NORTHGATE COMPUTER SYSTEMS, INC.
386 ELEGANCE

Processor	80386DX
Processor Speed	20/25MHz
Chip Set	OPTI
Max. Onboard DRAM	8MB
Cache	64/256KB
BIOS	AMI
Dimensions	330mm x 218mm
I/O Options	32-bit external memory card slot
NPU Options	80387/3167
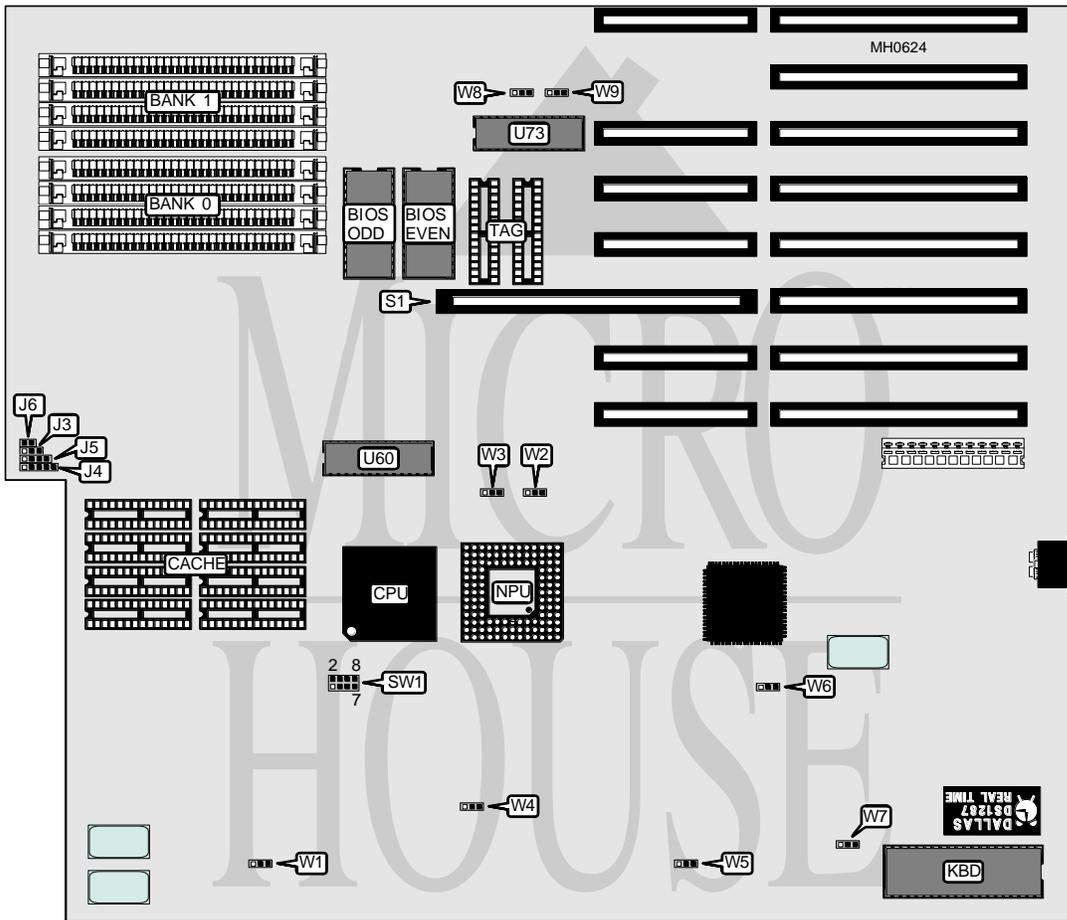
CONNECTIONS			
Purpose	Location	Purpose	Location
Turbo LED	J3	Reset switch	J6
Power LED & keylock	J4	32-bit external memory card	S1
Speaker	J5	Turbo switch	W6

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USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
í Factory configured - do not alter (Rev. B that has jumper W10)	W1	pins 2 & 3 closed
í Factory configured - do not alter (Rev. Bs without jumper W10)	W1	Open
í DRAM (8-bit) speed select 20MHz CPU	W4	pins 2 & 3 closed
DRAM (8-bit) speed select 25MHz CPU	W4	pins 1 & 2 closed
í DRAM (16-bit) speed select 20MHz CPU	W5	pins 2 & 3 closed
DRAM (16-bit) speed select 25MHz CPU	W5	pins 1 & 2 closed
í Monitor type select monochrome	W7	pins 1 & 2 closed
Monitor type select color	W7	pins 2 & 3 closed
í Factory configured - do not alter (some Rev. Bs only)	W10	N/A

DRAM CONFIGURATION						
Size	Bank 0	Bank 1	Bank 2	Bank 3	Socket U60	Socket U73
1MB	(4) 256K x 9	NONE	NONE	NONE	PAL B	PAL B
2MB	(4) 256K x 9	(4) 256K x 9	NONE	NONE	PAL B	PAL B
3MB	(4) 256K x 9	(4) 256K x 9	(4) 256K x 9	NONE	PAL B	PAL B
4MB	(4) 256K x 9	(4) 256K x 9	(4) 256K x 9	(4) 256K x 9	PAL B	PAL B
4MB	(4) 1M x 9	NONE	NONE	NONE	PAL A	PAL A
5MB	(4) 1M x 9	NONE	(4) 256K x 9	NONE	PAL A	PAL A
6MB	(4) 1M x 9	NONE	(4) 256K x 9	(4) 256K x 9	PAL A	PAL A
8MB	(4) 1M x 9	(4) 1M x 9	NONE	NONE	PAL A	PAL A
9MB	(4) 1M x 9	(4) 1M x 9	(4) 256K x 9	NONE	PAL A	PAL A
10MB	(4) 1M x 9	(4) 1M x 9	(4) 256K x 9	(4) 256K x 9	PAL A	PAL A
12MB	(4) 1M x 9	(4) 1M x 9	(4) 1M x 9	NONE	PAL A	PAL A
16MB	(4) 1M x 9	(4) 1M x 9	(4) 1M x 9	(4) 1M x 9	PAL A	PAL A
Note: Banks 2 & 3 are used when 32-bit external memory card is installed at S1.						

DRAM JUMPER CONFIGURATION			
Size	SW1	W8	W9
1MB	Open	pins 2 & 3 closed	pins 2 & 3 closed
2MB	Open	pins 2 & 3 closed	pins 2 & 3 closed
3MB	pins 1 & 2 closed	pins 2 & 3 closed	pins 2 & 3 closed
4MB	pins 1 & 2 closed	pins 2 & 3 closed	pins 2 & 3 closed
4MB	Open	pins 2 & 3 closed	pins 2 & 3 closed
5MB	pins 3 & 4, 7 & 8 closed	pins 1 & 2 closed	pins 1 & 2 closed
6MB	pins 3 & 4, 7 & 8 closed	pins 1 & 2 closed	pins 1 & 2 closed
8MB	Open	pins 1 & 2 closed	pins 1 & 2 closed
9MB	pins 1 & 2 closed	pins 1 & 2 closed	pins 1 & 2 closed
10MB	pins 1 & 2 closed	pins 1 & 2 closed	pins 1 & 2 closed
12MB	pins 1 & 2, 7 & 8 closed	pins 1 & 2 closed	pins 1 & 2 closed
16MB	Open	pins 1 & 2 closed	pins 1 & 2 closed

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CACHE CONFIGURATION		
Size	Bank 0	TAG
64KB	(8) 64K x 1	(2) 64K x 1
256KB	(8) 64K x 4	(2) 64K x 4

CACHE JUMPER CONFIGURATION		
Size	W2	W3
64KB	pins 1 & 2 closed	pins 1 & 2 closed
256KB	pins 2 & 3 closed	pins 2 & 3 closed