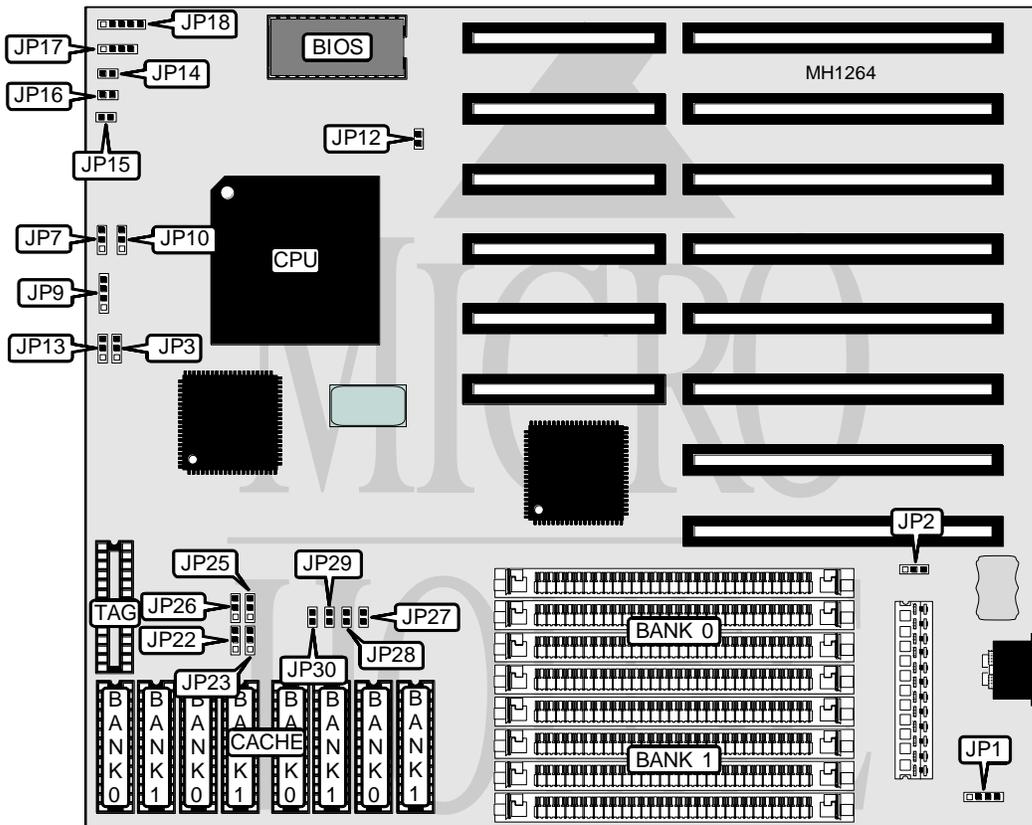


ATEN RESEARCH, INC.

486DX/486SX CACHE MAINBOARD

Processor	80486SX/80487SX/80486DX/80486DX2
Processor Speed	20/25/33/50(internal)/50/66(internal)MHz
Chip Set	UNI
Max. Onboard DRAM	128MB
Cache	32/64/128/256KB
BIOS	Award
Dimensions	330mm x 218mm
I/O Options	None
NPU Options	None



CONNECTIONS			
Purpose	Location	Purpose	Location
External battery	JP1	Turbo LED	JP16
Reset switch	JP14	Speaker	JP17
Turbo switch	JP15	Power LED & keylock	JP18

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ATEN RESEARCH, INC.

486DX/486SX CACHE MAINBOARD

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USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
í CMOS memory normal operation	JP2	pins 1 & 2 closed
CMOS memory clear	JP2	pins 2 & 3 closed
í CPU speed (external) select 16/20/25/33/40MHz	JP3	pins 1 & 2 closed
CPU speed (external) select 50MHz	JP3	pins 2 & 3 closed
í Monitor type select color	JP12	open
Monitor type select monochrome	JP12	closed

CPU TYPE CONFIGURATION			
Jumper	JP7	JP9	JP13
80486DX2	pins 1 & 2 closed	pins 1 & 2 and 3 & 4 closed	pins 1 & 2 closed
80486DX	pins 1 & 2 closed	pins 1 & 2 and 3 & 4 closed	pins 1 & 2 closed
80487SX	pins 2 & 3 closed	pins 1 & 2 and 3 & 4 closed	pins 1 & 2 closed
80486SX	open	pins 2 & 3 closed	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
64MB	(4) 16M x 9	NONE
128MB	(4) 16M x 9	(4) 16M x 9

SRAM JUMPER CONFIGURATION				
Jumper	32KB	64KB	128KB	256KB
JP22	pins 2 & 3 closed	pins 2 & 3 closed	pins 2 & 3 closed	pins 1 & 2 closed
JP23	pins 2 & 3 closed	pins 2 & 3 closed	pins 1 & 2 closed	pins 2 & 3 closed
JP25	pins 1 & 2 closed	pins 2 & 3 closed	pins 2 & 3 closed	pins 2 & 3 closed
JP26	pins 2 & 3 closed	pins 1 & 2 closed	pins 2 & 3 closed	pins 2 & 3 closed
JP27	closed	open	open	open
JP28	open	closed	open	open
JP29	open	open	closed	open
JP30	open	open	open	closed

SRAM CONFIGURATION			
Size	Cache SRAM	Location	TAG
32KB	(4) 8K x 8	Bank 0	(1) 8K x 8
64KB	(8) 8K x 8	Banks 0 & 1	(1) 8K x 8
128KB	(4) 32K x 8	Bank 0	(1) 32K x 8
256KB	(8) 32K x 8	Banks 0 & 1	(1) 32K x 8