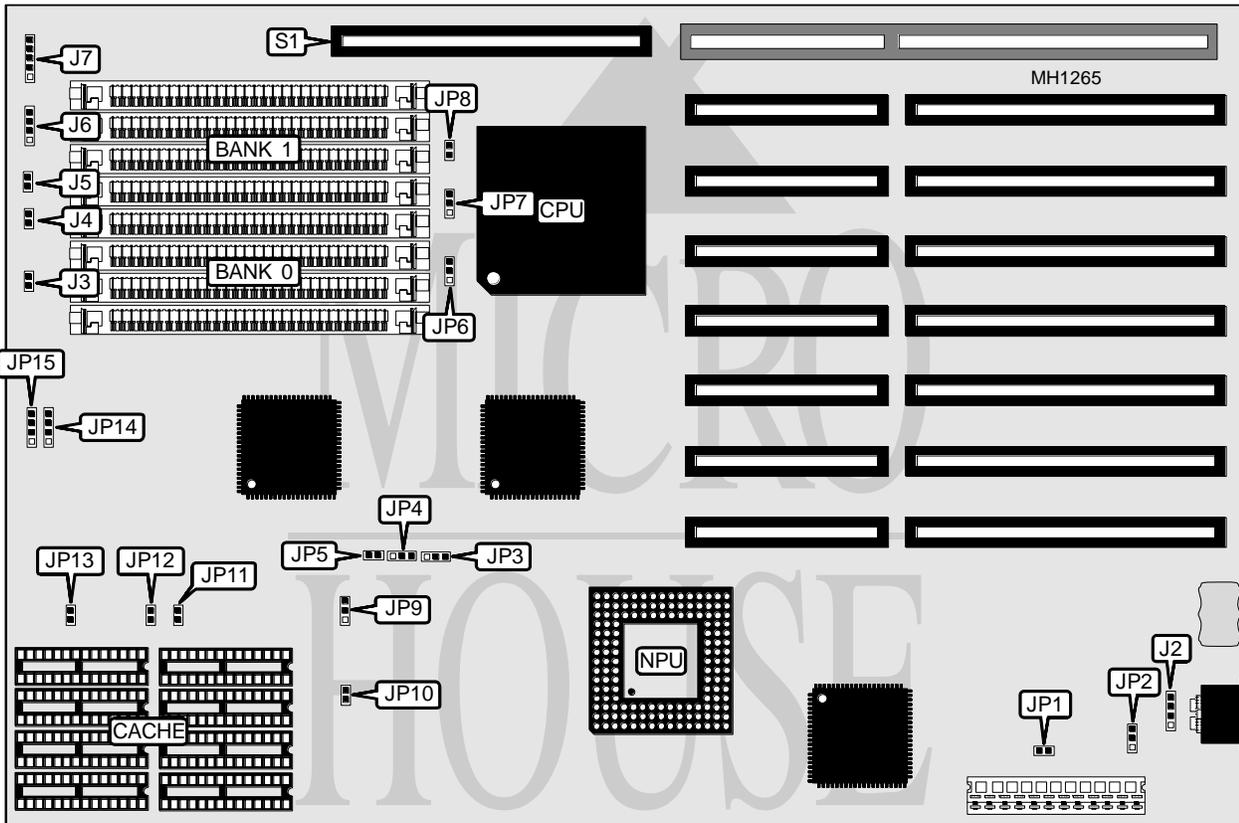


ATEN RESEARCH, INC. 486 LOCAL BUS MAINBOARD

Processor	80486SX/80486DX/80486DX2
Processor Speed	20/25/33/50(internal)/50/66(internal)MHz
Chip Set	OPTI
Max. Onboard DRAM	64MB
Cache	64/256KB
BIOS	AMI
Dimensions	330mm x 218mm
I/O Options	32-bit local bus card slot
NPU Options	4167



CONNECTIONS			
Purpose	Location	Purpose	Location
External battery	J2 pins 1 & 4	Speaker	J6
Turbo switch	J3	Power LED & keylock	J7
Reset switch	J4	32-bit local bus card	S1
Turbo LED	J5		

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USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
í Battery type select internal	J2	pins 2 & 3 closed
Battery type select external	J2	pins 1 & 4 connected
í Monitor type select color	JP1	closed
Monitor type select monochrome	JP1	open
í CMOS memory normal operation	JP2	pins 1 & 2 closed
CMOS memory clear	JP2	pins 2 & 3 closed
í VGA card type select ISA	JP3	pins 1 & 2 closed
	JP4	pins 1 & 2 closed
VGA card type select local bus with ET 4000 chipset	JP3	pins 2 & 3 closed
	JP4	pins 2 & 3 closed
VGA card type select local bus with S3 chipset	JP3	pins 2 & 3 closed
	JP4	pins 1 & 2 closed
í I/O Bus speed select ATCLK/4	JP5	open
I/O Bus speed select ATCLK/6	JP5	closed
í CPU speed select iOSC/2	JP9	pins 2 & 3 closed
CPU speed select iOSC/1	JP9	pins 1 & 2 closed

CPU CONFIGURATION			
CPU Type	JP6	JP7	JP8
80486DX2	pins 1 & 2 closed	pins 2 & 3 closed	closed
80486DX	pins 1 & 2 closed	pins 2 & 3 closed	closed
80486SX	pins 2 & 3 closed	open	open

SRAM JUMPER CONFIGURATION				
Size	JP10	JP11	JP12	JP13
64KB	open	open	open	open
256KB	closed	closed	open	closed

SRAM CONFIGURATION			
Size	Cache SRAM	TAG (U46)	TAG (U47)
64KB	(8) 8K x 8	(1) 64K x 1	(1) 8K x 8
256KB	(8) 32K x 8	(1) 64K x 1	(1) 32K x 8

Note: Locations of U46 and U47 are unknown.

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DRAM CONFIGURATION				
Size	Bank 0	Bank 1	Bank 2	Bank 3
1MB	(4) 256K x 9	NONE	NONE	NONE
2MB	(4) 256K x 9	(4) 256K x 9	NONE	NONE
3MB	(4) 256K x 9	(4) 256K x 9	(4) 256K x 9	NONE
4MB	(4) 256K x 9			
5MB	(4) 1M x 9	(4) 256K x 9	NONE	NONE
6MB	(4) 256K x 9	(4) 256K x 9	(4) 1M x 9	NONE
7MB	(4) 256K x 9	(4) 256K x 9	(4) 256K x 9	(4) 1M x 9
8MB	(4) 1M x 9	(4) 1M x 9	NONE	NONE
9MB	(4) 256K x 9	(4) 1M x 9	(4) 1M x 9	NONE
10MB	(4) 256K x 9	(4) 256K x 9	(4) 1M x 9	(4) 1M x 9
12MB	(4) 1M x 9	(4) 1M x 9	(4) 1M x 9	NONE
13MB	(4) 256K x 9	(4) 1M x 9	(4) 1M x 9	(4) 1M x 9
16MB	(4) 1M x 9			
16MB	(4) 4M x 9	NONE	NONE	NONE
20MB	(4) 1M x 9	(4) 4M x 9	NONE	NONE
24MB	(4) 1M x 9	(4) 1M x 9	(4) 4M x 9	NONE
28MB	(4) 1M x 9	(4) 1M x 9	(4) 1M x 9	(4) 4M x 9
32MB	(4) 4M x 9	(4) 4M x 9	NONE	NONE
36MB	(4) 1M x 9	(4) 4M x 9	(4) 4M x 9	NONE
40MB	(4) 1M x 9	(4) 1M x 9	(4) 4M x 9	(4) 4M x 9
48MB	(4) 4M x 9	(4) 4M x 9	(4) 4M x 9	NONE
52MB	(4) 1M x 9	(4) 4M x 9	(4) 4M x 9	(4) 4M x 9
64MB	(4) 4M x 9			