NORTHGATE COMPUTER SYSTEMS, INC.
386/486/486SX (486 BOARD)

Processor	80486SX/80486DX
Processor Speed	20/33MHz
Chip Set	OPTI
Max. Onboard DRAM	32MB
Cache	64KB
BIOS	AMI
Dimensions	330mm x 218mm
I/O Options	32-bit external memory card slot
NPU Options	4167
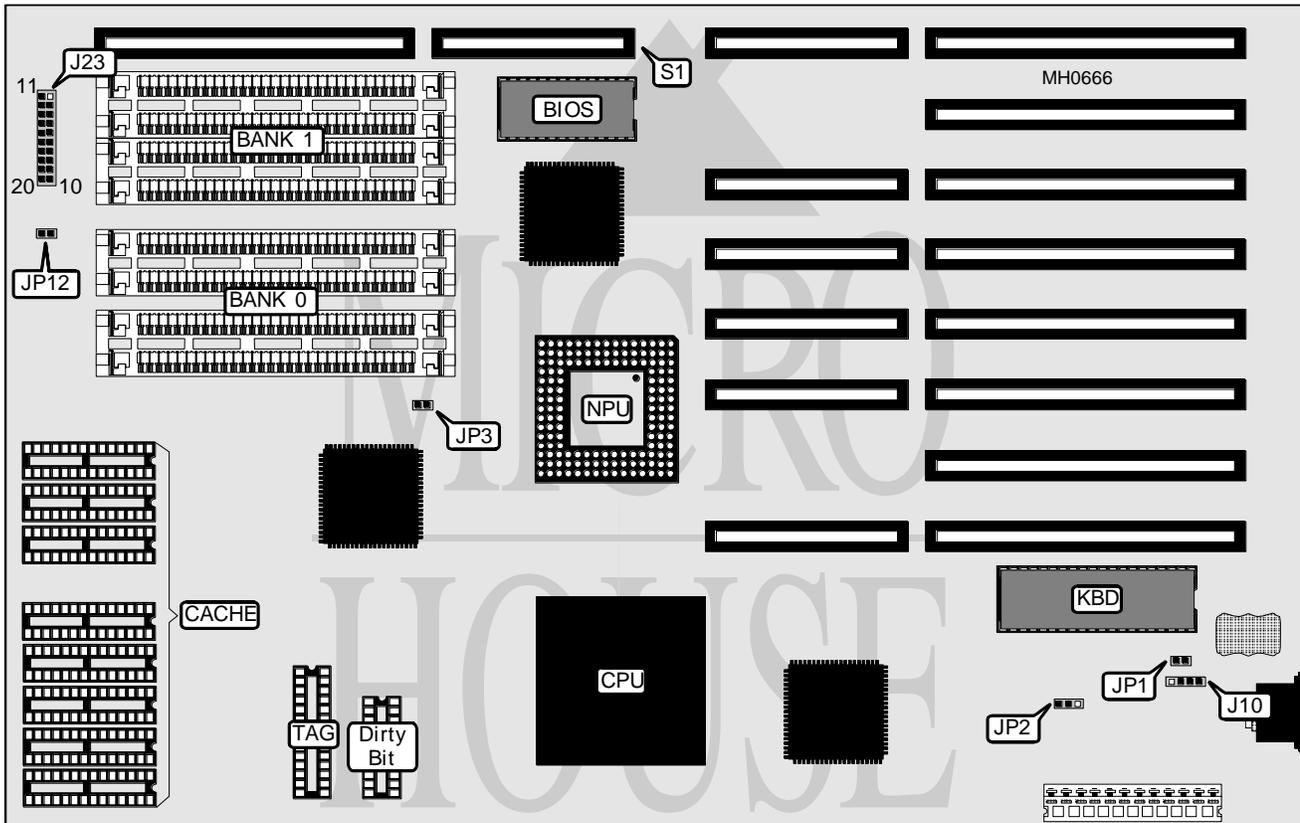
CONNECTIONS			
Purpose	Location	Purpose	Location
External battery	J10	Reset switch	J23 pins 9 & 19
Speaker	J23 pins 1 - 4	Power LED & Keylock	J23 pins 11 - 15
Turbo switch	J23 pins 7 & 17	32-bit external memory card	S1
Turbo LED	J23 pins 8 & 18		

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USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
í Monitor type select monochrome	JP1	Open
Monitor type select color	JP1	Closed
í Battery type select internal	JP2	pins 2 & 3 closed
Battery type select external	JP2	pins 1 & 2 closed
í Factory configured - do not alter	JP3	Open
í Factory configured - do not alter	JP4	N/A
í Factory configured - do not alter	JP9	N/A
í Factory configured - do not alter	JP12	N/A

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) 4M x 9	(4) 1M x 9
32MB	(4) 4M x 9	(4) 4M x 9

CACHE CONFIGURATION			
Size	Bank 0	TAG	Dirty Bit
64KB	(8) 8K x 8	(1) 8K x 8	(1) 16K x 1
Note: The cache, TAG, and dirty bit chip locations and sizes are unidentified.			