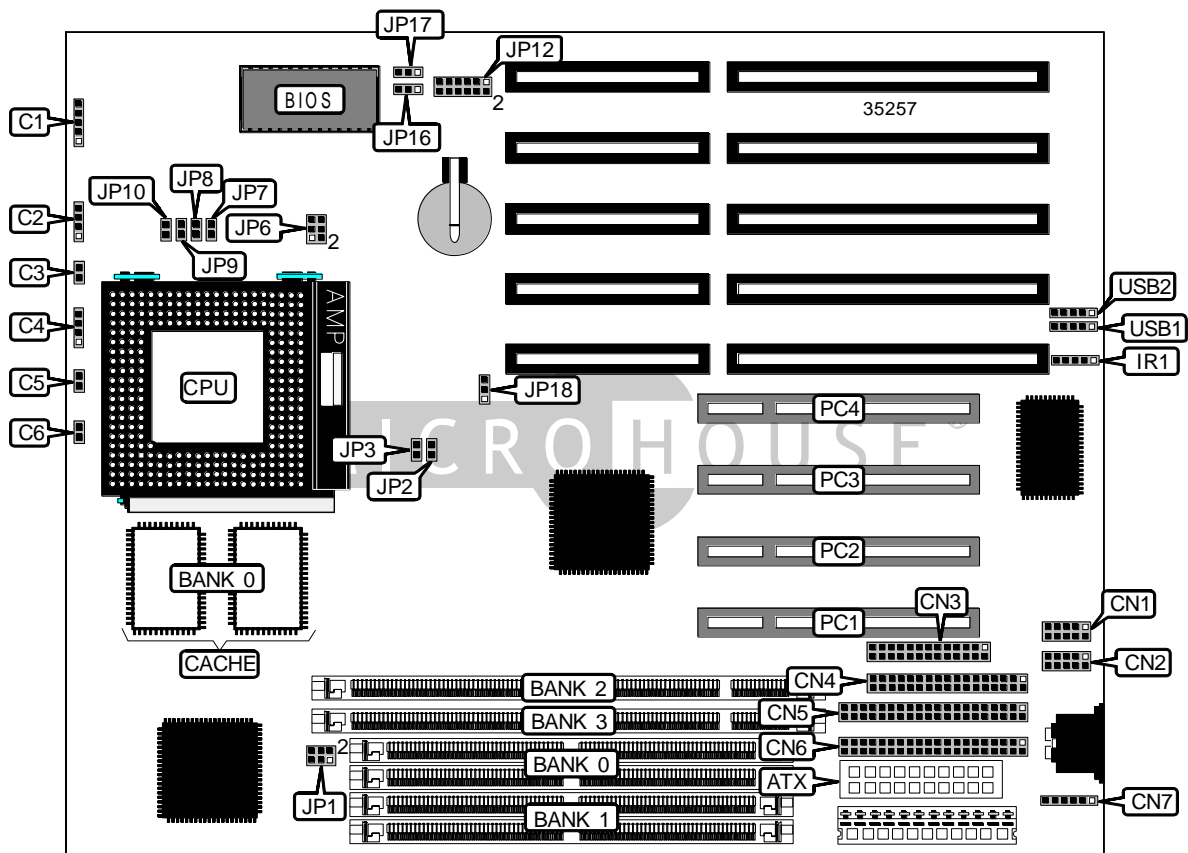


M TECHNOLOGY, INC.

R539 MIG

| | |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Device Type | Mainboard |
| Processor | CX 6X86/IBM 6X86/CX 6X86L/IBM 6X86L/AM K5/ AM K6/Pentium/Pentium MMX |
| Processor Speed | 90/100/120/133/150/166/180/200/233MHz |
| Chip Set | Intel |
| Video Chip Set | None |
| Maximum Onboard Memory | 256MB (EDO & SDRAM supported) |
| Maximum Video Memory | None |
| Cache | 512KB |
| BIOS | Award |
| Dimensions | 280mm x 220mm |
| I/O Options | 32-bit PCI slots (4), floppy drive interface, IDE interfaces (2), parallel port, PS/2 mouse interface, serial ports (2), IR connector, USB connectors (2), ATX power connector |
| NPU Options | None |



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| CONNECTIONS | | | |
|-----------------------|----------|------------------------|-----------|
| Purpose | Location | Purpose | Location |
| ATX power connector | ATX | Floppy drive interface | CN4 |
| Power LED & keylock | C1 | IDE interface 2 | CN5 |
| Speaker | C2 | IDE interface 1 | CN6 |
| Reset switch | C3 | PS/2 mouse interface | CN7 |
| IDE interface LED | C4 | IR connector | IR1 |
| Soft off power supply | C5 | 32-bit PCI slots | PC1 – PC4 |
| Serial port 2 | CN1 | USB connector 1 | USB1 |
| Serial port 1 | CN2 | USB connector 2 | USB2 |
| Parallel port | CN3 | | |

| USER CONFIGURABLE SETTINGS | | |
|-------------------------------------|-------|-------------------|
| Function | Label | Position |
| í Power supply type select ATX | C6 | Closed |
| Power supply type select AT | C6 | Open |
| í Factory configured - do not alter | JP10 | Unidentified |
| í CMOS memory normal operation | JP18 | Pins 1 & 2 closed |
| CMOS memory clear | JP18 | Pins 2 & 3 closed |

| SIMM CONFIGURATION | | |
|--------------------|--------------|-------------|
| Size | Bank 0 | Bank 1 |
| 8MB | (2) 1M x 36 | None |
| 16MB | (2) 2M x 36 | None |
| 16MB | (2) 1M x 36 | (2) 1M x 36 |
| 24MB | (2) 2M x 36 | (2) 1M x 36 |
| 32MB | (2) 4M x 36 | None |
| 32MB | (2) 2M x 36 | (2) 2M x 36 |
| 40MB | (2) 4M x 36 | (2) 1M x 36 |
| 48MB | (2) 4M x 36 | (2) 2M x 36 |
| 64MB | (2) 8M x 36 | None |
| 64MB | (2) 4M x 36 | (2) 4M x 36 |
| 72MB | (2) 8M x 36 | (2) 1M x 36 |
| 80MB | (2) 8M x 36 | (2) 2M x 36 |
| 96MB | (2) 8M x 36 | (2) 4M x 36 |
| 128MB | (2) 8M x 36 | (2) 8M x 36 |
| 128MB | (2) 16M x 36 | None |
| 136MB | (2) 16M x 36 | (2) 1M x 36 |

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| SIMM CONFIGURATION (CON'T) | | |
|---------------------------------|--------------|--------------|
| Size | Bank 0 | Bank 1 |
| 144MB | (2) 16M x 36 | (2) 2M x 36 |
| 160MB | (2) 16M x 36 | (2) 4M x 36 |
| 192MB | (2) 16M x 36 | (2) 8M x 36 |
| 256MB | (2) 16M x 36 | (2) 16M x 36 |
| Note: Board accepts EDO memory. | | |

| DIMM CONFIGURATION | | |
|-----------------------------------|--------------|--------------|
| Size | Bank 2 | Bank 3 |
| 8MB | (1) 1M x 64 | None |
| 16MB | (1) 2M x 64 | None |
| 16MB | (1) 1M x 64 | (1) 1M x 64 |
| 24MB | (1) 2M x 64 | (1) 1M x 64 |
| 32MB | (1) 4M x 64 | None |
| 32MB | (1) 2M x 64 | (1) 2M x 64 |
| 40MB | (1) 4M x 64 | (1) 1M x 64 |
| 48MB | (1) 4M x 64 | (1) 2M x 64 |
| 64MB | (1) 8M x 64 | None |
| 64MB | (1) 4M x 64 | (1) 4M x 64 |
| 72MB | (1) 8M x 64 | (1) 1M x 64 |
| 80MB | (1) 8M x 64 | (1) 2M x 64 |
| 96MB | (1) 8M x 64 | (1) 4M x 64 |
| 128MB | (1) 16M x 64 | None |
| 128MB | (1) 8M x 64 | (1) 8M x 64 |
| 136MB | (1) 16M x 64 | (1) 1M x 64 |
| 144MB | (1) 16M x 64 | (1) 2M x 64 |
| 160MB | (1) 16M x 64 | (1) 4M x 64 |
| 192MB | (1) 16M x 64 | (1) 8M x 64 |
| 256MB | (1) 16M x 64 | (1) 16M x 64 |
| Note: Board accepts SDRAM memory. | | |

| DIMM VOLTAGE CONFIGURATION | |
|----------------------------|--------------------------|
| Voltage | JP1 |
| 3.3v | Pins 3 & 5, 4 & 6 closed |
| 5v | Pins 1 & 3, 2 & 4 closed |

| CACHE CONFIGURATION | |
|---------------------|--------------|
| Size | Bank 0 |
| 512KB | (2) 64K x 32 |

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| CPU SPEED SELECTION (CX 6X86) | | | | | | | |
|-------------------------------|-------------|------------|--------|--------|--------|------|--------|
| CPU speed | Clock speed | Multiplier | JP2 | JP3 | JP7 | JP8 | JP9 |
| 133MHz | 55MHz | 2x | Closed | Closed | Open | Open | Closed |
| 150MHz | 60MHz | 2x | Closed | Open | Closed | Open | Closed |
| 166MHz | 66MHz | 2x | Open | Open | Open | Open | Closed |
| 200MHz | 75MHz | 2x | Open | Closed | Open | Open | Closed |

| CPU SPEED SELECTION (IBM 6X86) | | | | | | | |
|--------------------------------|-------------|------------|--------|--------|--------|------|--------|
| CPU speed | Clock speed | Multiplier | JP2 | JP3 | JP7 | JP8 | JP9 |
| 133MHz | 55MHz | 2x | Closed | Closed | Open | Open | Closed |
| 150MHz | 60MHz | 2x | Closed | Open | Closed | Open | Closed |
| 166MHz | 66MHz | 2x | Open | Open | Open | Open | Closed |
| 200MHz | 75MHz | 2x | Open | Closed | Open | Open | Closed |

| CPU SPEED SELECTION (CX 6X86L) | | | | | | | |
|--------------------------------|-------------|------------|--------|--------|--------|------|--------|
| CPU speed | Clock speed | Multiplier | JP2 | JP3 | JP7 | JP8 | JP9 |
| 133MHz | 55MHz | 2x | Closed | Closed | Open | Open | Closed |
| 150MHz | 60MHz | 2x | Closed | Open | Closed | Open | Closed |
| 166MHz | 66MHz | 2x | Open | Open | Open | Open | Closed |
| 200MHz | 75MHz | 2x | Open | Closed | Open | Open | Closed |

| CPU SPEED SELECTION (IBM 6X86L) | | | | | | | |
|---------------------------------|-------------|------------|--------|--------|--------|------|--------|
| CPU speed | Clock speed | Multiplier | JP2 | JP3 | JP7 | JP8 | JP9 |
| 133MHz | 55MHz | 2x | Closed | Closed | Open | Open | Closed |
| 150MHz | 60MHz | 2x | Closed | Open | Closed | Open | Closed |
| 166MHz | 66MHz | 2x | Open | Open | Open | Open | Closed |
| 200MHz | 75MHz | 2x | Open | Closed | Open | Open | Closed |

| CPU SPEED SELECTION (AM K5) | | | | | | | |
|-----------------------------|-------------|------------|--------|------|--------|--------|--------|
| CPU speed | Clock speed | Multiplier | JP2 | JP3 | JP7 | JP8 | JP9 |
| 90MHz | 60MHz | 1.5x | Closed | Open | Closed | Open | Open |
| 100MHz | 66MHz | 1.5x | Open | Open | Open | Open | Open |
| 166MHz | 66MHz | 2.5x | Open | Open | Open | Closed | Closed |

| CPU SPEED SELECTION (AM K6) | | | | | | | |
|-----------------------------|-------------|------------|------|------|------|--------|--------|
| CPU speed | Clock speed | Multiplier | JP2 | JP3 | JP7 | JP8 | JP9 |
| 166MHz | 66MHz | 2.5x | Open | Open | Open | Closed | Closed |
| 200MHz | 66MHz | 3x | Open | Open | Open | Closed | Open |
| 233MHz | 66MHz | 3.5x | Open | Open | Open | Open | Open |

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| CPU SPEED SELECTION (INTEL) | | | | | | | |
|-----------------------------|-------------|------------|--------|------|--------|--------|--------|
| CPU speed | Clock speed | Multiplier | JP2 | JP3 | JP7 | JP8 | JP9 |
| 90MHz | 60MHz | 1.5x | Closed | Open | Closed | Open | Open |
| 100MHz | 66MHz | 1.5x | Open | Open | Open | Open | Open |
| 120MHz | 60MHz | 2x | Closed | Open | Closed | Open | Closed |
| 133MHz | 66MHz | 2x | Open | Open | Open | Open | Closed |
| 150MHz | 60MHz | 2.5x | Closed | Open | Closed | Closed | Closed |
| 166MHz | 66MHz | 2.5x | Open | Open | Open | Closed | Closed |
| 180MHz | 60MHz | 3x | Closed | Open | Closed | Closed | Open |
| 200MHz | 66MHz | 3x | Open | Open | Open | Closed | Open |

| CPU SPEED SELECTION (INTEL MMX) | | | | | | | |
|---------------------------------|-------------|------------|------|------|------|--------|--------|
| CPU speed | Clock speed | Multiplier | JP2 | JP3 | JP7 | JP8 | JP9 |
| 166MHz | 66MHz | 2.5x | Open | Open | Open | Closed | Closed |
| 200MHz | 66MHz | 3x | Open | Open | Open | Closed | Open |

| CPU VOLTAGE SELECTION (SINGLE) | | | |
|--------------------------------|--|---------------------------------|-------------------|
| Voltage | | JP6 | JP12 |
| 3.4v | | Pins 1 & 2, 3 & 4, 5 & 6 closed | Pins 3 & 4 closed |
| 3.5v | | Pins 1 & 2, 3 & 4, 5 & 6 closed | Pins 1 & 2 closed |

| CPU VOLTAGE SELECTION (DUAL) | | | |
|------------------------------|--|--------|------|
| Voltage | | V core | JP6 |
| 3.4v | | 2.5v | Open |
| 3.4v | | 2.8v | Open |
| 3.4v | | 2.9v | Open |
| 3.4v | | 3.2v | Open |

| BIOS SELECTION | | |
|----------------|-------------------|-------------------|
| Type | JP16 | JP17 |
| 1M/5v | Pins 1 & 2 closed | Pins 2 & 3 closed |
| 2M/5v | Pins 1 & 2 closed | Pins 1 & 2 closed |