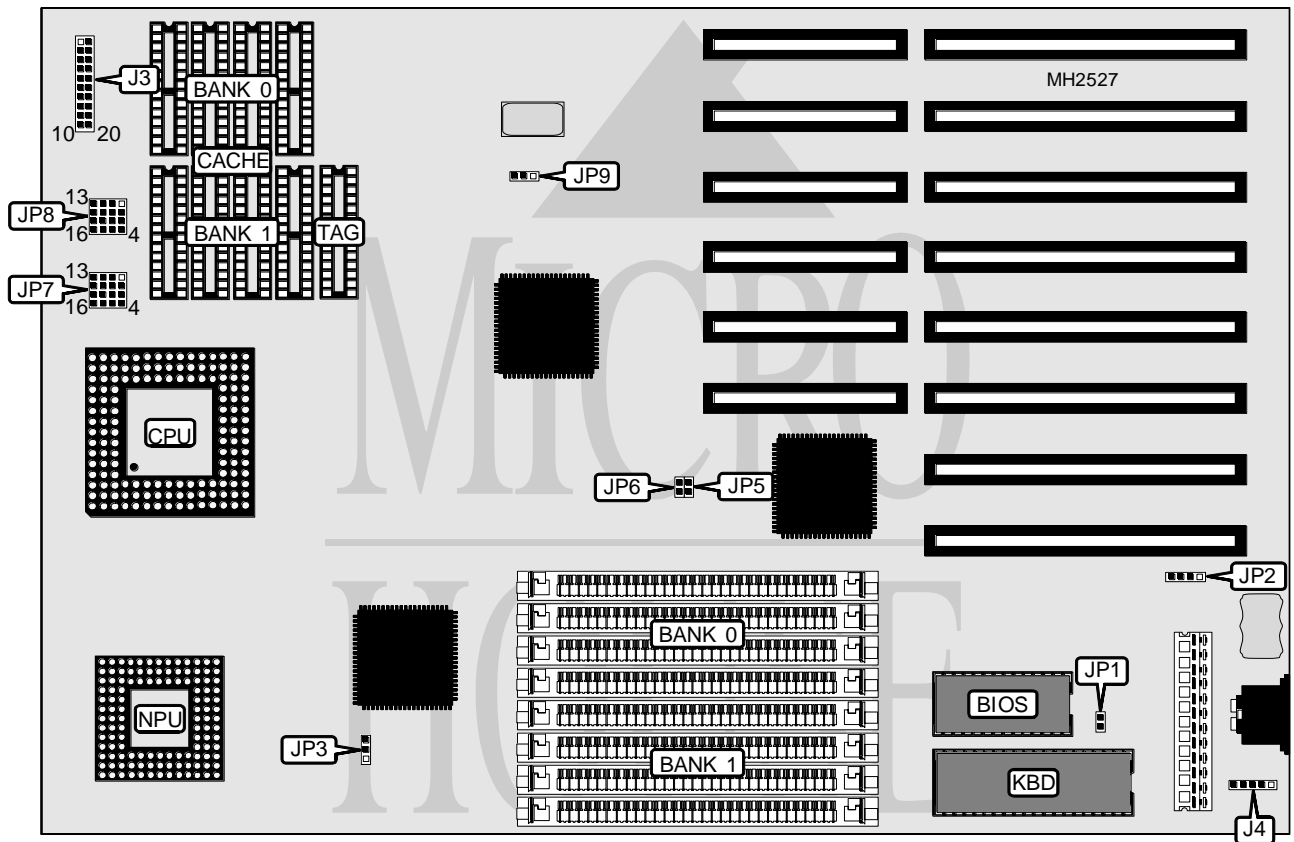


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MS - 4109

Processor	80486SX/80487SX/80486DX
Processor Speed	16/20/25/33/50MHz
Chip Set	Contaq
Max. Onboard DRAM	32MB
Cache	64/256KB
BIOS	AMI
Dimensions	330mm x 218mm
I/O Options	None
NPU Options	4167



CONNECTIONS			
Purpose	Location	Purpose	Location
Power LED & keylock	J3 pins 1 - 5	Reset switch	J3 pins 19 - 20
Speaker	J3 pins 7 - 10	Auxiliary keyboard connector	J4
Turbo LED	J3 pins 12 - 13	External battery	JP2
Turbo switch	J3 pins 15 - 17		

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USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
í Monitor type select monochrome	JP1	Open
Monitor type select CGA	JP1	Closed
í Battery type select internal	JP2	pins 2 & 3 closed
Battery type select external	JP2	pins 1 & 4 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) 1M x 9	(4) 256K x 9
8MB	(4) 1M x 9	(4) 1M x 9
16MB	(4) 4M x 9	NONE
17MB	(4) 4M x 9	(4) 256K x 9
20MB	(4) 4M x 9	(4) 1M x 9
32MB	(4) 4M x 9	(4) 4M x 9

CACHE CONFIGURATION			
Size	Bank 0	Bank 1	TAG
64KB	(4) 8K x 8	(4) 8K x 8	(1) 8K x 8
256KB	(4) 32K x 8	(4) 32K x 8	(1) 32K x 8

CACHE JUMPER CONFIGURATION	
Size	JP8
64KB	pins 1 & 5, 3 & 7, 9 & 13, 11 & 15 closed
256KB	pins 2 & 6, 4 & 8, 10 & 14, 12 & 16 closed

CPU TYPE CONFIGURATION	
Type	JP7
80486SX	pins 2 & 6, 4 & 8, 10 & 14, 12 & 16 closed
80487SX	pins 1 & 2, 3 & 4, 9 & 10, 11 & 12 closed
80486DX	pins 1 & 2, 3 & 4, 13 & 14, 15 & 16 closed

CPU SPEED CONFIGURATION	
Speed	JP9
16MHz	pins 1 & 2 closed
20MHz	pins 1 & 2 closed
25MHz	pins 2 & 3 closed
33MHz	pins 2 & 3 closed
50MHz	pins 2 & 3 closed

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CPU CLOCK SPEED CONFIGURATION			
Speed	JP3	JP5	JP6
16MHz (asynchronous)	pins 2 & 3 closed	Open	Open
20MHz (synchronous)	pins 1 & 2 closed	Open	Open
25MHz (synchronous)	pins 1 & 2 closed	Closed	Open
33MHz (synchronous)	pins 1 & 2 closed	Open	Closed
50MHz (synchronous)	pins 1 & 2 closed	Closed	Closed