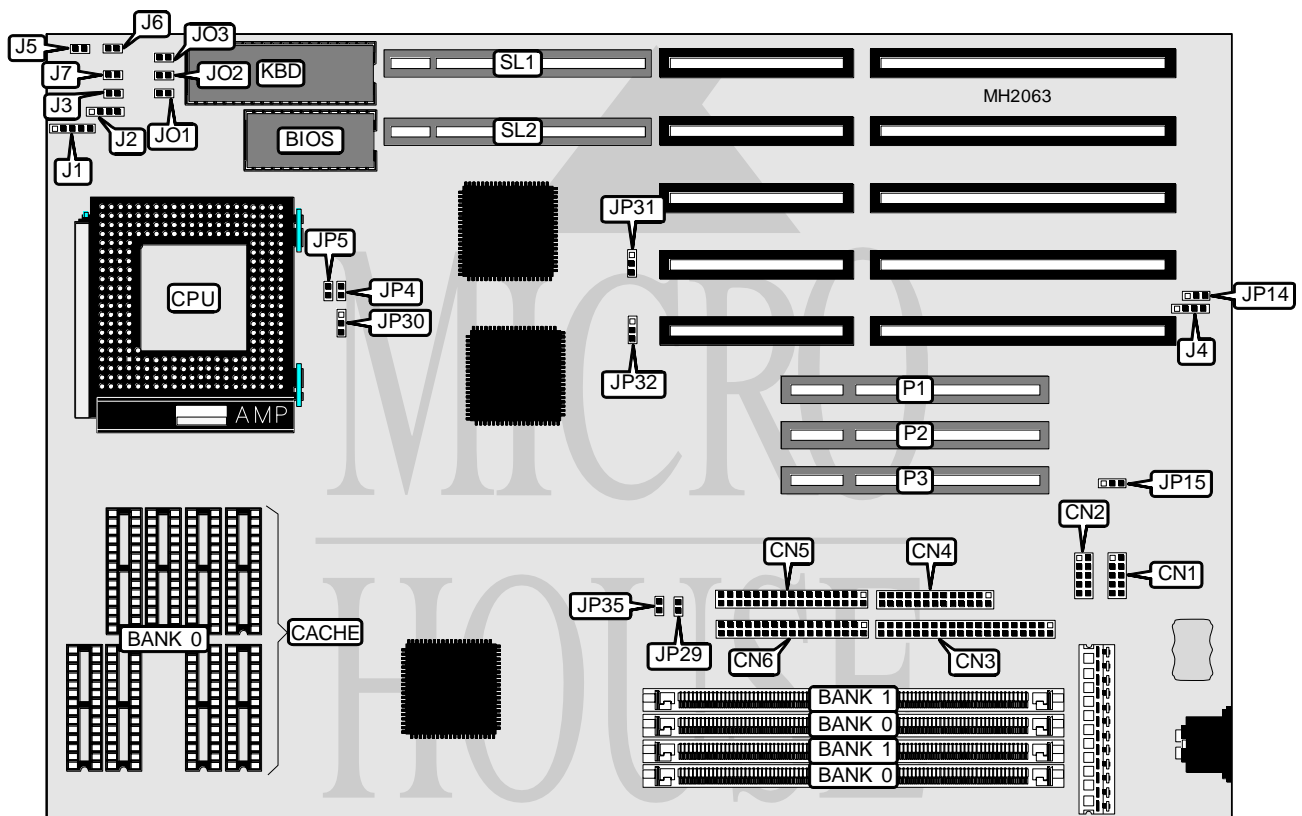


# ADVANCED INTEGRATION RESEARCH, INC.

## 54CMI REV. 1.0

|                          |   |
|--------------------------|---|
| <b>Processor</b>         | Pentium Overdrive/Pentium   |
| <b>Processor Speed</b>   | 75/90/100MHz  |
| <b>Chip Set</b>          | OPTI  |
| <b>Max. Onboard DRAM</b> | 128MB   |
| <b>Cache</b>             | 256/512/1024KB  |
| <b>BIOS</b>              | AMI   |
| <b>Dimensions</b>        | 330mm x 218mm   |
| <b>I/O Options</b>       | 32-bit PCI bus slots (3), 32-bit VESA local bus slots (2), floppy drive interface (2), IDE interface, parallel port, serial ports (2), green PC connector |
| <b>NPU Options</b>       | None  |



| CONNECTIONS              |          |                             |           |
|--------------------------|----------|-----------------------------|-----------|
| Purpose                  | Location | Purpose                     | Location  |
| Serial port 1            | CN1      | Reset switch                | J3        |
| Serial port 2            | CN2      | External battery            | J4        |
| IDE interface            | CN3      | Turbo switch                | J5        |
| Parallel port            | CN4      | Turbo LED                   | J6        |
| Floppy drive interface 2 | CN5      | IDE interface LED           | J7        |
| Floppy drive interface 1 | CN6      | Green PC feature connector  | JP15      |
| Power LED & keylock      | J1       | 32-bit PCI bus slots        | P1 - P3   |
| Speaker                  | J2       | 32-bit VESA Local bus slots | SL1 & SL2 |

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| USER CONFIGURABLE SETTINGS                           |        |                   |
|--|--------|-------------------|
| Function   | Jumper | Position          |
| í Turbo mode enabled/flash BIOS programming disabled | J5     | Closed            |
| Turbo mode disabled/flash BIOS programming enabled   | J5     | Open              |
| í CMOS memory normal operation                       | JP14   | pins 2 & 3 closed |
| CMOS memory clear                                    | JP14   | pins 1 & 2 closed |
| í Parallel port IRQ select IRQ7                      | JP32   | pins 1 & 2 closed |
| Parallel port IRQ select IRQ5                        | JP32   | pins 2 & 3 closed |
| í On board PCI IDE enabled                           | JP35   | Open              |
| On board PCI IDE disabled                            | JP35   | Closed            |

| DRAM CONFIGURATION |               |               |
|--------------------|---------------|---------------|
| Size               | Bank 0        | Bank 1        |
| 2MB                | (2) 256K x 36 | NONE          |
| 4MB                | (2) 256K x 36 | (2) 256K x 36 |
| 4MB                | (2) 512K x 36 | NONE          |
| 6MB                | (2) 256K x 36 | (2) 512K x 36 |
| 8MB                | (2) 512K x 36 | (2) 512K x 36 |
| 8MB                | (2) 1M x 36   | NONE          |
| 10MB               | (2) 256K x 36 | (2) 1M x 36   |
| 12MB               | (2) 512K x 36 | (2) 1M x 36   |
| 16MB               | (2) 1M x 36   | (2) 1M x 36   |
| 16MB               | (2) 2M x 36   | NONE          |
| 18MB               | (2) 256K x 36 | (2) 2M x 36   |
| 20MB               | (2) 512K x 36 | (2) 2M x 36   |
| 24MB               | (2) 1M x 36   | (2) 2M x 36   |
| 32MB               | (2) 2M x 36   | (2) 2M x 36   |
| 32MB               | (2) 4M x 36   | NONE          |
| 34MB               | (2) 256K x 36 | (2) 4M x 36   |
| 36MB               | (2) 512K x 36 | (2) 4M x 36   |
| 40MB               | (2) 1M x 36   | (2) 4M x 36   |
| 48MB               | (2) 2M x 36   | (2) 4M x 36   |
| 64MB               | (2) 4M x 36   | (2) 4M x 36   |
| 64MB               | (2) 8M x 36   | NONE          |
| 66MB               | (2) 256K x 36 | (2) 8M x 36   |
| 68MB               | (2) 512K x 36 | (2) 8M x 36   |
| 72MB               | (2) 1M x 36   | (2) 8M x 36   |
| 80MB               | (2) 2M x 36   | (2) 8M x 36   |
| 96MB               | (2) 4M x 36   | (2) 8M x 36   |
| 128MB              | (2) 8M x 36   | (2) 8M x 36   |

| CACHE CONFIGURATION |              |
|---------------------|--------------|
| Size                | Bank 0       |
| 256KB               | (8) 32K x 8  |
| 512KB               | (8) 64K x 8  |
| 1MB                 | (8) 128K x 8 |

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| CACHE JUMPER CONFIGURATION |        |        |
|----------------------------|--------|--------|
| Size                       | JP4    | JP5    |
| 256KB                      | Open   | Open   |
| 512KB                      | Open   | Closed |
| 1MB                        | Closed | Closed |

| CPU SPEED CONFIGURATION |        |        |        |
|-------------------------|--------|--------|--------|
| Speed                   | JO1    | JO2    | JO3    |
| 75MHz                   | Open   | Open   | Closed |
| 90MHz                   | Open   | Closed | Open   |
| 100MHz                  | Closed | Closed | Open   |

| FOUR FLOPPY DRIVE CONFIGURATION |                  |        |       |       |
|---------------------------------|------------------|--------|-------|-------|
| All drives enabled              | ECP mode enabled | JP29   | JP30  | JP31  |
| Yes                             | No               | Open   | Open  | Open  |
| No                              | Yes, use DMA 3   | Closed | 1 & 2 | 1 & 2 |
| No                              | Yes, use DMA 1   | Closed | 2 & 3 | 2 & 3 |

Note: Pins designated should be in the closed position.

| GREEN PC CONFIGURATION   |       |
|--|-------|
| Description  | JP15  |
| Can be used to control video card VSYNC. Connect to pin 12 on VGA feature connector. | pin 1 |
| Can be used to control video card HSYNC. Connect to pin 11 on VGA feature connector. | pin 2 |
| Enables or disables video signals. Connect this to pin 18 on VGA feature connector.  | pin 3 |