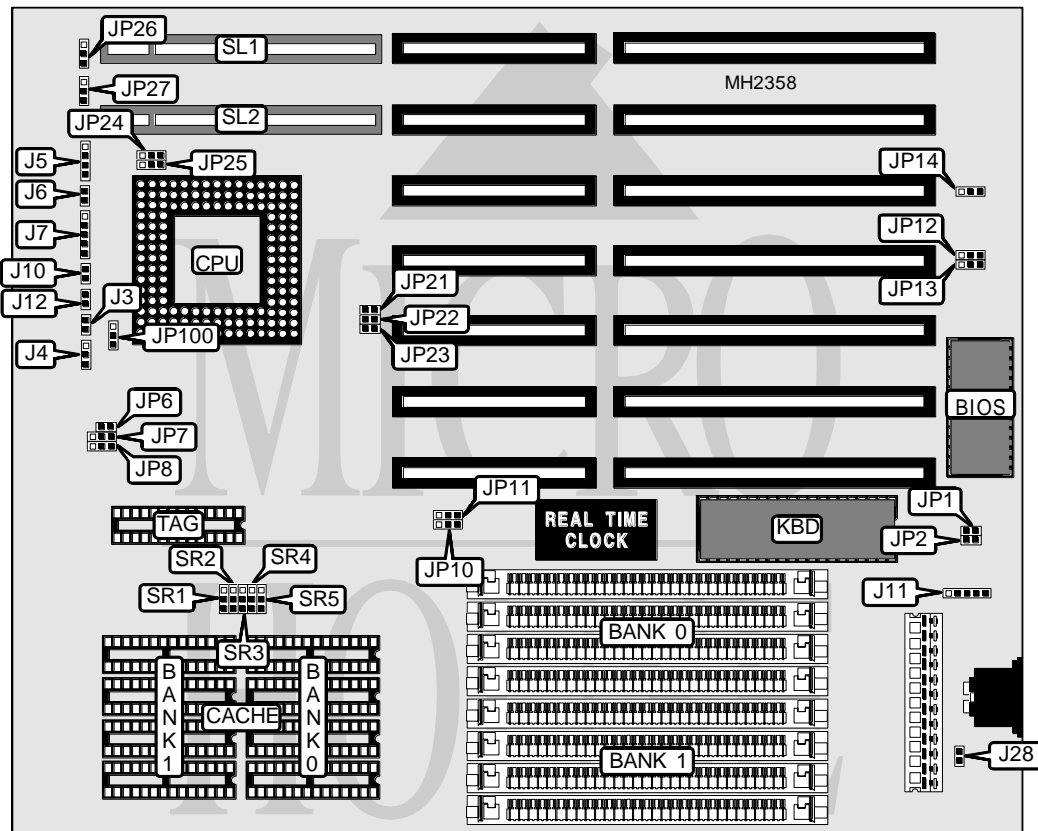


# NORTHGATE COMPUTER SYSTEMS, INC.

## NORTHGATE ENERGY STAR LX400A/G REV. 3.1

<b>Processor</b>	80486SX/80487SX/80486DX/80486DX2
<b>Processor Speed</b>	25/33/40/50(internal)/50/66(internal)MHz
<b>Chip Set</b>	SIS
<b>Max. Onboard DRAM</b>	32MB
<b>Cache</b>	64/128/256KB
<b>BIOS</b>	AMI
<b>Dimensions</b>	254mm x 220mm
<b>I/O Options</b>	32-bit VESA local bus slots (2), PS/2 mouse port, green PC connector
<b>NPU Options</b>	None



CONNECTIONS			
Purpose	Location	Purpose	Location
Turbo LED	J3	Flash LED	J10
Turbo switch	J4	PS/2 mouse port	J11
Speaker	J5	Green PC connector	J12
Reset switch	J6	Green PC connector (monitor)	J28
Power LED & keylock	J7	32-bit VESA local bus slots	SL1 & SL2

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# NORTHGATE COMPUTER SYSTEMS, INC.

## NORTHGATE ENERGY STAR LX400A/G REV. 3.1

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USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
í Factory configured - do not alter	JP1	Open
í Monitor type select color	JP2	Closed
Monitor type select monochrome	JP2	Open
í On board mouse enabled	JP12	pins 1 & 2 closed
On board mouse disabled	JP12	pins 2 & 3 closed
í Factory configured - do not alter	JP13	pins 2 & 3 closed
í Power good signal detect from power supply	JP14	pins 1 & 2 closed
Power good signal detect from board	JP14	pins 2 & 3 closed
í Factory configured - do not alter	JP21	Open
í Factory configured - do not alter	JP22	Open
í Factory configured - do not alter	JP23	Open
í Factory configured - do not alter	JP100	Open

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
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

CACHE CONFIGURATION			
Size	Bank 0	Bank 1	TAG
64KB	(4) 8K x 8	(4) 8K x 8	(1) 8K x 8
128KB	(4) 32K x 8	NONE	(1) 8K x 8
256KB	(4) 32K x 8	(4) 32K x 8	(1) 32K x 8

CACHE JUMPER CONFIGURATION					
Size	SR1	SR2	SR3	SR4	SR5
64KB	2 & 3	2 & 3	1 & 2	1 & 2	1 & 2
128KB	1 & 2	1 & 2	2 & 3	2 & 3	1 & 2
256KB	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

CPU TYPE CONFIGURATION			
Type	JP6	JP7	JP8
80486SX	Open	Open	pins 2 & 3 closed
80487SX	Closed	pins 2 & 3 closed	pins 1 & 2 closed
80486DX	Closed	pins 1 & 2 closed	pins 1 & 2 closed
80486DX2	Closed	pins 1 & 2 closed	pins 1 & 2 closed

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## NORTHGATE COMPUTER SYSTEMS, INC.

## NORTHGATE ENERGY STAR LX400A/G REV. 3.1

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CPU SPEED CONFIGURATION		
Speed	JP10	JP11
25MHz	pins 2 & 3 closed	pins 2 & 3 closed
33MHz	pins 2 & 3 closed	pins 1 & 2 closed
40MHz	pins 1 & 2 closed	pins 2 & 3 closed
50iMHz	pins 2 & 3 closed	pins 2 & 3 closed
50MHz	pins 1 & 2 closed	pins 1 & 2 closed
66iMHz	pins 2 & 3 closed	pins 1 & 2 closed

VESA WAIT STATE CONFIGURATION		
Wait states	JP24	JP26
0 wait states	pins 1 & 2 closed	pins 1 & 2 closed
1 wait state	pins 2 & 3 closed	pins 2 & 3 closed

BUS SPEED CONFIGURATION		
CPU speed	JP25	JP27
<= 33MHz	pins 1 & 2 closed	pins 1 & 2 closed
> 33MHz	pins 2 & 3 closed	pins 2 & 3 closed