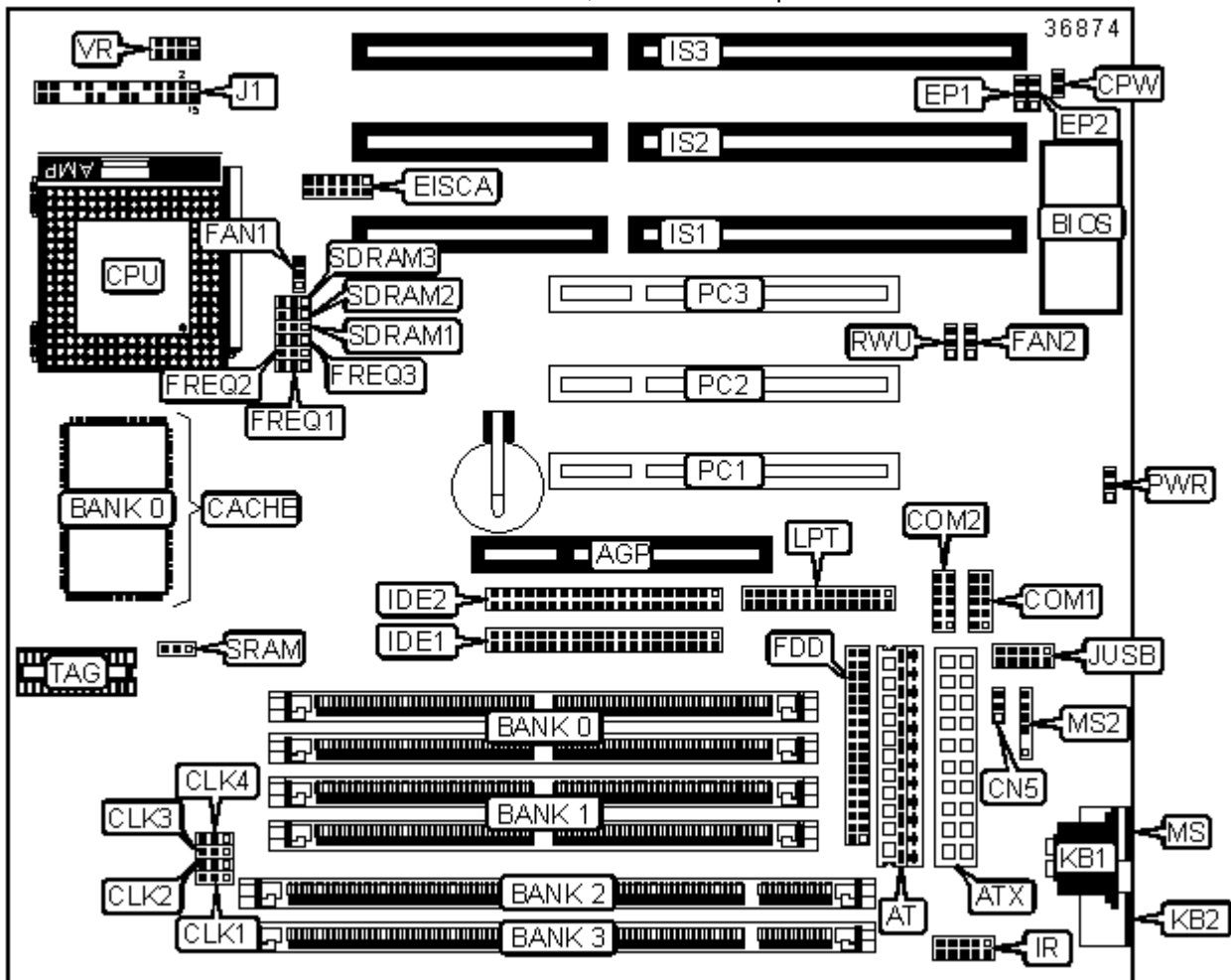


# SEH COMPUTER SYSTEME

VA-503+

<b>Device Type</b>	Mainboard
<b>Processor</b>	CX 6X86L/IBM 6X86L/CX 6X86MX/IBM 6X86MX/CX MIII/AM K6/AM K6-2/Pentium MMX
<b>Processor Speed</b>	166/200/225/233/250/263/266/291/300/333/350/366/400MHz
<b>Chip Set</b>	VIA
<b>Maximum Onboard Memory</b>	512MB (EDO & SDRAM supported)
<b>Cache</b>	512/1024KB
<b>BIOS</b>	Award
<b>Dimensions</b>	Unidentified
<b>I/O Options</b>	32-bit PCI slots (3), 16-bit ISA slots (3), floppy drive interface, green PC connector, IDE interfaces (2), AT Keyboard port, parallel interface, PS/2 keyboard port, PS/2 mouse port, PS/2 mouse interface, serial interfaces (2), IR connector, USB interface, AT power connector, ATX power connector, AGP slot, remote wake-up connector



## CONNECTIONS

Purpose	Location	Purpose	Location
AGP slot	AGP	Turbo LED	J1/Pins 7 & 8

AT power connector	AT	Green PC connector	J1/Pins 10 & 11
ATX power connector	ATX	Green PC LED	J1/Pins 13 & 14
Remote power connector	CN5	Speaker	J1/Pins 15 & 18
Serial interface 1	COM1	IDE interface LED	J1/Pins 20 & 21
Serial interface 2	COM2	Remote power switch	J1/Pins 23 & 24
CPU thermal sensor	EISCA	Reset switch	J1/Pins 27 & 28
Chassis fan power	FAN1	USB interface	JUSB
CPU fan power	FAN2	AT keyboard port	KB1
Floppy drive interface	FDD	PS/2 keyboard port	KB2
IDE interface 1	IDE1	Parallel interface	LPT
IDE interface 2	IDE2	PS/2 mouse port	MS
IR connector	IR	PS/2 mouse interface	MS2
16-bit ISA slots	IS1 - IS3	32-bit PCI slots	PC1 - PC3
Power LED & keylock	J1/Pins 1 - 5	Remote wake-up connector	RWU

#### USER CONFIGURABLE SETTINGS

Function		Label	Position
»	Password disabled	CPW	Open
	Password enabled	CPW	Closed
»	AT power supply selected	PWR	Pins 1 & 2 closed
	ATX power supply selected	PWR	Pins 2 & 3 closed
»	SRAM Intel burst mode selected	SRAM	Pins 1 & 2 closed
	SRAM Linear burst mode selected	SRAM	Pins 2 & 3 closed

#### SIMM 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
128MB	(2) 16M x 36	None
136MB	(2) 16M x 36	(2) 1M x 36
144MB	(2) 16M x 36	(2) 2M x 36
160MB	(2) 16M x 36	(2) 4M x 36
192MB	(2) 16M x 36	(2) 8M x 36
256MB	(2) 16M x 36	(2) 16M x 36
256MB	(2) 32M x 36	None
264MB	(2) 32M x 36	(2) 1M x 36
272MB	(2) 32M x 36	(2) 2M x 36
288MB	(2) 32M x 36	(2) 4M x 36
320MB	(2) 32M x 36	(2) 8M x 36
384MB	(2) 32M x 36	(2) 16M x 36
512MB	(2) 32M x 36	(2) 32M x 36

Note: Board accepts EDO & SDRAM memory.

Note: Bank 0 and bank 2 can not installed at the same time. It is not recommended to mix SIMM and DIMM memory.

#### DIMM CONFIGURATION

Size	Bank 0	Bank 1
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8MB	(1) 1M x 64	None
16MB	(1) 1M x 64	(1) 1M x 64
16MB	(1) 2M x 64	None
24MB	(1) 2M x 64	(1) 1M x 64
32MB	(1) 2M x 64	(1) 2M x 64
32MB	(1) 4M x 64	None
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
64MB	(1) 8M x 64	None
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
128MB	(1) 16M x 64	None
136MB	(1) 16M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 2M x 64
160MB	(1) 16M x 64	(1) 4M x 64
192MB	(1) 16M x 64	(1) 8M x 64
256MB	(1) 16M x 64	(1) 16M x 64
256MB	(1) 32M x 64	None
264MB	(1) 32M x 64	(1) 1M x 64
272MB	(1) 32M x 64	(1) 2M x 64
288MB	(1) 32M x 64	(1) 4M x 64
320MB	(1) 32M x 64	(1) 8M x 64
384MB	(1) 32M x 64	(1) 16M x 64
512MB	(1) 32M x 64	(1) 32M x 64

Note: Board supports EDO & SDRAM memory.

Note: Bank 0 and bank 2 can not installed at the same time. It is not recommended to mix SIMM and DIMM memory.

### CACHE CONFIGURATION

Size	Bank 0	TAG
512KB	(1) 64K x 64	(1) 16K x 8
1MB	(2) 64K x 64	(1) 32K x 8

### CPU/DIMM SPEED SELECTION

Clock Speed	DIMM Type	CLK4	SDRAM1	SDRAM2	SDRAM3
66MHz	PC-100	1 & 2	2 & 3	2 & 3	2 & 3
66MHz	Non PC-100	2 & 3	1 & 2	2 & 3	2 & 3
75MHz	PC-100	1 & 2	2 & 3	2 & 3	2 & 3
75MHz	Non PC-100	2 & 3	1 & 2	2 & 3	2 & 3
83MHz	PC-100	1 & 2	2 & 3	1 & 2	2 & 3
83MHz	Non PC-100	2 & 3	1 & 2	1 & 2	2 & 3
95MHz	PC-100	1 & 2	2 & 3	1 & 2	2 & 3
95MHz	Non PC-100	2 & 3	1 & 2	1 & 2	2 & 3
100MHz	PC-100	1 & 2	2 & 3	1 & 2	2 & 3
100MHz	Non PC-100	2 & 3	1 & 2	1 & 2	2 & 3
112MHz	Non PC-100	2 & 3	1 & 2	1 & 2	2 & 3
124MHz	Non PC-100	2 & 3	1 & 2	1 & 2	2 & 3

Note: Pins designated should be in the closed position

### CPU SPEED SELECTION (CX 6X86L)

CPU speed	Clock speed	Multiplier	CLK1	CLK2	CLK3	FREQ1	FREQ2	FREQ3
166MHz	66MHz	2x	1 & 2	1 & 2	1 & 2	2 & 3	1 & 2	1 & 2
200MHz	75MHz	2x	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

### CPU SPEED SELECTION (CX 6X86MX)

CPU speed	Clock speed	Multiplier	CLK1	CLK2	CLK3	FREQ1	FREQ2	FREQ3
166MHz	66MHz	2x	1 & 2	1 & 2	1 & 2	2 & 3	1 & 2	1 & 2
200MHz	66MHz	2.5x	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3	1 & 2
200MHz	75MHz	2x	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2	1 & 2
233MHz	75MHz	2.5x	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2
233MHz	83MHz	2x	2 & 3	2 & 3	1 & 2	2 & 3	1 & 2	1 & 2
266MHz	83MHz	2.5x	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2

Note: Pins designated should be in the closed position.

#### CPU SPEED SELECTION (CX MII)

CPU speed	Clock speed	Multiplier	CLK1	CLK2	CLK3	FREQ1	FREQ2	FREQ3
300MHz	75MHz	3x	1 & 2	2 & 3	1 & 2	1 & 2	2 & 3	1 & 2
300MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2
333MHz	83MHz	3x	2 & 3	2 & 3	1 & 2	1 & 2	2 & 3	1 & 2
333MHz	100MHz	2.5x	1 & 2	1 & 2	2 & 3	2 & 3	2 & 3	1 & 2
333MHz	75MHz	3.5x	1 & 2	2 & 3	1 & 2	1 & 2	1 & 2	1 & 2
333MHz	66MHz	4x	1 & 2	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3
350MHz	83MHz	3.5x	2 & 3	2 & 3	1 & 2	1 & 2	1 & 2	1 & 2
350MHz	75MHz	4x	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2	2 & 3
350MHz	100MHz	3x	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2

Note: Pins designated should be in the closed position.

#### CPU SPEED SELECTION (IBM 6X86L)

CPU speed	Clock speed	Multiplier	CLK1	CLK2	CLK3	FREQ1	FREQ2	FREQ3
166MHz	66MHz	2x	1 & 2	1 & 2	1 & 2	2 & 3	1 & 2	1 & 2
200MHz	75MHz	2x	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

**CPU SPEED SELECTION (IBM 6X86MX)**

CPU speed	Clock speed	Multiplier	CLK1	CLK2	CLK3	FREQ1	FREQ2	FREQ3
166MHz	66MHz	2x	1 & 2	1 & 2	1 & 2	2 & 3	1 & 2	1 & 2
200MHz	66MHz	2.5x	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3	1 & 2
200MHz	75MHz	2x	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2	1 & 2
233MHz	75MHz	2.5x	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2
233MHz	83MHz	2x	2 & 3	2 & 3	1 & 2	2 & 3	1 & 2	1 & 2
266MHz	83MHz	2.5x	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2

Note: Pins designated should be in the closed position.

**CPU SPEED SELECTION (AM K6)**

CPU speed	Clock speed	Multiplier	CLK1	CLK2	CLK3	FREQ1	FREQ2	FREQ3
166MHz	66MHz	2.5x	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3	1 & 2
200MHz	66MHz	3x	1 & 2	1 & 2	1 & 2	1 & 2	2 & 3	1 & 2
233MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2
266MHz	66MHz	4x	1 & 2	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3
300MHz	66MHz	4.5x	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

**CPU SPEED SELECTION (AM K6-2)**

CPU speed	Clock speed	Multiplier	CLK1	CLK2	CLK3	FREQ1	FREQ2	FREQ3
300MHz	66MHz	4.5x	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3	2 & 3
300MHz	100MHz	3x	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2
333MHz	95MHz	3.5x	2 & 3	1 & 2	2 & 3	1 & 2	1 & 2	1 & 2
350MHz	100MHz	3.5x	1 & 2	1 & 2	2 & 3	1 & 2	1 & 2	1 & 2
366MHz	66MHz	5.5x	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	2 & 3
400MHz	100MHz	4x	1 & 2	1 & 2	2 & 3	2 & 3	1 & 2	2 & 3

Note: Pins designated should be in the closed position.

### CPU SPEED SELECTION (PENTIUM MMX)

CPU speed	Clock speed	Multiplier	CLK1	CLK2	CLK3	FREQ1	FREQ2	FREQ3
166MHz	66MHz	2.5x	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3	1 & 2
200MHz	66MHz	3x	1 & 2	1 & 2	1 & 2	1 & 2	2 & 3	1 & 2
233MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

### CPU VOLTAGE SELECTION

Voltage	VR/Pins 1 & 2	VR/Pins 3 & 4	VR/Pins 5 & 6	VR/Pins 7 & 8
2.0V	Open	Open	Open	Open
2.1V	Open	Open	Open	Closed
2.2V	Open	Open	Closed	Open
2.3V	Open	Open	Closed	Closed
2.4V	Open	Closed	Open	Open
2.5V	Open	Closed	Open	Closed
2.6V	Open	Closed	Closed	Open
2.7V	Open	Closed	Closed	Closed
2.8V	Closed	Open	Open	Open
2.9V	Closed	Open	Open	Closed
3.0V	Closed	Open	Closed	Open
3.1V	Closed	Open	Closed	Closed
3.2V	Closed	Closed	Open	Open

### FLASH ROM TYPE SELECTION

Size	Type	EP1	EP2
1MB	Intel 28F001	Pins 2 & 3 closed	Pins 1 & 2 closed
	MXIC 2841000	Pins 2 & 3 closed	Pins 1 & 2 closed



	SST 29EE010	Pins 1 & 2 closed	Pins 1 & 2 closed
	ATMEL AT29C010	Pins 1 & 2 closed	Pins 1 & 2 closed
2MB	Winbond 29C020	Pins 1 & 2 closed	Pins 2 & 3 closed
	SST 29EE020	Pins 1 & 2 closed	Pins 2 & 3 closed
	ATMEL AM29F002T	Pins 1 & 2 closed	Pins 2 & 3 closed