# NORTHGATE COMPUTER SYSTEMS, INC.
## S L I M L I N E   C A C H E   3 8 6 S X

| | |
|---|---|
| **Processor** | 80386SX |
| **Processor Speed** | 16/20MHz |
| **Chip Set** | VLSI |
| **Max. Onboard DRAM** | 8MB |
| **Cache** | 64KB |
| **BIOS** | AMI |
| **Dimensions** | 330mm x 218mm |
| **I/O Options** | Floppy drive interface, IDE interface, parallel port, serial ports (2), VGA port |
| **NPU Options** | 80387SX |



| CONNECTIONS | | | |
|---|---|---|---|
| Purpose | Location | Purpose | Location |
| VGA port | J1 | Serial port 2 | J10 |
| Turbo LED | J3 | Parallel port LPT1 | J15 |
| Power LED & keylock | J4 | Floppy drive interface | J16 |
| Speaker | J5 | IDE interface | J17 |
| Reset switch | J6 | Riser card | R1 |
| IDE interface LED | J8 | Turbo switch | W6 |
| Serial port 1 | J9 | | |
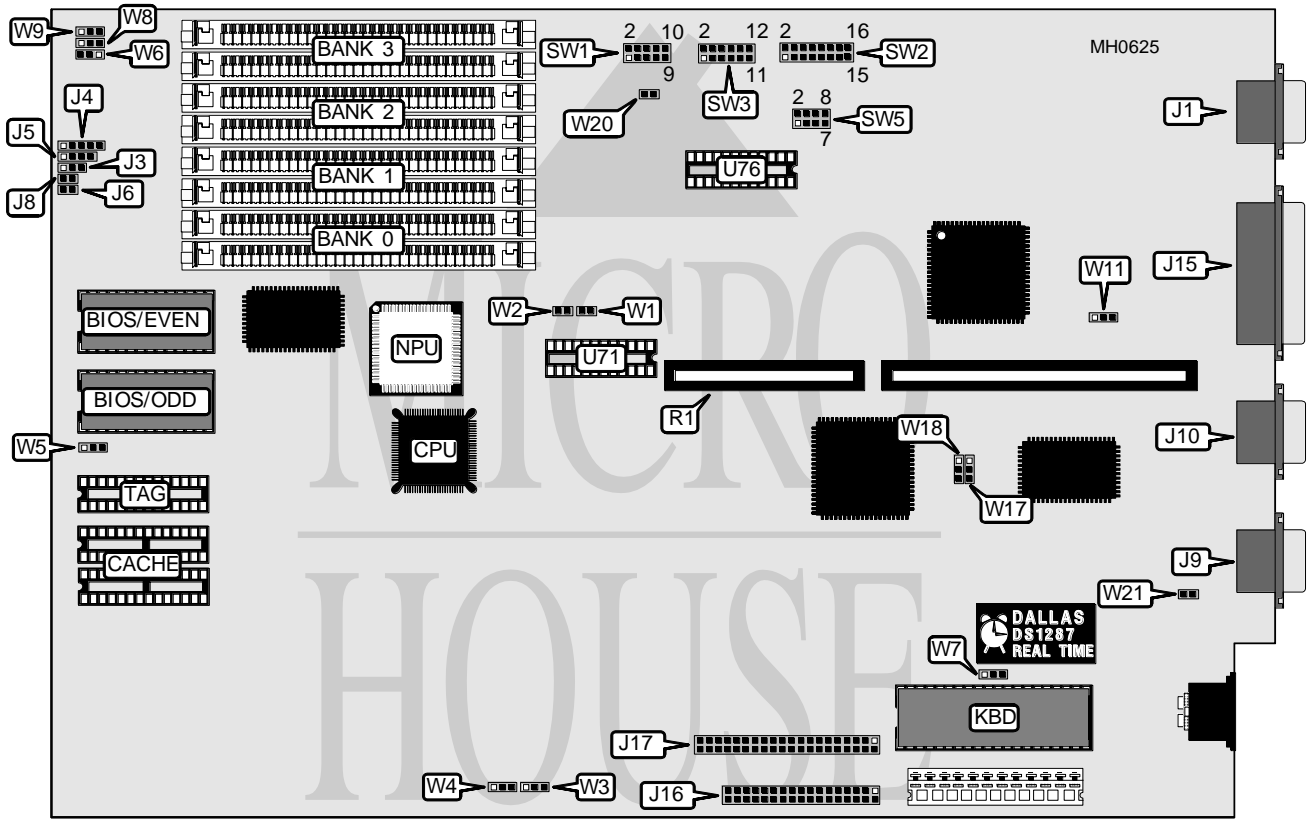
# NORTHGATE COMPUTER SYSTEMS, INC.
## SLIMLINE CACHE 386SX

| USER CONFIGURABLE SETTINGS | | |
|---|---|---|
| Function | Jumper | Position |
| í Factory configured - do not alter | SW1/1 & 2 | Open |
| í Factory configured - do not alter | SW2/3 & 4 | Open |
| í Factory configured - do not alter | SW21 & 2 | N/A |
| í Floppy drive interface interrupt (IRQ6) enabled | SW2/pins 11 & 12 | Open |
| Floppy drive interface interrupt (IRQ6) disabled | SW2/pins 11 & 12 | Closed |
| í Floppy drive interface DMARQ2 enabled | SW2/pins 13 & 14 | Open |
| Floppy drive interface DMARQ2 disabled | SW2/pins 13 & 14 | Closed |
| í Floppy drive interface DACK2 enabled | SW2/pins 15 & 16 | Open |
| Floppy drive interface DACK2 disabled | SW2/pins 15 & 16 | Closed |
| í Floppy drive interface enabled | SW3/pins 1 & 2 | Open |
| Floppy drive interface disabled | SW3/pins 1 & 2 | Closed |
| í Factory configured - do not alter | SW3/pins 5 & 6 | Open |
| í Factory configured - do not alter | W1 | Closed |
| í Cache enabled | W2 | Closed |
| Cache disabled | W2 | Open |
| í Memory (8-bit) speed select 4 wait states | W3 | pins 2 & 3 closed |
| Memory (8-bit) speed select 6 wait states | W3 | pins 1 & 2 closed |
| í Memory (16-bit) speed select 1 wait states | W4 | pins 2 & 3 closed |
| Memory (16-bit) speed select 2 wait states | W4 | pins 1 & 2 closed |
| í BIOS type select 27256 | W5 | pins 2 & 3 closed |
| BIOS type select 27512 | W5 | pins 1 & 2 closed |
| Monitor type select monochrome | W7 | pins 1 & 2 closed |
| Monitor type select color | W7 | pins 2 & 3 closed |
| í Parallel port (J2) mode select output only | W11 | pins 2 & 3 closed |
| Parallel port (J2) mode select bi-directional | W11 | pins 1 & 2 closed |
| í Floppy drive write precomp select standard | W17 | pins 2 & 3 closed |
| Floppy drive write precomp select two speed drive | W17 | pins 1 & 2 closed |
| í Floppy drive type select standard | W18 | pins 1 & 2 closed |
| Floppy drive type select two speed drive | W18 | pins 2 & 3 closed |
| í IDE interface enabled | W20 | Open |
| IDE interface disabled | W20 | Closed |
| í IDE interface interrupt (IRQ4) enabled | W21 | Open |
| IDE interface interrupt disabled | W21 | Closed |

| DRAM CONFIGURATION | | | | | | |
|---|---|---|---|---|---|---|
| Size | Bank 0 | Bank 1 | Bank 2 | Bank 3 | Socket U71 | Socket U76 |
| 512KB | (2) 256K x 9 | NONE | NONE | NONE | PAL B | PAL B |
| 1MB | (2) 256K x 9 | (2) 256K x 9 | NONE | NONE | PAL B | PAL B |
| 2MB | (2) 1M x 9 | NONE | NONE | NONE | PAL A | PAL A |
| 3MB | (2) 256K x 9 | (2) 256K x 9 | (2) 1M x 9 | NONE | PAL B | PAL B |
| 4MB | (2) 1M x 9 | (2) 1M x 9 | NONE | NONE | PAL A | PAL A |
| 5MB | (2) 256K x 9 | (2) 256K x 9 | (2) 1M x 9 | (2) 1M x 9 | PAL B | PAL B |
| 6MB | (2) 1M x 9 | (2) 1M x 9 | (2) 1M x 9 | NONE | PAL A | PAL A |
| 8MB | (2) 1M x 9 | (2) 1M x 9 | (2) 1M x 9 | (2) 1M x 9 | PAL A | PAL A |

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| DRAM JUMPER/SWITCH CONFIGURATION | | | | | |
|---|---|---|---|---|---|
| Size | SW1/5 & 6 | SW1/7 & 8 | SW1/9 & 10 | W8 | W9 |
| 512KB | Open | Open | Open | pins 1 & 2 closed | pins 2 & 3 closed |
| 1MB | Open | Closed | Open | pins 1 & 2 closed | pins 2 & 3 closed |
| 2MB | Closed | Open | Open | pins 1 & 2 closed | pins 1 & 2 closed |
| 3MB | Closed | Open | Open | pins 1 & 2 closed | pins 2 & 3 closed |
| 4MB | Open | Open | Open | pins 1 & 2 closed | pins 1 & 2 closed |
| 5MB | Open | Closed | Open | pins 1 & 2 closed | pins 2 & 3 closed |
| 6MB | Closed | Open | Open | pins 1 & 2 closed | pins 1 & 2 closed |
| 8MB | Closed | Open | Open | pins 1 & 2 closed | pins 1 & 2 closed |
| Note: DRAM jumper configurations correlate directly to memory configurations. | | | | | |

| CACHE CONFIGURATION | | |
|---|---|---|
| Size | Bank 0 | TAG |
| 64KB | (2) 64K x 4 | (1) 8K x 8 |
| Note: Arrangement of Cache/TAG unverified. | | |

| PARALLEL PORT CONFIGURATION | | | | | | |
|---|---|---|---|---|---|---|
| LPT# | Interrupt | Address | SW2/7 & 8 | SW2/9 & 10 | SW3/9 & 10 | SW3/11 & 12 |
| LPT1 | IRQ7 | 378h | Open | Closed | Open | Open |
| LPT1 | IRQ7 | 3BCh | Open | Closed | Open | Closed |
| LPT2 | IRQ5 | 278h | Closed | Open | Closed | Open |
| Disabled | N/A | N/A | Open | Open | Closed | Closed |

| SERIAL PORT 1 CONFIGURATION | | |
|---|---|---|
| Setting | SW2/3 & 4 | SW3/3 & 4 |
| COM2/IRQ3 | Closed | Open |
| Disabled | Open | Closed |

| SERIAL PORT 2 CONFIGURATION | | |
|---|---|---|
| Setting | SW2/5 &6 | SW3/7 & 8 |
| COM1/IRQ4 | Closed | Open |
| Disabled | Open | Closed |

| ON BOARD VIDEO CONFIGURATION | |
|---|---|
| Size | SW5 |
| Enabled | pins 1 & 2, 3 & 4, 5 & 6 closed & pins 7 & 8 open |
| Disabled | pins 1 & 2, 3 & 4, 5 & 6 open & pins 7 & 8 closed |