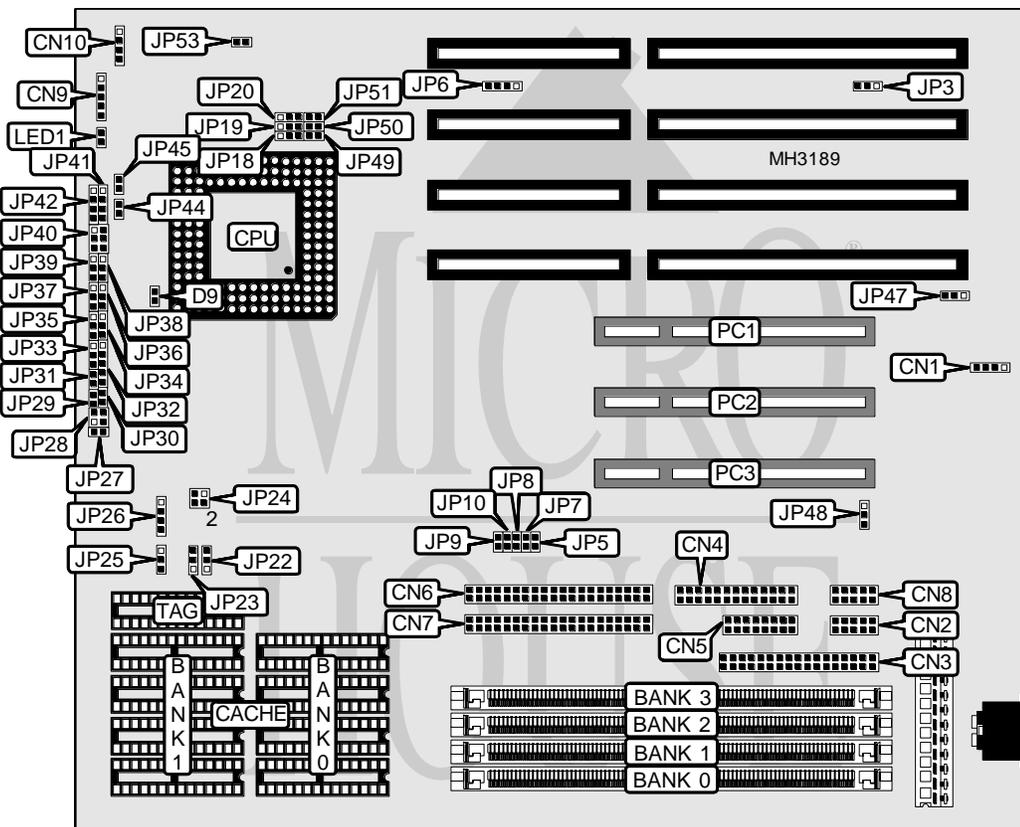


AQUARIUS SYSTEMS, INC.

MB-4DUPC

| | |
|--------------------------|---|
| Processor | CX486S/80486SX/SL80486SX/CX486DX/AM486DX/UMCU5S/80486DX/ SL80486DX/CX486DX2/AM486DX2/80486DX2/SL80486DX2/AM486DX4/ 80486DX4/P24D/Pentium Overdrive/CXM1 |
| Processor Speed | 20/25/33/40/50(internal)/50/66(internal)/75(internal)/100(internal)/MHz |
| Chip Set | UMC |
| Max. Onboard DRAM | 128MB |
| Cache | 128/256/512KB |
| BIOS | Award |
| Dimensions | 260mm x 220mm |
| I/O Options | 32-bit PCI slots (3), floppy drive interface, game port, green PC connector, IDE interfaces (2), parallel port, serial ports (2) |
| NPU Options | None |



| CONNECTIONS | | | |
|------------------------|----------|---------------------|-----------|
| Purpose | Location | Purpose | Location |
| External battery | CN1 | Power LED & keylock | CN9 |
| Serial port 2 | CN2 | Speaker | CN10 |
| Floppy drive interface | CN3 | IDE interface LED | D9 |
| Parallel port | CN4 | Green PC connector | JP9 |
| Game interface | CN5 | Turbo switch | JP44 |
| IDE interface 2 | CN6 | Reset switch | JP45 |
| IDE interface 1 | CN7 | Turbo LED | LED1 |
| Serial port 1 | CN8 | 32-bit PCI slots | PC1 - PC3 |

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| USER CONFIGURABLE SETTINGS | | |
|-------------------------------------|--------|-------------------|
| Function | Jumper | Position |
| Flash BIOS voltage select 12v | JP3 | pins 1 & 2 closed |
| Flash BIOS voltage select 5v | JP3 | pins 2 & 3 closed |
| CMOS memory normal operation | JP6 | pins 1 & 2 closed |
| CMOS memory clear | JP6 | pins 3 & 4 closed |
| í Factory configured - do not alter | JP28 | Open |
| í Factory configured - do not alter | JP29 | Open |
| í Factory configured - do not alter | JP31 | Open |
| í Factory configured - do not alter | JP37 | Open |

| DRAM CONFIGURATION | | | | |
|--------------------|---------------|---------------|---------------|---------------|
| Size | Bank 0 | Bank 1 | Bank 2 | Bank 3 |
| 2MB | (1) 512K x 36 | NONE | NONE | NONE |
| 4MB | (1) 512K x 36 | (1) 512K x 36 | NONE | NONE |
| 4MB | (1) 1M x 36 | NONE | NONE | NONE |
| 8MB | (1) 512K x 36 |
| 8MB | (1) 1M x 36 | (1) 1M x 36 | NONE | NONE |
| 8MB | (1) 2M x 36 | NONE | NONE | NONE |
| 16MB | (1) 1M x 36 |
| 16MB | (1) 2M x 36 | (1) 2M x 36 | NONE | NONE |
| 16MB | (1) 4M x 36 | NONE | NONE | NONE |
| 32MB | (1) 2M x 36 |
| 32MB | (1) 4M x 36 | (1) 4M x 36 | NONE | NONE |
| 32MB | (1) 8M x 36 | NONE | NONE | NONE |
| 64MB | (1) 4M x 36 |
| 64MB | (1) 8M x 36 | (1) 8M x 36 | NONE | NONE |
| 128MB | (1) 8M x 36 |

| CACHE CONFIGURATION | | | |
|---------------------|--------------|-------------|-------------|
| Size | Bank 0 | Bank 1 | TAG |
| 128KB | (4) 32K x 8 | NONE | (1) 8K x 8 |
| 256KB (A) | (4) 64K x 8 | NONE | (1) 32K x 8 |
| 256KB (B) | (4) 32K x 8 | (4) 32K x 8 | (1) 32K x 8 |
| 512KB | (4) 128K x 8 | NONE | (1) 32K x 8 |

| CACHE JUMPER CONFIGURATION | | | |
|----------------------------|--------------------------|-------------------|--------------------------|
| Size | JP24 | JP25 | JP26 |
| 128KB | Open | pins 1 & 2 closed | Open |
| 256KB (A) | pins 1 & 2 closed | pins 1 & 2 closed | pins 1 & 2 closed |
| 256KB (B) | pins 1 & 2 closed | pins 2 & 3 closed | Open |
| 512KB | pins 1 & 2, 3 & 4 closed | pins 1 & 2 closed | pins 1 & 2, 3 & 4 closed |

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AQUARIUS SYSTEMS, INC.

MB - 4 D U P C

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| CPU TYPE CONFIGURATION | | | | | |
|------------------------|--------|--------|--------------|--------------|-------|
| Type | JP10 | JP27 | JP30 | JP32 | JP34 |
| CX486S | Open | Open | Open | 1 & 2, 3 & 4 | 1 & 2 |
| 80486SX | Closed | Open | Open | Open | Open |
| SL80486SX | Open | Open | Open | 2 & 3, 4 & 5 | Open |
| CX486DX | Open | Open | 3 & 4 | 1 & 2, 3 & 4 | 1 & 2 |
| AM486DX | Closed | Open | 3 & 4 | Open | Open |
| UMC U5S | Closed | Open | 1 & 2, 3 & 4 | Open | Open |
| 80486DX | Closed | Open | 3 & 4 | Open | Open |
| SL80486DX | Open | Open | 3 & 4 | 2 & 3, 4 & 5 | Open |
| CX486DX2 | Open | Open | 3 & 4 | 1 & 2, 3 & 4 | 1 & 2 |
| AM486DX2 | Closed | Open | 3 & 4 | Open | Open |
| 80486DX2 | Closed | Open | 3 & 4 | Open | Open |
| SL80486DX2 | Open | Open | 3 & 4 | 2 & 3, 4 & 5 | Open |
| AM486DX4 | Closed | Open | 3 & 4 | Open | Open |
| 80486DX4 | Open | Open | 3 & 4 | 2 & 3, 4 & 5 | Open |
| P24D | Open | Open | 3 & 4 | 2 & 3, 4 & 5 | Open |
| P24T | Open | Open | 2 & 3 | 2 & 3, 4 & 5 | 2 & 3 |
| CX M1 | Open | Closed | 3 & 4 | 2 & 3, 4 & 5 | 1 & 2 |

Note: Pins designated should be in the closed position.

| CPU TYPE CONFIGURATION (CON'T) | | | | |
|--------------------------------|-------|-------|-------|-------|
| Type | JP35 | JP36 | JP39 | JP39 |
| CX486S | 2 & 3 | 2 & 3 | 1 & 2 | 1 & 2 |
| 80486SX | Open | Open | Open | Open |
| SL80486SX | Open | 1 & 2 | 1 & 2 | 1 & 2 |
| CX486DX | 2 & 3 | 2 & 3 | 1 & 2 | 1 & 2 |
| AM486DX | Open | Open | Open | Open |
| UMC U5S | Open | Open | 2 & 3 | 2 & 3 |
| 80486DX | Open | Open | Open | Open |
| SL80486DX | Open | 1 & 2 | Open | Open |
| CX486DX2 | 2 & 3 | 2 & 3 | 1 & 2 | 1 & 2 |
| AM486DX2 | Open | Open | Open | Open |
| 80486DX2 | Open | Open | Open | Open |
| SL80486DX2 | Open | 1 & 2 | Open | Open |
| AM486DX4 | Open | Open | Open | Open |
| 80486DX4 | Open | 1 & 2 | Open | Open |
| P24D | Open | 1 & 2 | 1 & 2 | 1 & 2 |
| P24T | 1 & 2 | 1 & 2 | Open | Open |
| CX M1 | 2 & 3 | 1 & 2 | 1 & 2 | 1 & 2 |

Note: Pins designated should be in the closed position.

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| CPU TYPE CONFIGURATION | | | | |
|------------------------|-------|--------------|-------|--------------|
| Type | JP39 | JP40 | JP41 | JP42 |
| CX486S | 1 & 2 | 3 & 4 | 1 & 2 | 2 & 3 |
| 80486SX | Open | 1 & 2 | Open | 2 & 3 |
| SL80486SX | 1 & 2 | 3 & 4 | Open | 2 & 3 |
| CX486DX | 1 & 2 | 3 & 4 | 2 & 3 | 1 & 2, 3 & 4 |
| AM486DX | Open | 1 & 2 | Open | 1 & 2, 3 & 4 |
| UMC U5S | 2 & 3 | 1 & 2 | 3 & 4 | 2 & 3 |
| 80486DX | Open | 1 & 2 | Open | 1 & 2, 3 & 4 |
| SL80486DX | 1 & 2 | 3 & 4 | Open | 1 & 2, 3 & 4 |
| CX486DX2 | 1 & 2 | 3 & 4 | 2 & 3 | 1 & 2, 3 & 4 |
| AM486DX2 | Open | 1 & 2 | Open | 1 & 2, 3 & 4 |
| 80486DX2 | Open | 1 & 2 | Open | 1 & 2, 3 & 4 |
| SL80486DX2 | 1 & 2 | 3 & 4 | Open | 1 & 2, 3 & 4 |
| AM486DX4 | Open | 1 & 2 | Open | 1 & 2, 3 & 4 |
| 80486DX4 | 1 & 2 | 3 & 4 | Open | 1 & 2, 3 & 4 |
| P24D | 1 & 2 | 3 & 4 | Open | 1 & 2, 3 & 4 |
| P24T | 1 & 2 | 3 & 4, 5 & 6 | 2 & 3 | 1 & 2, 3 & 4 |
| CX M1 | 1 & 2 | 3 & 4 | Open | 1 & 2, 3 & 4 |

Note: Pins designated should be in the closed position.

| CPU TYPE CONFIGURATION | | |
|------------------------|-------------------|-------------------|
| Type | JP22 | JP23 |
| Cyrix | pins 2 & 3 closed | pins 1 & 2 closed |
| AMD | pins 1 & 2 closed | pins 2 & 3 closed |
| UMC | pins 1 & 2 closed | pins 2 & 3 closed |
| Intel | pins 1 & 2 closed | pins 1 & 2 closed |

| CPU SPEED CONFIGURATION | | | |
|-------------------------|--------|--------|--------|
| Speed | JP5 | JP7 | JP8 |
| 20MHz | Open | Open | Open |
| 25MHz | Open | Open | Closed |
| 33MHz | Closed | Closed | Closed |
| 40MHz | Open | Closed | Closed |
| 50iMHz | Open | Open | Closed |
| 50MHz | Closed | Open | Open |
| 66iMHz | Closed | Closed | Closed |
| 75iMHz | Open | Open | Closed |
| 100iMHz | Closed | Closed | Closed |

| CPU SPEED CONFIGURATION (80486DX4 ONLY) | |
|---|-------------------|
| Speed | JP33 |
| 2x | pins 2 & 3 closed |
| 2.5x | pins 1 & 2 closed |
| 3x | Open |

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| CPU CONFIGURATION | |
|--------------------|-------------------|
| Type | JP38 |
| P24D write through | pins 1 & 2 closed |
| P24D write back | pins 2 & 3 closed |
| AMD CPU 2x | pins 1 & 2 closed |
| AMD CPU 3x | Open |
| Other CPU types | Open |

| CPU VOLTAGE CONFIGURATION | | | | | | | |
|---------------------------|-------|-------|-------|--------|--------|--------|--------|
| Voltage | JP18 | JP19 | JP20 | JP49 | JP50 | JP51 | JP53 |
| 3.3v | 1 & 2 | 1 & 2 | 1 & 2 | Open | Open | Open | Closed |
| 3.45v | 1 & 2 | 1 & 2 | 1 & 2 | Closed | Open | Open | Open |
| 3.6v | 1 & 2 | 1 & 2 | 1 & 2 | Open | Closed | Open | Open |
| 4v | 1 & 2 | 1 & 2 | 1 & 2 | Open | Open | Closed | Open |
| 5v | 2 & 3 | 2 & 3 | 2 & 3 | Open | Open | Open | Open |

Note: Pins designated should be in the closed position.

| DMA CONFIGURATION | | |
|-------------------|-------------------|-------------------|
| DMA | JP47 | JP48 |
| DMA 1 | pins 1 & 2 closed | pins 1 & 2 closed |
| DMA 3 | pins 2 & 3 closed | pins 2 & 3 closed |