

ADVANCED INTEGRATION RESEARCH, INC.
54CPI (REV. 2.00)

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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
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

DRAM 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) 1M x 36	(2) 2M x 36
32MB	(2) 4M x 36	None
32MB	(2) 2M x 36	(2) 2M x 36
40MB	(2) 1M x 36	(2) 4M x 36
48MB	(2) 2M x 36	(2) 4M x 36
64MB	(2) 8M x 36	None
64MB	(2) 4M x 36	(2) 4M 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

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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

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