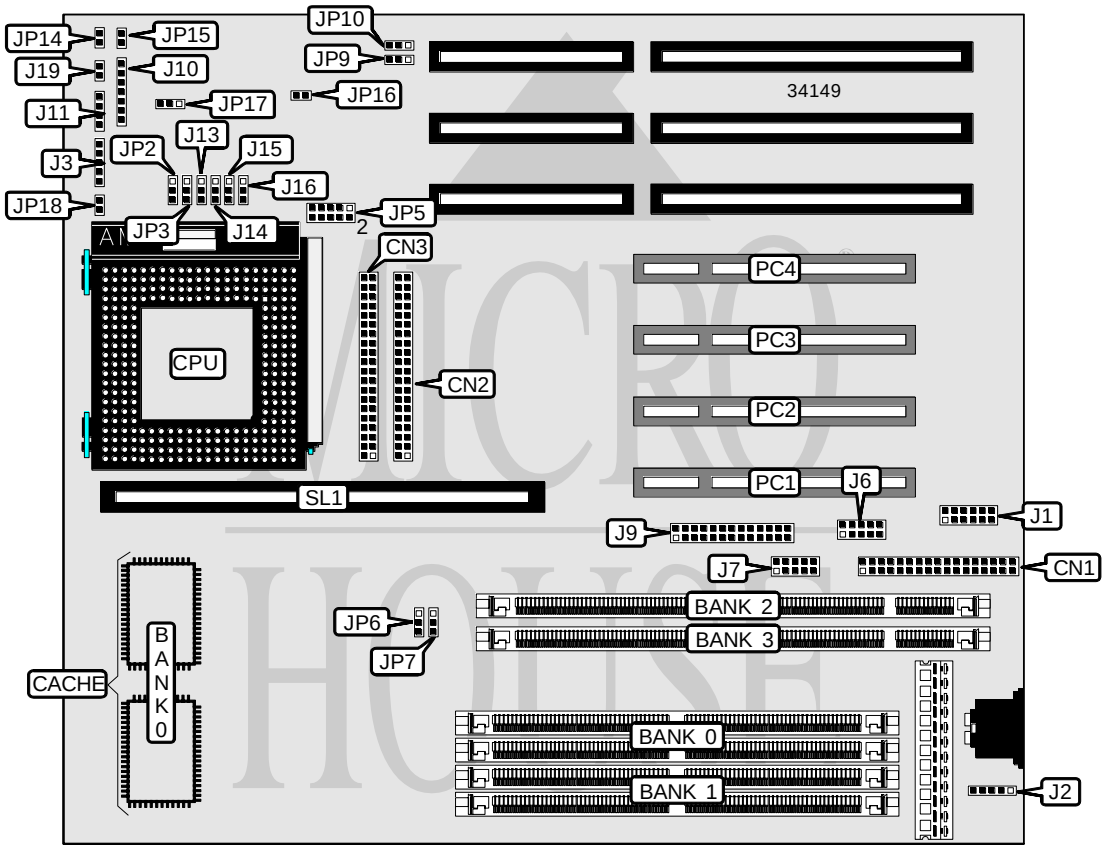
VTECH INDUSTRIES, INC.
M B 5 2 0 N D

Processor	CX M1/AM K5/Pentium
Processor Speed	75/90/100/120/133/150/166/180/200MHz
Chip Set	Unidentified
Video Chip Set	None
Maximum Onboard Memory	128MB (EDO supported)
Maximum Video Memory	None
Cache	256/512KB
BIOS	Award
Dimensions	254mm x 218mm
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, IR connector, USB connector
NPU Options	None



Continued on next page. . .

VTECH INDUSTRIES, INC.
M B 5 2 0 N D

. . . continued from previous page

CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
Floppy drive interface	CN1	IR connector	J10
IDE interface 1	CN2	Speaker	J11
IDE interface 2	CN3	Reset switch	J19
USB connector	J1	IDE interface LED	JP14
PS/2 mouse interface	J2	Green PC connector	JP15
Power LED & keylock	J3	Chassis fan power	JP18
Serial port 1	J6	32-bit PCI slots	PC1 – PC4
Serial port 2	J7	Cache slot	SL1
Parallel port	J9		

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
Flash BIOS type select SST/Winbond/ATMEL/MX	JP9	Pins 1 & 2 closed
Flash BIOS type select Intel	JP9	Pins 2 & 3 closed
Flash BIOS voltage select 12v	JP10	Pins 2 & 3 closed
Flash BIOS voltage select 5v	JP10	Pins 1 & 2 closed
í CMOS memory normal operation	JP16	Open
CMOS memory clear	JP16	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) 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
Note: Board accepts EDO memory. Banks are interchangeable.		

Continued on next page. . .

VTECH INDUSTRIES, INC.
M B 5 2 0 N D

. . . continued from previous page

DIMM CONFIGURATION		
Size	**Bank 0**	**Bank 1**
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) 4M x 64	(1) 4M x 64
Note: Banks are interchangeable.		

CACHE CONFIGURATION		
Size	**Bank 0**	**SL1**
256KB	None	256KB module installed
256KB	(2) 32K x 32	Not installed
512KB	(2) 32K x 32	256KB module installed
512KB	(2) 64K x 32	Not installed
512KB	None	512KB module installed

CPU SPEED SELECTION (AMD)						
CPU speed	**Clock speed**	**Multiplier**	**JP2**	**JP3**	**JP6**	**JP7**
75MHz	50MHz	1.5x	1 & 2	1 & 2	2 & 3	2 & 3
90MHz	60MHz	1.5x	1 & 2	1 & 2	1 & 2	2 & 3
100MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2	1 & 2
120MHz	60MHz	1.5x	1 & 2	1 & 2	1 & 2	2 & 3
133MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2	1 & 2
150MHz	60MHz	2x	1 & 2	2 & 3	1 & 2	2 & 3
166MHz	66MHz	2x	1 & 2	2 & 3	1 & 2	1 & 2
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (CYRIX)						
CPU speed	**Clock speed**	**Multiplier**	**JP2**	**JP3**	**JP6**	**JP7**
120MHz	50MHz	2x	1 & 2	2 & 3	2 & 3	2 & 3
133MHz	55MHz	2x	1 & 2	2 & 3	2 & 3	1 & 2
150MHz	60MHz	2x	1 & 2	2 & 3	1 & 2	2 & 3
166MHz	66MHz	2x	1 & 2	2 & 3	1 & 2	1 & 2
200MHz	50MHz	1.5x	1 & 2	1 & 2	2 & 3	2 & 3
Note: Pins designated should be in the closed position.						

Continued on next page. . .

VTECH INDUSTRIES, INC.
M B 5 2 0 N D

. . . continued from previous page

CPU SPEED SELECTION (INTEL)						
CPU speed	**Clock speed**	**Multiplier**	**JP2**	**JP3**	**JP6**	**JP7**
75MHz	50MHz	1.5x	1 & 2	1 & 2	2 & 3	2 & 3
90MHz	60MHz	1.5x	1 & 2	1 & 2	1 & 2	2 & 3
100MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2	1 & 2
120MHz	60MHz	2x	1 & 2	2 & 3	1 & 2	2 & 3
133MHz	66MHz	2x	1 & 2	2 & 3	1 & 2	1 & 2
150MHz	60MHz	2.5x	2 & 3	2 & 3	1 & 2	2 & 3
166MHz	66MHz	2.5x	2 & 3	2 & 3	1 & 2	1 & 2
180MHz	60MHz	3x	2 & 3	1 & 2	1 & 2	2 & 3
200MHz	66MHz	3x	2 & 3	1 & 2	1 & 2	1 & 2
Note: Pins designated should be in the closed position.						

CPU TYPE SELECTION				
Type	**J13**	**J14**	**J15**	**J16**
CX 6X86	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
AM K5 (B, C, F)	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
AM K5 (H, J, K)	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed
P54C	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
P55C	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed

CPU VOLTAGE SELECTION (SINGLE)		
Voltage	**JP5**	**JP17**
3.38v	Pins 7 & 8 closed	Pins 2 & 3 closed
3.52v	Pins 9 & 10 closed	Pins 1 & 2 closed

CPU VOLTAGE SELECTION (DUAL)			
Voltage	**V core**	**JP5**	**JP17**
3.38v	2.5v	Pins 1 & 2 closed	Pins 2 & 3 closed
3.38v	2.7v	Pins 3 & 4 closed	Pins 2 & 3 closed
3.38v	2.93v	Pins 5 & 6 closed	Pins 2 & 3 closed
3.52v	2.5v	Pins 1 & 2 closed	Pins 1 & 2 closed
3.52v	2.7v	Pins 3 & 4 closed	Pins 1 & 2 closed
3.52v	2.93v	Pins 5 & 6 closed	Pins 1 & 2 closed

-