VEXTREC TECHNOLOGY INC.

GMB-P54SPV (VER. 2.03)

Device Type	Mainboard
Processor	CX 6X86/AM K5/Pentium
Processor Speed	75/80/90/100/120/133/150/166MHz
Chip Set	SIS
Video Chip Set	SIS
Maximum Onboard Memory	512MB (EDO supported)
Maximum Video Memory	Unidentified
Cache	256/512/1024KB
BIOS	Award, AMI
Dimensions	220mm x 330mm
I/O Options	32-bit PCI slots (3), floppy drive interface, Green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), VGA feature connector, VGA port
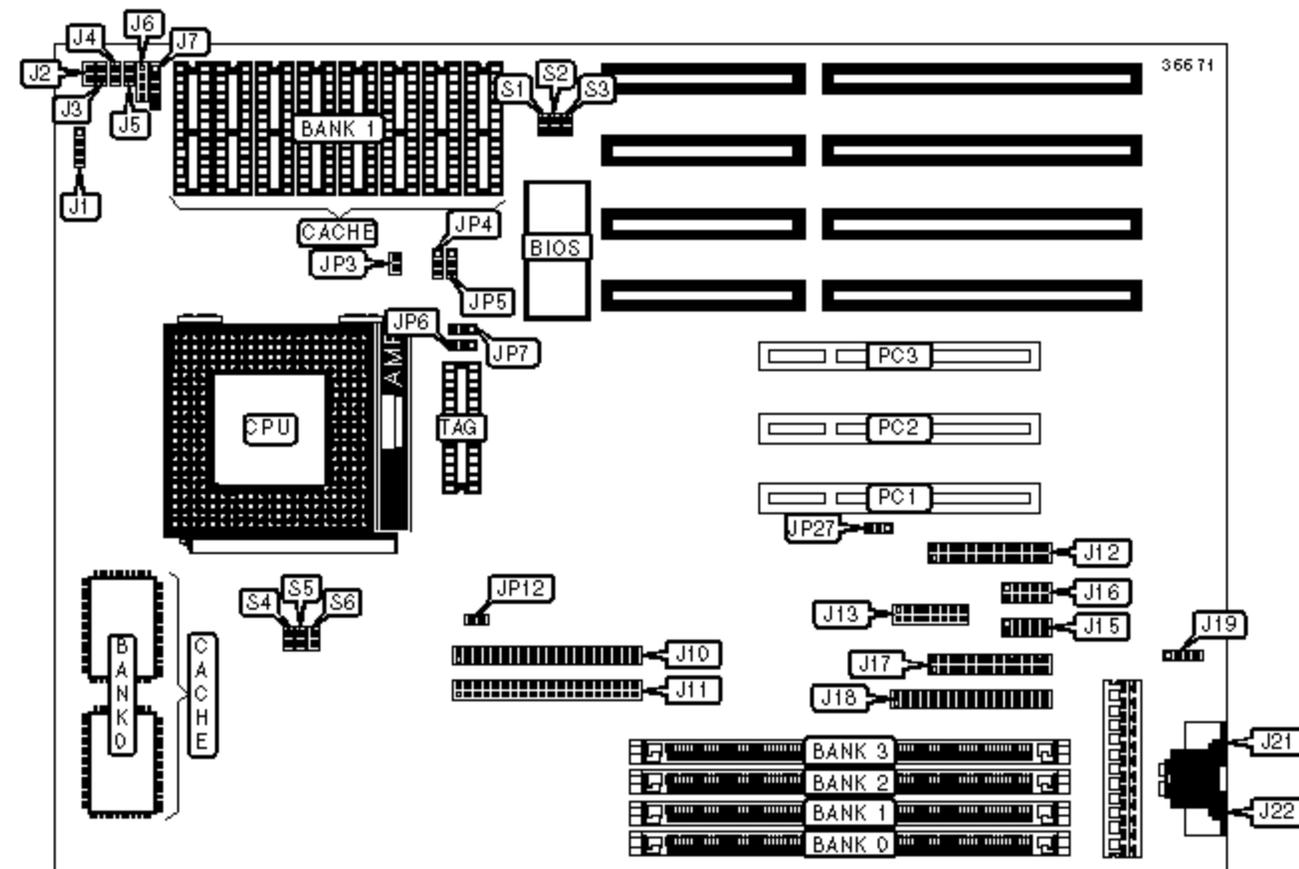
CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
CPU fan power	J1	VGA interface	J13
Reset switch	J2	Serial port 1	J15
Unidentified	J3	Serial port 2	J16
Turbo LED	J4	Parallel port	J17
IDE interface LED	J5	Floppy drive interface	J18

PC speaker	J6	External battery connector	J19
Keylock connector	J7	PS/2 mouse port	J21
IDE interface 1	J10	PS/2 keyboard port	J22
IDE interface 2	J11	Green PC switch	JP12
VGA feature connector	J12	32-bit PCI slots	PC1 - PC3

USER CONFIGURABLE SETTINGS			
	Function	Label	Position
»	CMOS memory normal operation	JP27	Pins 1 & 2 closed
	CMOS memory clear	JP27	Pins 2 & 3 closed

SIMM CONFIGURATION				
Size	Bank 0	Bank 1	Bank 2	Bank 3
1MB	(1) 256K x 36	None	None	None
2MB	(1) 512K x 36	None	None	None
2MB	(1) 256K x 36	(1) 256K x 36	None	None
3MB	(1) 512K x 36	(1) 256K x 36	None	None
4MB	(1) 1M x 36	None	None	None
5MB	(1) 1M x 36	(1) 256K x 36	None	None
6MB	(1) 1M x 36	(1) 512K x 36	None	None
7MB	(1) 1M x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
8MB	(1) 2M x 36	None	None	None
8MB	(1) 1M x 36	(1) 512K x 36	(1) 512K x 36	None
9MB	(1) 2M x 36	(1) 256K x 36	None	None
10MB	(1) 2M x 36	(1) 256K x 36	(1) 256K x 36	None
11MB	(1) 2M x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
12MB	(1) 2M x 36	(1) 512K x 36	(1) 512K x 36	None

12MB	(1) 2M x 36	(1) 1M x 36	None	None
13MB	(1) 256K x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
14MB	(1) 2M x 36	(1) 512K x 36	(1) 512K x 36	(1) 512K x 36
16MB	(1) 4M x 36	None	None	None
16MB	(1) 2M x 36	(1) 2M x 36	None	None
17MB	(1) 4M x 36	(1) 256K x 36	None	None
18MB	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36	None
19MB	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
20MB	(1) 4M x 36	(1) 1M x 36	None	None
22MB	(1) 4M x 36	(1) 512K x 36	(1) 512K x 36	(1) 512K x 36
24MB	(1) 4M x 36	(1) 2M x 36	None	None
25MB	(1) 256K x 36	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36
26MB	(1) 512K x 36	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36
28MB	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
32MB	(1) 8M x 36	None	None	None
32MB	(1) 4M x 36	(1) 2M x 36	(1) 2M x 36	None
33MB	(1) 8M x 36	(1) 256K x 36	None	None
34MB	(1) 8M x 36	(1) 512K x 36	None	None
35MB	(1) 8M x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
36MB	(1) 8M x 36	(1) 1M x 36	None	None
38MB	(1) 8M x 36	(1) 512K x 36	(1) 512K x 36	(1) 512K x 36
40MB	(1) 8M x 36	(1) 1M x 36	(1) 1M x 36	None
40MB	(1) 8M x 36	(1) 2M x 36	None	None
44MB	(1) 8M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
48MB	(1) 8M x 36	(1) 2M x 36	(1) 2M x 36	None
48MB	(1) 8M x 36	(1) 4M x 36	None	None
49MB	(1) 256K x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
50MB	(1) 512K x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
52MB	(1) 1M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36

56MB	(1) 8M x 36	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36
64MB	(1) 8M x 36	(1) 4M x 36	(1) 4M x 36	None
64MB	(1) 8M x 36	(1) 8M x 36	None	None
65MB	(1) 256K x 36	(1) 8M x 36	(1) 8M x 36	None
66MB	(1) 512K x 36	(1) 8M x 36	(1) 8M x 36	None
68MB	(1) 1M x 36	(1) 8M x 36	(1) 8M x 36	None
72MB	(1) 2M x 36	(1) 8M x 36	(1) 8M x 36	None
80MB	(1) 8M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
96MB	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36	None
97MB	(1) 256K x 36	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36
98MB	(1) 512K x 36	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36
100MB	(1) 1M x 36	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36
104MB	(1) 2M x 36	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36
112MB	(1) 4M x 36	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36
128MB	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36

CACHE CONFIGURATION			
Size	Bank 0	Bank 1	TAG
256KB	None	(8) 32K x 8	(1) 8K/16K x 8
256KB - Pipe Burst Mode	(2) 32K x 32/36	None	(1) 8K/16K x 8
512KB	None	(8) 64K x 8	(1) 16K/32K x 8
1024KB	None	(8) 128K x 8	(1) 32K x 8

CACHE SIZE SELECTION		
Size	JP6	JP7
256KB	Pins 1 & 2 closed	Pins 1 & 2 closed
512KB	Pins 2 & 3 closed	Pins 1 & 2 closed

1024KB	Pins 2 & 3 closed	Pins 2 & 3 closed			

CPU SPEED SELECTION (PENTIUM)					
Speed	**S1**	**S2**	**S3**	**JP4**	**JP5**
75MHz	Closed	Closed	Open	1 & 2	1 & 2
90MHz	Closed	Open	Closed	1 & 2	1 & 2
100MHz	Closed	Closed	Closed	1 & 2	1 & 2
120MHz	Closed	Open	Closed	1 & 2	2 & 3
133MHz	Closed	Closed	Closed	1 & 2	2 & 3
150MHz	Closed	Open	Closed	2 & 3	2 & 3
166MHz	Closed	Closed	Closed	2 & 3	2 & 3

Note: Setting are used with clock generator model MX8325 installed.
Note: Designated pins should be in the closed position.

ALTERNATE CPU SPEED SELECTION (PENTIUM)					
Speed	**S1**	**S2**	**S3**	**JP4**	**JP5**
75MHz	Open	Open	Closed	1 & 2	1 & 2
90MHz	Open	Closed	Open	1 & 2	1 & 2
100MHz	Closed	Open	Closed	1 & 2	1 & 2
120MHz	Open	Closed	Open	1 & 2	2 & 3
133MHz	Closed	Open	Closed	1 & 2	2 & 3
150MHz	Open	Closed	Open	2 & 3	2 & 3
166MHz	Closed	Open	Closed	2 & 3	2 & 3

Note: Setting are used with clock generator model MX8318-01, CMA8818 or CMA8819 installed.
Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (CX 6X86)					
Speed	**S1**	**S2**	**S3**	**JP4**	**JP5**
80MHz	Open	Closed	Open	1 & 2	2 & 3

100MHz	Closed	Closed	Open	1 & 2	2 & 3
150MHz	Closed	Open	Closed	1 & 2	2 & 3
166MHz	Closed	Closed	Closed	1 & 2	2 & 3

Note: Setting are used with clock generator model MX8325 installed.
Note: Designated pins should be in the closed position.

ALTERNATE CPU SPEED SELECTION (CX 6X86)					
Speed	**S1**	**S2**	**S3**	**JP4**	**JP5**
80MHz	Closed	Closed	Open	1 & 2	2 & 3
100MHz	Open	Open	Closed	1 & 2	2 & 3
150MHz	Open	Closed	Open	1 & 2	2 & 3
166MHz	Closed	Open	Closed	1 & 2	2 & 3

Note: Setting are used with clock generator model MX8318-01, CMA8818 or CMA8819 installed.
Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (AM K5)					
Speed	**S1**	**S2**	**S3**	**JP4**	**JP5**
75MHz*	Closed	Closed	Open	1 & 2	1 & 2
75MHz~	Closed	Closed	Closed	1 & 2	2 & 3
90MHz	Closed	Open	Closed	1 & 2	1 & 2
100MHz	Closed	Closed	Closed	1 & 2	1 & 2
120MHz	Closed	Open	Closed	1 & 2	2 & 3
133MHz	Closed	Closed	Closed	1 & 2	1 & 2
150MHz	Closed	Open	Closed	1 & 2	2 & 3
166MHz	Closed	Closed	Closed	1 & 2	2 & 3

Note: Setting are used with clock generator model MX8325 installed.
Note: Designated pins should be in the closed position.
*Note: (AMD-SSA/5-75)
~Note: (AMD-SSA/5-66)

ALTERNATE CPU SPEED SELECTION (AM K5)					
Speed	S1	S2	S3	JP4	JP5
75MHz^	Closed	Open	Closed	1 & 2	2 & 3
75MHz*	Open	Open	Closed	1 & 2	1 & 2
90MHz	Open	Closed	Open	1 & 2	1 & 2
100MHz~	Open	Open	Closed	1 & 2	1 & 2
100MHz#	Closed	Open	Closed	1 & 2	1 & 2
120MHz	Open	Closed	Open	1 & 2	1 & 2
133MHz	Closed	Open	Closed	1 & 2	1 & 2
150MHz	Open	Closed	Open	1 & 2	2 & 3
166MHz	Closed	Open	Closed	1 & 2	2 & 3

Note: Setting are used with clock generator model MX8318-01, CMA8818 or CMA8819 installed.
Note: Designated pins should be in the closed position.
*Note: (AMD-SSA/5-75)
#Note: (AMD-SSA/5-100)
~Note: (AMD-K5-75)
^Note: (AMD-SSA/5-66)

CPU VOLTAGE SELECTION (SINGLE)				
Voltage	JP3	S4	S5	S6
3.4V	Closed	Open	Open	Open
3.5V	Open	Open	Open	Open

Note: When power transistor is installed, S4, S5 & S6 are used.

CPU VOLTAGE SELECTION (DUAL)					
Voltage	Vcore	JP3	S4	S5	S6
3.3V	2.5V	Closed	Closed	Closed	Closed