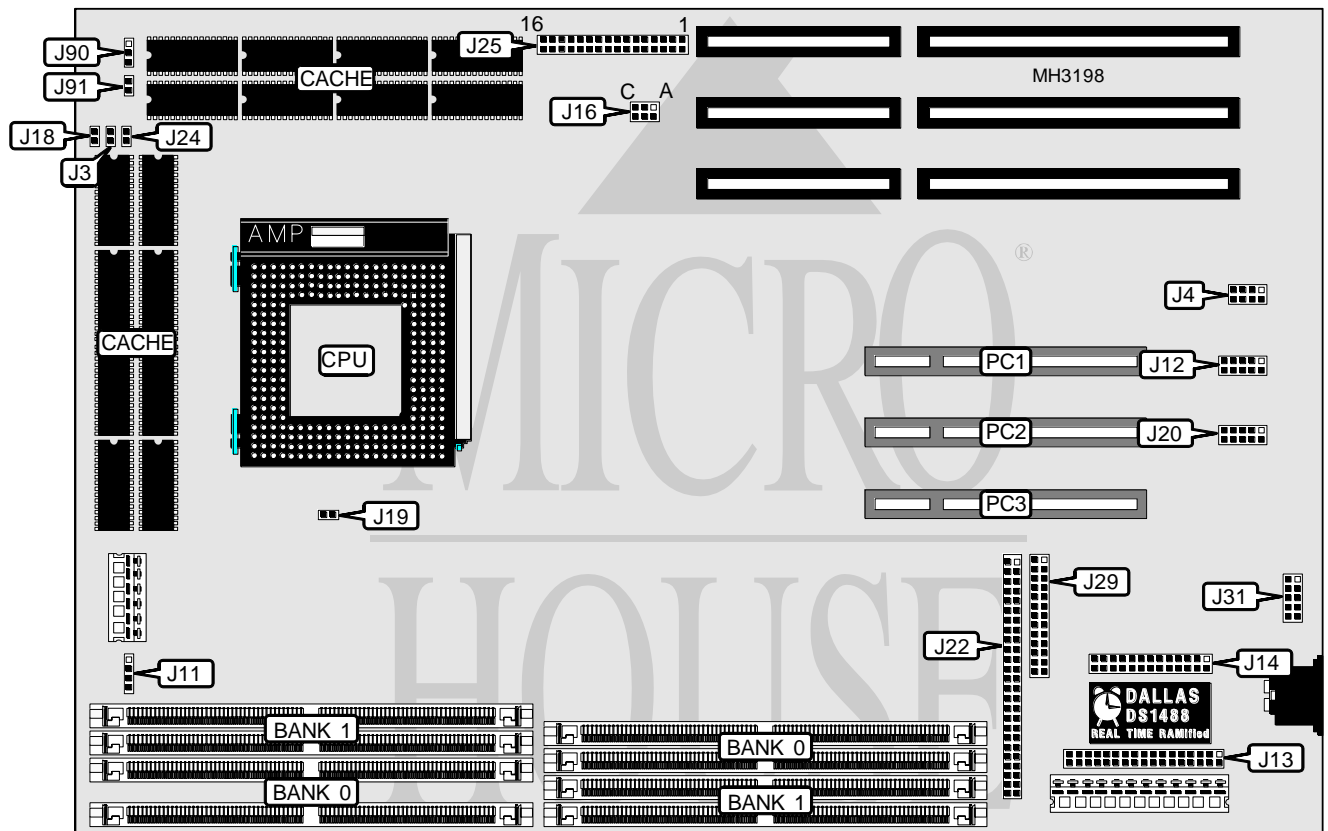


# ASPEN SYSTEMS, INC.

## ALPINE

|                          |  |
|--------------------------|--|
| <b>Processor</b>         | Alpha  |
| <b>Processor Speed</b>   | 166/200/233/275MHz   |
| <b>Chip Set</b>          | Digital  |
| <b>Max. Onboard DRAM</b> | 512MB  |
| <b>Cache</b>             | 512KB/2MB  |
| <b>BIOS</b>              | Aspen  |
| <b>Dimensions</b>        | 330mm x 218mm  |
| <b>I/O Options</b>       | 32-bit PCI slots (3), floppy drive interface, SCSI connectors (2), parallel port, PS/2 mouse interface, serial ports (2) |
| <b>NPU Options</b>       | None   |



| CONNECTIONS            |          |                         |           |
|------------------------|----------|-------------------------|-----------|
| Purpose                | Location | Purpose                 | Location  |
| Remote diagnostics     | J4       | Internal SCSI interface | J22       |
| Speaker                | J11      | Reset switch            | J24       |
| Serial port 2          | J12      | External SCSI interface | J29       |
| Floppy drive interface | J13      | PS/2 mouse interface    | J31       |
| Parallel port          | J14      | LED                     | J90       |
| Keylock                | J18      | LED                     | J91       |
| Serial port 1          | J20      | 32-bit PCI slots        | PC1 - PC3 |

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## ALPINE

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| USER CONFIGURABLE SETTINGS          |        |          |
|-------------------------------------|--------|----------|
| Function                            | Jumper | Position |
| í Factory configured - do not alter | J3     | Open     |
| í Factory configured - do not alter | J19    | Open     |
| í Factory configured - do not alter | J25/4  | Open     |
| í Factory configured - do not alter | J25/5  | Open     |
| í Factory configured - do not alter | J25/6  | Open     |

| DRAM CONFIGURATION |              |              |
|--------------------|--------------|--------------|
| Size               | Bank 0       | Bank 1       |
| 16MB               | (4) 1M x 36  | NONE         |
| 32MB               | (4) 1M x 36  | (4) 1M x 36  |
| 32MB               | (4) 2M x 36  | NONE         |
| 48MB               | (4) 2M x 36  | (4) 1M x 36  |
| 64MB               | (4) 2M x 36  | (4) 2M x 36  |
| 64MB               | (4) 4M x 36  | NONE         |
| 80MB               | (4) 4M x 36  | (4) 1M x 36  |
| 96MB               | (4) 4M x 36  | (4) 2M x 36  |
| 128MB              | (4) 4M x 36  | (4) 4M x 36  |
| 128MB              | (4) 8M x 36  | NONE         |
| 144MB              | (4) 8M x 36  | (4) 1M x 36  |
| 160MB              | (4) 8M x 36  | (4) 2M x 36  |
| 192MB              | (4) 8M x 36  | (4) 4M x 36  |
| 256MB              | (4) 8M x 36  | (4) 8M x 36  |
| 256MB              | (4) 16M x 36 | NONE         |
| 272MB              | (4) 16M x 36 | (4) 1M x 36  |
| 288MB              | (4) 16M x 36 | (4) 2M x 36  |
| 320MB              | (4) 16M x 36 | (4) 4M x 36  |
| 384MB              | (4) 16M x 36 | (4) 8M x 36  |
| 512MB              | (4) 16M x 36 | (4) 16M x 36 |

| DRAM JUMPER CONFIGURATION |        |        |        |        |        |        |
|---------------------------|--------|--------|--------|--------|--------|--------|
| Size                      | J25/7  | J25/8  | J25/9  | J25/12 | J25/13 | J25/14 |
| 16MB                      | Closed | Closed | Closed | Open   | Closed | Closed |
| 32MB                      | Open   | Closed | Closed | Open   | Closed | Closed |
| 32MB                      | Closed | Closed | Closed | Closed | Open   | Closed |
| 48MB                      | Open   | Closed | Closed | Closed | Open   | Closed |
| 64MB                      | Closed | Open   | Closed | Closed | Open   | Closed |
| 64MB                      | Closed | Closed | Closed | Open   | Open   | Closed |
| 80MB                      | Open   | Closed | Closed | Open   | Open   | Closed |
| 96MB                      | Closed | Open   | Closed | Open   | Open   | Closed |
| 128MB                     | Open   | Open   | Closed | Open   | Open   | Closed |
| 128MB                     | Closed | Closed | Closed | Closed | Closed | Open   |
| 144MB                     | Open   | Closed | Closed | Closed | Closed | Open   |
| 160MB                     | Closed | Open   | Closed | Closed | Closed | Open   |
| 192MB                     | Open   | Open   | Closed | Closed | Closed | Open   |

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## ALPINE

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| DRAM JUMPER CONFIGURATION |        |        |        |        |        |        |
|---------------------------|--------|--------|--------|--------|--------|--------|
| Size                      | J25/7  | J25/8  | J25/9  | J25/12 | J25/13 | J25/14 |
| 256MB                     | Closed | Closed | Open   | Closed | Closed | Open   |
| 256MB                     | Closed | Closed | Closed | Open   | Closed | Open   |
| 272MB                     | Open   | Closed | Closed | Open   | Closed | Open   |
| 288MB                     | Closed | Open   | Closed | Open   | Closed | Open   |
| 320MB                     | Open   | Open   | Closed | Open   | Closed | Open   |
| 384MB                     | Closed | Closed | Open   | Open   | Closed | Open   |
| 512MB                     | Open   | Closed | Open   | Open   | Closed | Open   |

| DRAM SPEED CONFIGURATION |        |        |        |        |
|--------------------------|--------|--------|--------|--------|
| Speed                    | J25/10 | J25/11 | J25/15 | J25/16 |
| 60ns                     | Closed | Open   | Closed | Open   |
| 70ns                     | Open   | Closed | Open   | Closed |
| 80ns                     | Closed | Closed | Closed | Closed |

Note: J25 (10 & 11) are for Bank 1 and J25 (15 & 16) are for Bank 0.

| CACHE JUMPER CONFIGURATION (REV. B BOARD) |        |        |        |
|---|--------|--------|--------|
| Size                                      | J25/1  | J25/2  | J25/3  |
| None                                      | Open   | Closed | Closed |
| 512KB                                     | Closed | Open   | Closed |
| 2MB                                       | Open   | Open   | Open   |

| CACHE JUMPER CONFIGURATION (REV. D BOARD) |       |        |        |
|---|-------|--------|--------|
| Size                                      | J25/1 | J25/2  | J25/3  |
| None                                      | N/A   | Closed | Closed |
| 2MB                                       | N/A   | Open   | Open   |

| COMANCHE CONFIGURATION (REV. D BOARD) |        |       |       |
|---------------------------------------|--------|-------|-------|
| Size                                  | J25/1  | J25/2 | J25/3 |
| Comanche fast write enabled           | Closed | N/A   | N/A   |
| Comanche fast write disabled          | N/A    | Open  | Open  |

| CPU SPEED CONFIGURATION |        |        |        |
|-------------------------|--------|--------|--------|
| Speed                   | J16A   | J16B   | J16C   |
| 166MHz                  | Open   | Open   | Closed |
| 200MHz                  | Closed | Closed | Open   |
| 233MHz                  | Open   | Closed | Open   |
| 275MHz                  | Open   | Open   | Open   |