# NORTHGATE COMPUTER SYSTEMS, INC.
## S L I M L I N E   3 2 0

| | |
|---|---|
| **Processor** | 80386DX |
| **Processor Speed** | 20MHz |
| **Chip Set** | C & T |
| **Max. Onboard DRAM** | 8MB |
| **Cache** | None |
| **BIOS** | AMI |
| **Dimensions** | 330mm x 218mm |
| **I/O Options** | Floppy drive interface, IDE interface, parallel port, serial ports (2), VGA port |
| **NPU Options** | 80387 |



| CONNECTIONS | | | |
|---|---|---|---|
| Purpose | Location | Purpose | Location |
| Reset switch | J2 | Floppy drive interface | J16 |
| Turbo LED | J6 | IDE interface | J17 |
| Power LED & keylock | J8 | VGA port | J21 |
| Serial port 2 | J13 | IDE interface LED | J23 |
| Serial port 1 | J14 | Riser card | R1 |
| Parallel port | J15 | | |
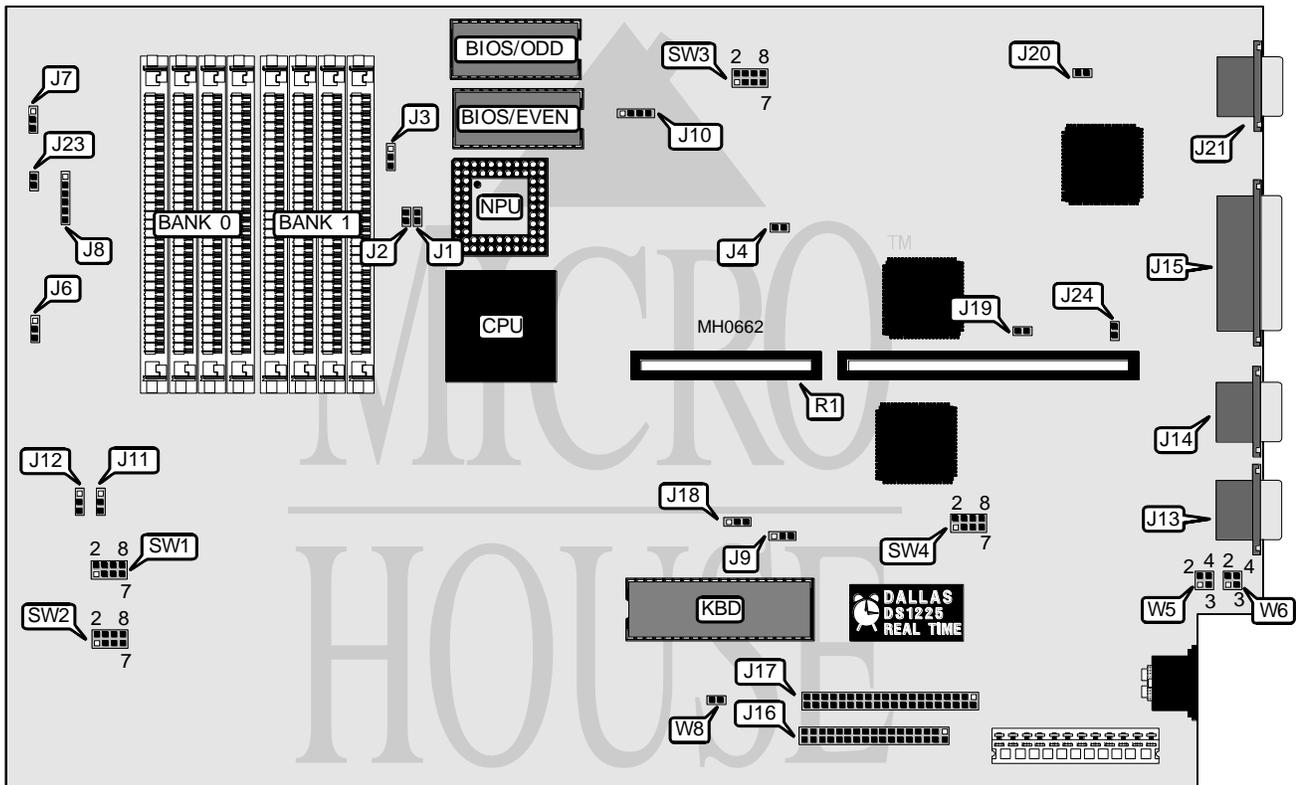
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| USER CONFIGURABLE SETTINGS | | |
|---|---|---|
| Function | Jumper | Position |
| í  Factory configured - do not alter | J1 | Closed |
| í  VGA onboard BIOS enabled | J3 | pins 2 & 3 closed |
|    VGA onboard BIOS disabled | J3 | pins 1 & 2 closed |
| í  VGA port enabled | J4 | Closed |
|    VGA port disabled | J4 | Open |
| í  CPU speed select switchable at turbo switch (boot-up fast) | J7 | Open |
|    CPU speed select slow | J7 | pins 2 & 3 closed |
|    Monitor type select monochrome | J9 | pins 1 & 2 closed |
|    Monitor type select color | J9 | pins 2 & 3 closed |
| í  Factory configured - do not alter | J10 | N/A |
| í  Factory configured - do not alter | J18 | Closed |
| í  Factory configured - do not alter | J19 | Closed |
| í  Factory configured - do not alter | J20 | Closed |
| í  Factory configured - do not alter | J24 | Open |
| í  Factory configured - do not alter | SW1 pins 3 & 4 | N/A |
| í  Factory configured - do not alter | SW1 pins 5 & 6 | N/A |
| í  Factory configured - do not alter | SW1 pins 7 & 8 | N/A |
| í  Serial port 1 enabled | SW3 pins 1 & 2 | Open |
|    Serial port 1 disabled | SW3 pins 1 & 2 | Closed |
| í  Serial port2 enabled | SW3 pins 3 & 4 | Open |
|    Serial port 2 disabled | SW3 pins 3 & 4 | Closed |
| í  Parallel port enabled | SW3 pins 5 & 6 | Open |
|    Parallel port disabled | SW3 pins 5 & 6 | Closed |
| í  Parallel port select LPT1 | SW3 pins 7 & 8 | Open |
|    Parallel port select LPT2 | SW3 pins 7 & 8 | Closed |
| í  Factory configured - do not alter | SW4 pins 1 & 2 | Closed |
| í  Factory configured - do not alter | SW4 pins 3 & 4 | Closed |
| í  Factory configured - do not alter | SW4 pins 5 & 6 | Closed |
| í  Factory configured - do not alter | SW4 pins 7 & 8 | Closed |
| í  Factory configured - do not alter | W1 | Open |
| í  Floppy drive interface enabled | W5 pins 1 & 2 | Open |
|    Floppy drive interface disabled | W5 pins 1 & 2 | Closed |
| í  IDE interface enabled | W5 pins 3 & 4 | Open |
|    IDE interface disabled | W5 pins 3 & 4 | Closed |
| í  Floppy drive select 1-speed | W6 pins 1 & 2 | Open |
|    Floppy drive select 2-speed 1.2MB 5.25" | W6 pins 1 & 2 | Closed |
| í  Floppy drive write precomp select 125ns | W6 pins 3 & 4 | Open |
|    Floppy drive write precomp select 187ns | W6 pins 3 & 4 | Closed |
| í  Factory configured - do not alter | W8 | Open |
| Note:     The location of W1 is unidentifed. | | |

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| 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 |

| DRAM JUMPER CONFIGURATION | | | | |
|---|---|---|---|---|
| Size | J11 | J12 | SW1 | SW2 |
| 1MB | 2 & 3 | 2 & 3 | Open | Open |
| 2MB | 2 & 3 | 2 & 3 | Open | 1 & 2 |
| 4MB | 1 & 2 | 1 & 2 | 1 & 2 | 5 & 6, 7 & 8 |
| 8MB | 1 & 2 | 1 & 2 | 1 & 2 | 1 & 2, 5 & 6, 7 & 8 |
| Note:    Pins designated should be in the closed position. | | | | |