20	pins 1 & 2 closed
í Monitor type select color	W8	pins 1 & 2 closed
Monitor type select monochrome	W8	pins 2 & 3 closed

DRAM CONFIGURATION		
Size	Bank 0	Bank 1
1MB	(4) 256K x 9	NONE
2MB	(4) 256K x 9	(4) 256K x 9
4MB	(4) 1M x 9	NONE
5MB	(4) 256K x 9	(4) 1M x 9
8MB	(4) 1M x 9	(4) 1M x 9
16MB	(4) 4M x 9	NONE
20MB	(4) 1M x 9	(4) 4M x 9
32MB	(4) 4M x 9	(4) 4M x 9

DRAM JUMPERCONFIGURATION		
Size	JP2	JP3
On board memory used	pins 2 & 3 closed	pins 2 & 3 closed
No on board memory used	pins 1 & 2 closed	pins 1 & 2 closed

CACHE CONFIGURATION			
Size	Bank 0	Bank 1	TAG (U4, U8 & U16)
32KB	(4) 8K x 8	NONE	(3) 16K x 4
64KB	(4) 8K x 8	(4) 8K x 8	(3) 16K x 4
128KB	(4) 32K x 8	NONE	(3) 16K x 4
256KB	(4) 32K x 8	(4) 32K x 8	(3) 16K x 4

Note :   If more then 16MB of DRAM is being cached, an additional 16K x 4 TAG chip must be installed at U12.

CACHE JUMPER CONFIGURATION						
Size	W1	W2	W3	W4	W5	W10
32KB	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3
64KB	1 & 2	2 & 3	2 & 3	1 & 2	1 & 2	1 & 2
128KB	2 & 3	2 & 3	1 & 2	2 & 3	1 & 2	1 & 2
256KB	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2

Note :   Pins designated should be in the closed position,

CPU TYPE CONFIGURATION				
Type	JPX9	JPX11	JPX12	JPX13
80486SX	pins 2 & 3 closed	pins 1 & 2 closed	pins 1 & 2 closed	pins 1 & 2 closed
ODP486SX	pins 1 & 2 closed	pins 2 & 3 closed	pins 2 & 3 closed	pins 1 & 2 closed
80487SX	pins 1 & 2 closed	pins 2 & 3 closed	pins 2 & 3 closed	pins 1 & 2 closed
80486DX	pins 2 & 3 closed	pins 2 & 3 closed	pins 2 & 3 closed	pins 2 & 3 closed
80486DX2	pins 2 & 3 closed	pins 2 & 3 closed	pins 2 & 3 closed	pins 2 & 3 closed