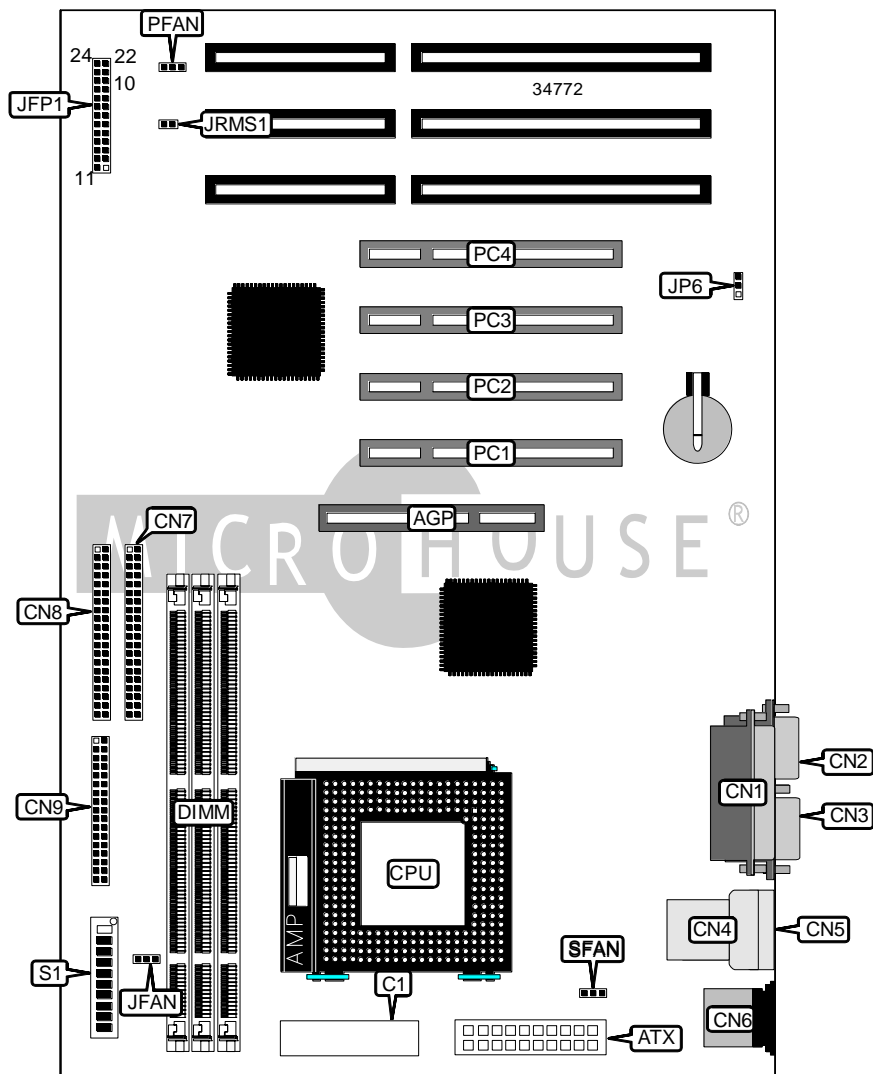


# MICRO-STAR INTERNATIONAL CO., LTD.

## MS - 5 1 6 9

|                               |   |
|-------------------------------|---|
| <b>Device Type</b>            | Mainboard   |
| <b>Processor</b>              | CX 6X86/CX 6X86L/CX 686MX/AM K5/AM K6/Pentium   |
| <b>Processor Speed</b>        | Unidentified  |
| <b>Chip Set</b>               | Aladdin   |
| <b>Video Chip Set</b>         | None  |
| <b>Maximum Onboard Memory</b> | 768MB (EDO & SDRAM supported)   |
| <b>Maximum Video Memory</b>   | None  |
| <b>Cache</b>                  | 256/512KB   |
| <b>BIOS</b>                   | Unidentified  |
| <b>Dimensions</b>             | 300mm x 186mm   |
| <b>I/O Options</b>            | 32-bit PCI slots (4), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), USB connectors (2), ATX power connector, AGP slot |
| <b>NPU Options</b>            | None  |



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| CONNECTIONS         |          |                        |                   |
|---------------------|----------|------------------------|-------------------|
| Purpose             | Location | Purpose                | Location          |
| AGP slot            | AGP      | Floppy drive interface | CN9               |
| ATX power connector | ATX      | Chassis fan power      | JFAN              |
| Switching regulator | C1       | Power LED & keylock    | JFP1/pins 1 - 5   |
| Parallel port       | CN1      | Speaker                | JFP1/pins 7 - 10  |
| Serial port 2       | CN2      | Turbo LED              | JFP1/pins 12 & 13 |
| Serial port 1       | CN3      | Reset switch           | JFP1/pins 19 & 20 |
| USB connector 1     | CN4      | IDE interface LED      | JFP1/pins 22 & 24 |
| USB connector 2     | CN5      | Soft off power supply  | JRMS1             |
| PS/2 mouse port     | CN6      | 32-bit PCI slots       | PC1 – PC4         |
| IDE interface       | CN7      | Chassis fan power      | PFAN              |
| IDE interface       | CN8      | Chassis fan power      | SFAN              |

| USER CONFIGURABLE SETTINGS          |       |              |
|-------------------------------------|-------|--------------|
| Function                            | Label | Position     |
| í Factory configured - do not alter | JP6   | Unidentified |
| í Factory configured - do not alter | S1/6  | Unidentified |

| DIMM CONFIGURATION |             |             |             |
|--------------------|-------------|-------------|-------------|
| Size               | Bank 0      | Bank 1      | Bank 2      |
| 8MB                | (1) 1M x 64 | None        | None        |
| 16MB               | (1) 2M x 64 | None        | None        |
| 16MB               | (1) 1M x 64 | (1) 1M x 64 | None        |
| 24MB               | (1) 2M x 64 | (1) 1M x 64 | None        |
| 24MB               | (1) 1M x 64 | (1) 1M x 64 | (1) 1M x 64 |
| 32MB               | (1) 4M x 64 | None        | None        |
| 32MB               | (1) 2M x 64 | (1) 1M x 64 | (1) 1M x 64 |
| 32MB               | (1) 2M x 64 | (1) 2M x 64 | None        |
| 40MB               | (1) 4M x 64 | (1) 1M x 64 | None        |
| 40MB               | (1) 2M x 64 | (1) 2M x 64 | (1) 1M x 64 |
| 48MB               | (1) 4M x 64 | (1) 1M x 64 | (1) 1M x 64 |
| 48MB               | (1) 4M x 64 | (1) 2M x 64 | None        |
| 48MB               | (1) 2M x 64 | (1) 2M x 64 | (1) 2M x 64 |
| 56MB               | (1) 4M x 64 | (1) 2M x 64 | (1) 1M x 64 |
| 64MB               | (1) 8M x 64 | None        | None        |
| 64MB               | (1) 4M x 64 | (1) 2M x 64 | (1) 2M x 64 |
| 64MB               | (1) 4M x 64 | (1) 4M x 64 | None        |
| 72MB               | (1) 8M x 64 | (1) 1M x 64 | None        |
| 72MB               | (1) 4M x 64 | (1) 4M x 64 | (1) 1M x 64 |
| 80MB               | (1) 8M x 64 | (1) 1M x 64 | (1) 1M x 64 |

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| DIMM CONFIGURATION (CON'T) |              |              |              |
|----------------------------|--------------|--------------|--------------|
| Size                       | Bank 0       | Bank 1       | Bank 2       |
| 80MB                       | (1) 8M x 64  | (1) 2M x 64  | None         |
| 80MB                       | (1) 4M x 64  | (1) 4M x 64  | (1) 2M x 64  |
| 88MB                       | (1) 8M x 64  | (1) 2M x 64  | (1) 1M x 64  |
| 96MB                       | (1) 8M x 64  | (1) 2M x 64  | (1) 2M x 64  |
| 96MB                       | (1) 8M x 64  | (1) 4M x 64  | None         |
| 96MB                       | (1) 4M x 64  | (1) 4M x 64  | (1) 4M x 64  |
| 104MB                      | (1) 8M x 64  | (1) 4M x 64  | (1) 1M x 64  |
| 112MB                      | (1) 8M x 64  | (1) 4M x 64  | (1) 2M x 64  |
| 128MB                      | (1) 16M x 64 | None         | None         |
| 128MB                      | (1) 8M x 64  | (1) 4M x 64  | (1) 4M x 64  |
| 128MB                      | (1) 8M x 64  | (1) 8M x 64  | None         |
| 136MB                      | (1) 16M x 64 | (1) 1M x 64  | None         |
| 136MB                      | (1) 8M x 64  | (1) 8M x 64  | (1) 1M x 64  |
| 144MB                      | (1) 16M x 64 | (1) 1M x 64  | (1) 1M x 64  |
| 144MB                      | (1) 16M x 64 | (1) 2M x 64  | None         |
| 144MB                      | (1) 8M x 64  | (1) 8M x 64  | (1) 2M x 64  |
| 152MB                      | (1) 16M x 64 | (1) 2M x 64  | (1) 1M x 64  |
| 160MB                      | (1) 16M x 64 | (1) 2M x 64  | (1) 2M x 64  |
| 160MB                      | (1) 16M x 64 | (1) 4M x 64  | None         |
| 160MB                      | (1) 8M x 64  | (1) 8M x 64  | (1) 4M x 64  |
| 168MB                      | (1) 16M x 64 | (1) 4M x 64  | (1) 1M x 64  |
| 176MB                      | (1) 16M x 64 | (1) 4M x 64  | (1) 2M x 64  |
| 192MB                      | (1) 16M x 64 | (1) 4M x 64  | (1) 4M x 64  |
| 192MB                      | (1) 16M x 64 | (1) 8M x 64  | None         |
| 192MB                      | (1) 8M x 64  | (1) 8M x 64  | (1) 8M x 64  |
| 200MB                      | (1) 16M x 64 | (1) 8M x 64  | (1) 1M x 64  |
| 208MB                      | (1) 16M x 64 | (1) 8M x 64  | (1) 2M x 64  |
| 224MB                      | (1) 16M x 64 | (1) 8M x 64  | (1) 4M x 64  |
| 256MB                      | (1) 16M x 64 | (1) 8M x 64  | (1) 8M x 64  |
| 384MB                      | (1) 16M x 64 | (1) 16M x 64 | (1) 16M x 64 |
| 512MB                      | (1) 32M x 64 | (1) 32M x 64 | None         |
| 768MB                      | (1) 32M x 64 | (1) 32M x 64 | (1) 32M x 64 |

Note: Board accepts EDO & SDRAM memory.

| CACHE CONFIGURATION   |
|---|
| Note: 256KB/512KB cache is factory installed and is not configurable. The location is unidentified. |

| CPU CLOCK SPEED SELECTION |      |      |
|---------------------------|------|------|
| CPU speed                 | S1/4 | S1/5 |
| 66MHz                     | Off  | On   |
| 75MHz                     | Off  | Off  |
| 83MHz                     | On   | On   |
| 100MHz                    | On   | Off  |

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| CPU MULTIPLIER SELECTION |      |      |      |
|--------------------------|------|------|------|
| Multiplier               | S1/1 | S1/2 | S1/3 |
| 1.5x                     | Off  | Off  | Off  |
| 2x                       | On   | Off  | Off  |
| 2.5x                     | On   | On   | Off  |
| 3x                       | Off  | On   | Off  |
| 3.5x                     | Off  | Off  | Off  |

| CPU VOLTAGE SELECTION |        |      |      |      |       |
|-----------------------|--------|------|------|------|-------|
| Voltage               | V core | S1/7 | S1/8 | S1/9 | S1/10 |
| 3.3v                  | 2.1v   | Off  | Off  | Off  | Off   |
| 3.3v                  | 2.2v   | On   | Off  | Off  | Off   |
| 3.3v                  | 2.3v   | Off  | On   | Off  | Off   |
| 3.3v                  | 2.4v   | On   | On   | Off  | Off   |
| 3.3v                  | 2.5v   | Off  | Off  | On   | Off   |
| 3.3v                  | 2.6v   | On   | Off  | On   | Off   |
| 3.3v                  | 2.7v   | Off  | On   | On   | Off   |
| 3.3v                  | 2.8v   | On   | On   | On   | Off   |
| 3.3v                  | 2.9v   | Off  | Off  | Off  | On    |
| 3.3v                  | 3.0v   | On   | Off  | Off  | On    |
| 3.3v                  | 3.1v   | Off  | On   | Off  | On    |
| 3.3v                  | 3.2v   | On   | On   | Off  | On    |
| 3.3v                  | 3.3v   | Off  | Off  | On   | On    |
| 3.3v                  | 3.4v   | On   | Off  | On   | On    |
| 3.5v                  | 3.5v   | Off  | On   | On   | On    |
| 3.3v                  | 3.6v   | On   | On   | On   | On    |