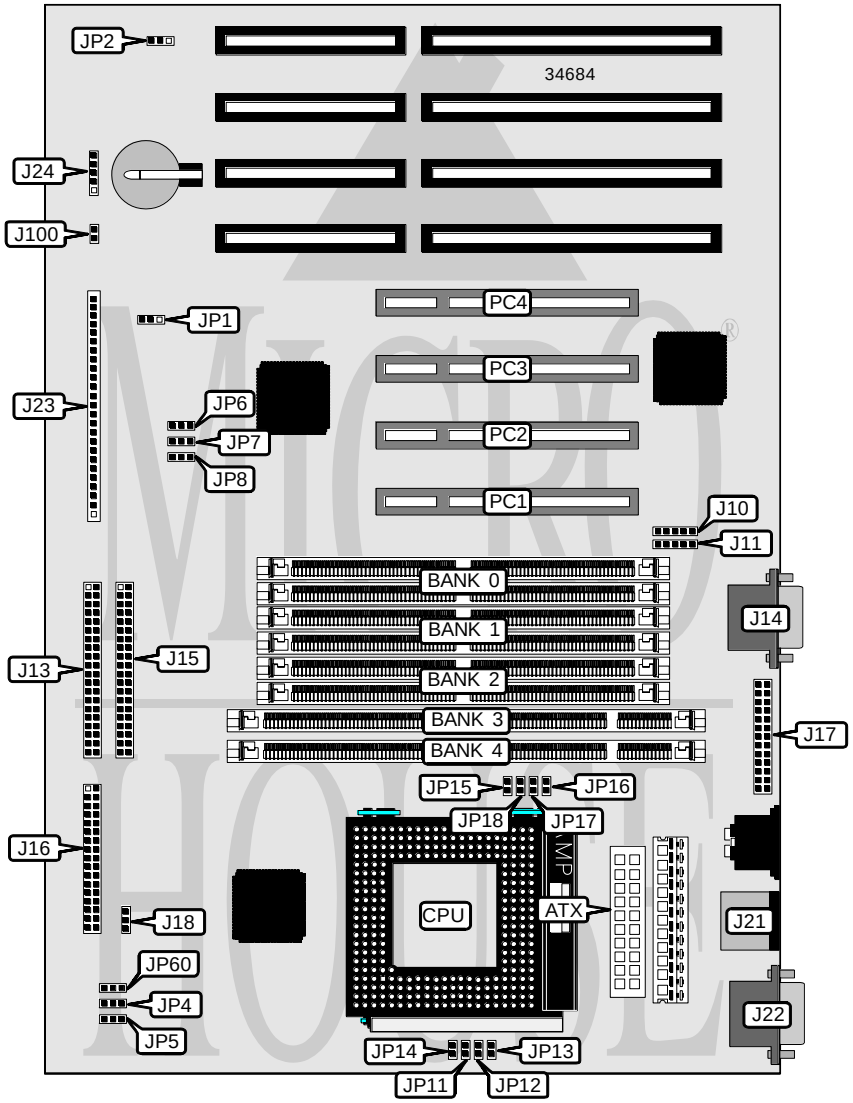
MICRONICS COMPUTERS, INC.
T W I S T E R

Processor	CX 6X86/AM K5/AM K6/Pentium
Processor Speed	75/90/100/120/133/150/166/180/200/233MHz
Chip Set	Intel
Video Chip Set	None
Maximum Onboard Memory	256MB (EDO supported)
Maximum Video Memory	None
Cache	256/512KB
BIOS	Award
Dimensions	305mm x 244mm
I/O Options	32-bit PCI slots (4), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, 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	Soft off power supply	J23/pins 1 & 2
USB connector 1	J10	Green PC connector	J23/pins 3 & 4
USB connector 2	J11	IR connector	J23/pins 6 - 11
IDE interface 2	J13	IDE interface LED	J23/pins 13 - 16
Serial port 2	J14	Power LED	J23/pins 18 - 20
IDE interface 1	J15	Reset switch	J23/pins 22 & 23
Floppy drive interface	J16	Speaker	J23/pins 24 - 27
Parallel port	J17	Power LED & keylock	J24
CPU fan power	J18	SCSI interface LED	J100
PS/2 mouse port	J21	32-bit PCI slots	PC1 – PC4
Serial port 1	J22		

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
í CMOS memory normal operation	JP1	Pins 1 & 2 closed
CMOS memory clear	JP1	Pins 2 & 3 closed
í Flash BIOS normal operation	JP2	Pins 2 & 3 closed
Flash BIOS reserved	JP2	Pins 1 & 2 closed

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

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SIMM CONFIGURATION (CON'T)			
Size	**Bank 0**	**Bank 1**	**Bank 2**
96MB	(2) 4M x 36	(2) 4M x 36	(2) 4M x 36
128MB	(2) 16M x 36	None	None
128MB	(2) 8M x 36	(2) 8M x 36	None
128MB	(2) 4M x 36	(2) 4M x 36	(2) 8M x 36
136MB	(2) 1M x 36	(2) 16M x 36	None
144MB	(2) 2M x 36	(2) 16M x 36	None
144MB	(2) 1M x 36	(2) 1M x 36	(2) 16M x 36
160MB	(2) 4M x 36	(2) 16M x 36	None
160MB	(2) 2M x 36	(2) 2M x 36	(2) 16M x 36
192MB	(2) 8M x 36	(2) 16M x 36	None
192MB	(2) 4M x 36	(2) 4M x 36	(2) 16M x 36
192MB	(2) 8M x 36	(2) 8M x 36	(2) 8M x 36
256MB	(2) 32M x 36	None	None
256MB	(2) 16M x 36	(2) 16M x 36	None
256MB	(2) 8M x 36	(2) 8M x 36	(2) 16M x 36
Note: Board accepts EDO memory.			

DIMM CONFIGURATION		
Size	**Bank 3**	**Bank 4**
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) 8M x 64	(1) 8M x 64
256MB	(1) 16M x 64	(1) 16M x 64

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DIMM/SIMM CONFIGURATION					
Size	**Bank 0**	**Bank 1**	**Bank 2**	**Bank 3**	**Bank 4**
16MB	(2) 1M x 36	None	None	(1) 1M x 64	None
24MB	(2) 1M x 36	None	None	(1) 2M x 64	None
24MB	(2) 1M x 36	None	None	(1) 1M x 64	(1) 1M x 64
24MB	(2) 1M x 36	(2) 1M x 36	None	None	(1) 1M x 64
32MB	(2) 1M x 36	None	None	(1) 1M x 64	(1) 2M x 64
32MB	(2) 2M x 36	None	None	(1) 2M x 64	None
32MB	(2) 2M x 36	None	None	(1) 1M x 64	(1) 1M x 64
32MB	(2) 1M x 36	(2) 1M x 36	None	None	(1) 2M x 64
40MB	(2) 1M x 36	None	None	(1) 4M x 64	None
40MB	(2) 1M x 36	None	None	(1) 2M x 64	(1) 2M x 64
40MB	(2) 2M x 36	None	None	(1) 1M x 64	(1) 2M x 64
40MB	(2) 2M x 36	(2) 2M x 36	None	None	(1) 1M x 64
48MB	(2) 1M x 36	None	None	(1) 1M x 64	(1) 4M x 64
48MB	(2) 2M x 36	None	None	(1) 4M x 64	None
48MB	(2) 2M x 36	None	None	(1) 2M x 64	(1) 2M x 64
48MB	(2) 4M x 36	None	None	(1) 1M x 64	(1) 1M x 64
48MB	(2) 1M x 36	(2) 1M x 36	None	None	(1) 4M x 64
48MB	(2) 2M x 36	(2) 2M x 36	None	None	(1) 2M x 64
56MB	(2) 1M x 36	None	None	(1) 2M x 64	(1) 4M x 64
56MB	(2) 2M x 36	None	None	(1) 1M x 64	(1) 4M x 64
56MB	(2) 4M x 36	None	None	(1) 1M x 64	(1) 2M x 64
64MB	(2) 2M x 36	None	None	(1) 2M x 64	(1) 4M x 64
64MB	(2) 4M x 36	None	None	(1) 4M x 64	None
64MB	(2) 4M x 36	None	None	(1) 2M x 64	(1) 2M x 64
64MB	(2) 2M x 36	(2) 2M x 36	None	None	(1) 4M x 64
72MB	(2) 1M x 36	None	None	(1) 8M x 64	None
72MB	(2) 1M x 36	None	None	(1) 4M x 64	(1) 4M x 64
72MB	(2) 4M x 36	None	None	(1) 1M x 64	(1) 4M x 64
72MB	(2) 4M x 36	(2) 4M x 36	None	None	(1) 1M x 64
80MB	(2) 1M x 36	None	None	(1) 1M x 64	(1) 8M x 64
80MB	(2) 2M x 36	None	None	(1) 8M x 64	None
80MB	(2) 2M x 36	None	None	(1) 4M x 64	(1) 4M x 64
80MB	(2) 4M x 36	None	None	(1) 2M x 64	(1) 4M x 64
80MB	(2) 8M x 36	None	None	(1) 1M x 64	(1) 1M x 64
80MB	(2) 4M x 36	(2) 4M x 36	None	None	(1) 2M x 64
88MB	(2) 1M x 36	None	None	(1) 2M x 64	(1) 8M x 64
88MB	(2) 2M x 36	None	None	(1) 1M x 64	(1) 8M x 64
88MB	(2) 8M x 36	None	None	(1) 1M x 64	(1) 2M x 64
96MB	(2) 4M x 36	None	None	(1) 8M x 64	None
96MB	(2) 4M x 36	None	None	(1) 4M x 64	(1) 4M x 64
96MB	(2) 8M x 36	None	None	(1) 2M x 64	(1) 2M x 64
96MB	(2) 4M x 36	(2) 4M x 36	None	None	(1) 4M x 64

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DIMM/SIMM CONFIGURATION (CON'T)					
Size	**Bank 0**	**Bank 1**	**Bank 2**	**Bank 3**	**Bank 4**
104MB	(2) 1M x 36	None	None	(1) 4M x 64	(1) 8M x 64
104MB	(2) 4M x 36	None	None	(1) 1M x 64	(1) 8M x 64
104MB	(2) 8M x 36	None	None	(1) 1M x 64	(1) 4M x 64
112MB	(2) 2M x 36	None	None	(1) 4M x 64	(1) 8M x 64
112MB	(2) 4M x 36	None	None	(1) 2M x 64	(1) 8M x 64
112MB	(2) 8M x 36	None	None	(1) 2M x 64	(1) 4M x 64
128MB	(2) 4M x 36	None	None	(1) 4M x 64	(1) 8M x 64
128MB	(2) 8M x 36	None	None	(1) 8M x 64	None
128MB	(2) 8M x 36	None	None	(1) 4M x 64	(1) 4M x 64
136MB	(2) 1M x 36	None	None	(1) 8M x 64	(1) 8M x 64
136MB	(2) 8M x 36	None	None	(1) 1M x 64	(1) 8M x 64
136MB	(2) 16M x 36	None	None	(1) 1M x 64	None
136MB	(2) 8M x 36	(2) 8M x 36	None	None	(1) 1M x 64
144MB	(2) 2M x 36	None	None	(1) 8M x 64	(1) 8M x 64
144MB	(2) 8M x 36	None	None	(1) 2M x 64	(1) 8M x 64
144MB	(2) 16M x 36	None	None	(1) 2M x 64	None
144MB	(2) 16M x 36	None	None	(1) 1M x 64	(1) 1M x 64
144MB	(2) 1M x 36	(2) 1M x 36	None	None	(1) 16M x 64
144MB	(2) 8M x 36	(2) 8M x 36	None	None	(1) 2M x 64
160MB	(2) 4M x 36	None	None	(1) 8M x 64	(1) 8M x 64
160MB	(2) 8M x 36	None	None	(1) 4M x 64	(1) 8M x 64
160MB	(2) 16M x 36	None	None	(1) 4M x 64	None
160MB	(2) 16M x 36	None	None	(1) 2M x 64	(1) 2M x 64
160MB	(2) 2M x 36	(2) 2M x 36	None	None	(1) 16M x 64
160MB	(2) 8M x 36	(2) 8M x 36	None	None	(1) 4M x 64
168MB	(2) 16M x 36	None	None	(1) 1M x 64	(1) 4M x 64
176MB	(2) 16M x 36	None	None	(1) 2M x 64	(1) 4M x 64
192MB	(2) 8M x 36	None	None	(1) 8M x 64	(1) 8M x 64
192MB	(2) 16M x 36	None	None	(1) 8M x 64	None
192MB	(2) 16M x 36	None	None	(1) 4M x 64	(1) 4M x 64
192MB	(2) 4M x 36	(2) 4M x 36	None	None	(1) 16M x 64
200MB	(2) 16M x 36	None	None	(1) 1M x 64	(1) 8M x 64
208MB	(2) 16M x 36	None	None	(1) 2M x 64	(1) 8M x 64
256MB	(2) 16M x 36	None	None	(1) 8M x 64	(1) 8M x 64
256MB	(2) 8M x 36	(2) 8M x 36	None	None	(1) 16M x 64

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CACHE CONFIGURATION	
Size	**Bank 0**
256KB	(2) 32K x 32
512KB	(2) 64K x 32
Note: The location of bank 0 is unidentified.	

CPU SPEED SELECTION (CYRIX)								
CPU speed	**Clock speed**	**Multiplier**	**JP4**	**JP5**	**JP6**	**JP7**	**JP8**	**JP60**
150MHz	60MHz	2x	1 & 2	2 & 3	2 & 3	2 & 3	1 & 2	Open
166MHz	66MHz	2x	1 & 2	2 & 3	2 & 3	1 & 2	2 & 3	Open
Note: Pins designated should be in the closed position.								

CPU SPEED SELECTION (AM K5)								
CPU speed	**Clock speed**	**Multiplier**	**JP4**	**JP5**	**JP6**	**JP7**	**JP8**	**JP60**
75MHz	50MHz	1.5x	1 & 2	1 & 2	2 & 3	2 & 3	2 & 3	Open
90MHz	60MHz	1.5x	1 & 2	1 & 2	2 & 3	2 & 3	1 & 2	Open
100MHz	66MHz	1.5x	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3	Open
120MHz	60MHz	1.5x	1 & 2	1 & 2	2 & 3	2 & 3	1 & 2	Open
133MHz	66MHz	2x	1 & 2	2 & 3	2 & 3	1 & 2	2 & 3	Open
166MHz	66MHz	2.5x	2 & 3	2 & 3	2 & 3	1 & 2	2 & 3	Open
Note: Pins designated should be in the closed position.								

CPU SPEED SELECTION (AM K6)								
CPU speed	**Clock speed**	**Multiplier**	**JP4**	**JP5**	**JP6**	**JP7**	**JP8**	**JP60**
166MHz	66MHz	2.5x	2 & 3	2 & 3	2 & 3	1 & 2	2 & 3	Open
200MHz	66MHz	3x	2 & 3	1 & 2	2 & 3	1 & 2	2 & 3	Open
233MHz	66MHz	3.5x	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2
Note: Pins designated should be in the closed position.								

CPU SPEED SELECTION (INTEL)								
CPU speed	**Clock speed**	**Multiplier**	**JP4**	**JP5**	**JP6**	**JP7**	**JP8**	**JP60**
75MHz	50MHz	1.5x	1 & 2	1 & 2	2 & 3	2 & 3	2 & 3	Open
90MHz	60MHz	1.5x	1 & 2	1 & 2	2 & 3	2 & 3	1 & 2	Open
100MHz	66MHz	1.5x	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3	Open
120MHz	60MHz	2x	1 & 2	2 & 3	2 & 3	2 & 3	1 & 2	Open
133MHz	66MHz	2x	1 & 2	2 & 3	2 & 3	1 & 2	2 & 3	Open
150MHz	60MHz	2.5x	2 & 3	2 & 3	2 & 3	2 & 3	1 & 2	Open
166MHz	66MHz	2.5x	2 & 3	2 & 3	2 & 3	1 & 2	2 & 3	Open
180MHz	60MHz	3x	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2	Open
200MHz	66MHz	3x	2 & 3	1 & 2	2 & 3	1 & 2	2 & 3	Open
233MHz	66MHz	3.5x	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3	Open
Note: Pins designated should be in the closed position.								

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CPU TYPE SELECTION								
Type	**JP11**	**JP12**	**JP13**	**JP14**	**JP15**	**JP16**	**JP17**	**JP18**
CX 6X86	Open	Closed	Open	Open	Open	Open	Closed	Open
CX 6X86L	Open	Open	Open	Closed	Open	Open	Closed	Open
P54C/CS/CTB	Open	Closed	Open	Open	Open	Open	Closed	Open
AM K5	Open	Open	Closed	Open	Open	Open	Closed	Open
AM K6-166/200	Open	Open	Open	Closed	Open	Open	Closed	Open
AM K6-233	Closed	Open	Open	Open	Open	Open	Closed	Open
P55C	Open	Open	Open	Closed	Open	Open	Closed	Open