ADVANCED INTEGRATION RESEARCH, INC.
54CPI (REV. 2.10)

Processor	Pentium
Processor Speed	75/90/100/120/133/150/166MHz
Chip Set	Intel
Video Chip Set	None
Maximum Onboard Memory	128MB (EDO supported)
Maximum Video Memory	None
Cache	256/512KB
BIOS	AMI
Dimensions	305mm x 220mm
I/O Options	32-bit PCI slots (4), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse interface, serial ports (2), cache slot
NPU Options	None
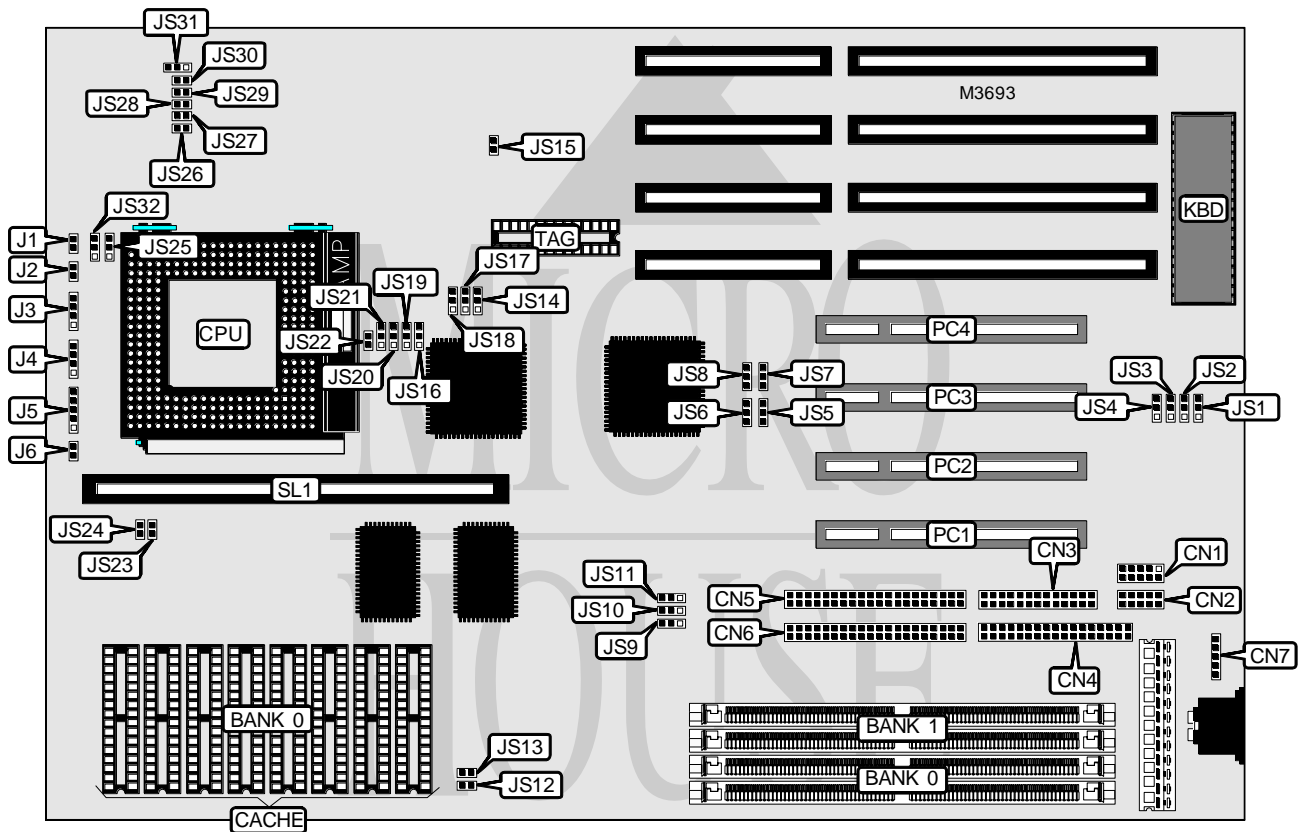
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CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
Serial port 1	CN1	Reset switch	J2
Serial port 2	CN2	Speaker	J3
Parallel port	CN3	IDE interface LED	J4
Floppy drive interface	CN4	Power LED & keylock	J5
IDE interface 2	CN5	Turbo LED	J6
IDE interface 1	CN6	Cache slot	SL1
PS/2 mouse interface	CN7	32-bit PCI slots	PC1 - PC4
Green PC connector	J1		

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
í Parallel port IRQ select IRQ7	JS5	Pins 1 & 2 closed
Parallel port IRQ select IRQ5	JS5	Pins 2 & 3 closed
	JS14	Unidentified
í Monitor type select monochrome/EGA/VGA	JS15	Open
Monitor type select CGA	JS15	Closed
í Flash BIOS voltage select 12v	JS17	Pins 1 & 2 closed
Flash BIOS voltage select 5v	JS17	Pins 2 & 3 closed
í CMOS memory normal operation	JS18	Pins 1 & 2 closed
CMOS memory clear	JS18	Pins 2 & 3 closed
í Pipeline cache mode disabled	JS22	Open
Pipeline cache mode enabled	JS22	Closed
í Factory configured - do not alter	JS26	Closed
í Factory configured - do not alter	JS27	Closed
í Factory configured - do not alter	JS28	Closed
í Factory configured - do not alter	JS29	Closed
í Factory configured - do not alter	JS30	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) 512K x 36	(2) 256K 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) 2M x 36	None
16MB	(2) 1M x 36	(2) 1M x 36
18MB	(2) 256K x 36	(2) 2M x 36
20MB	(2) 512K x 36	(2) 2M x 36
24MB	(2) 2M x 36	(2) 1M x 36

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DRAM CONFIGURATION (CON'T)		
Size	**Bank 0**	**Bank 1**
32MB	(2) 4M x 36	None
32MB	(2) 2M x 36	(2) 2M x 36
34MB	(2) 256K x 36	(2) 4M x 36
36MB	(2) 512K x 36	(2) 4M 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
66MB	(2) 256K x 36	(2) 8M x 36
68MB	(2) 512K x 36	(2) 8M 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
Note: Board accepts EDO memory. Board also accepts x 32 SIMMs.		

CACHE CONFIGURATION			
Size	**Bank 0**	**TAG**	**SL1**
256KB (A)	(8) 32K x 8	(1) 32K x 8	Not installed
256KB (B)	None	None	256KB module installed
512KB (A)	(8) 64K x 8	(1) 32K x 8	Not installed
512KB (B)	None	None	512KB module installed

CACHE JUMPER CONFIGURATION				
Size	**JS16**	**JS19**	**JS20**	**JS21**
256KB (A)	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 1 & 2 closed	Pins 1 & 2 closed
256KB (B)	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
512KB (A)	Pins 2 & 3 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 2 & 3 closed
512KB (B)	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed

CACHE VOLTAGE CONFIGURATION				
Voltage	**JS12**	**JS13**	**JS23**	**JS24**
í Mixed	Closed	Closed	Open	Open
3.3v	Open	Open	Closed	Closed

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CPU SPEED SELECTION							
CPU speed	**Clock speed**	**Multiplier**	**JS9**	**JS10**	**JS11**	**JS25**	**JS32**
75MHz	50MHz	1.5x	1 & 2	2 & 3	1 & 2	1 & 2	1 & 2
90MHz	60MHz	1.5x	1 & 2	1 & 2	2 & 3	1 & 2	1 & 2
100MHz	66MHz	1.5x	2 & 3	2 & 3	2 & 3	1 & 2	1 & 2
120MHz	60MHz	2x	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3
133MHz	66MHz	2x	2 & 3	2 & 3	2 & 3	1 & 2	2 & 3
150MHz	60MHz	2.5x	1 & 2	1 & 2	2 & 3	2 & 3	2 & 3
166MHz	66MHz	2.5x	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3
Note: Pins designated should be in the closed position.							

CPU VOLTAGE SELECTION	
Voltage	**JS31**
íSTD/VR	Pins 2 & 3 closed
VRE	Pins 1 & 2 closed

DMA CHANNEL SELECTION			
Channel	**JS1**	**JS7**	**JS8**
í Normal	Open	Open	Open
1	Closed	Pins 2 & 3 closed	Pins 2 & 3 closed
3	Closed	Pins 1 & 2 closed	Pins 1 & 2 closed

FLOPPY DRIVE SELECTION		
Setting	**JS2**	**JS6**
í Normal	Open	Open
Enhanced	Closed	Pins 2 & 3 closed

SERIAL PORT SELECTION		
Setting	**JS3**	**JS4**
Used as COM2	Pins 1 & 2 closed	Pins 1 & 2 closed
Used as IR connector	Pins 2 & 3 closed	Pins 2 & 3 closed