SHUTTLE COMPUTER INTERNATIONAL, INC.

HOT-597

Device Type	Mainboard
Processor	CX 6X86/IBM 6X86/CX 6X86L/IBM 6X86L/CX 686MX/IBM 6X86MX/
	CX MII/AM K5/AM K6/AM K6-2/Pentium/Pentium MMX
Processor Speed	100/120/133/150/166/180/200/233/266/300/333/350/380/366/400/450MHz
Chip Set	VIA MVP3
Maximum Onboard Memory	384MB (EDO & SDRAM supported)
Cache	512/1024KB
BIOS	Award
Dimensions	305mm x 190mm
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, AGP slot, wake on LAN connector
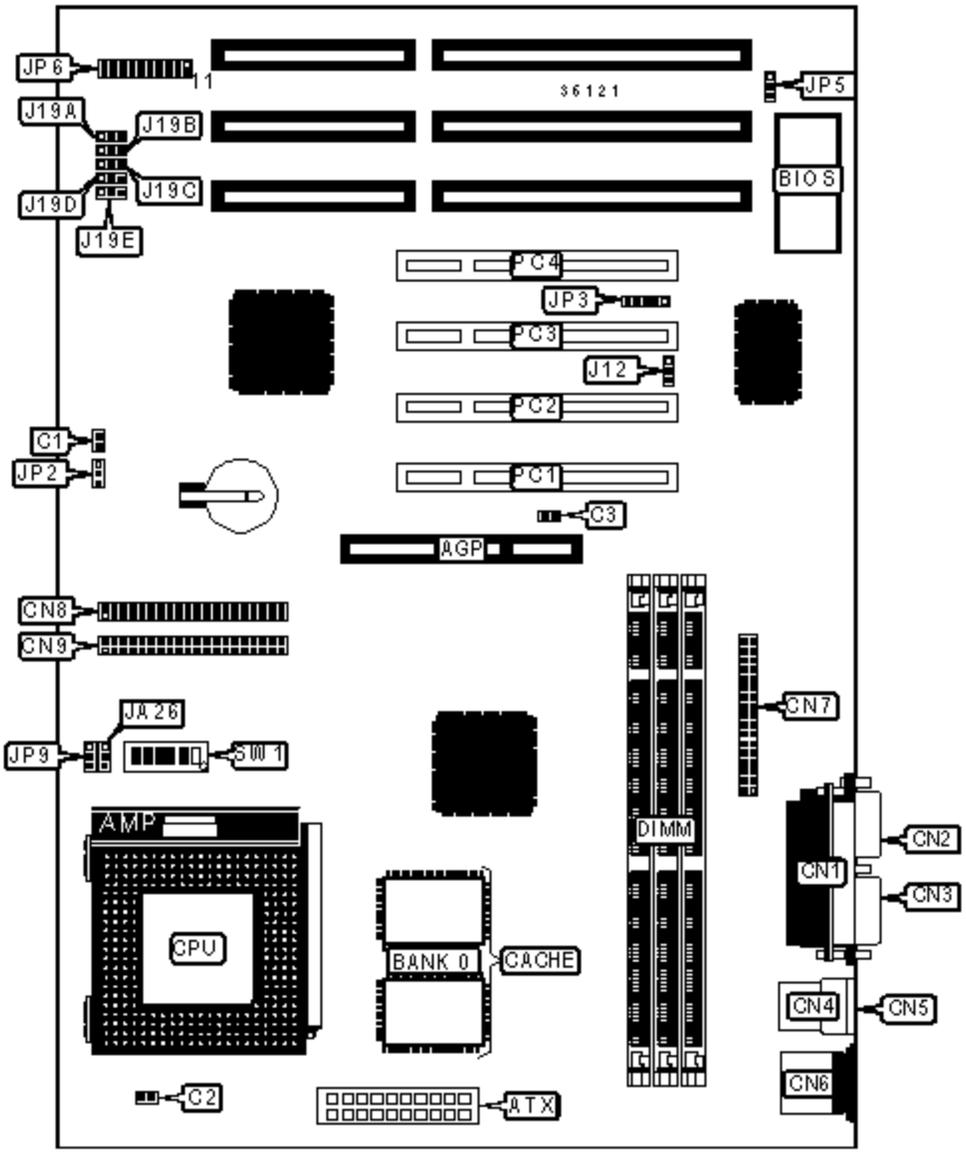
CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
AGP slot	AGP	IDE interface 1	CN8

ATX power connector	ATX	IDE interface 2	CN9
Chassis fan power	C1	Wake on LAN connector	J12
CPU fan power	C2	IR connector	JP3
AGP fan power	C3	Reset switch	JP6/pins 1 & 2
Parallel port	CN1	IDE interface LED	JP6/pins 3 & 4
Serial port 1	CN2	Green PC LED	JP6/pins 5 & 6
Serial port 2	CN3	Green PC connector	JP6/pins 7 & 8
USB connector 1	CN4	Soft off power supply	JP6/pins 9 & 10
USB connector 2	CN5	Power LED & keylock	JP6/pins 11 - 15
PS/2 mouse port	CN6	Speaker	JP6/pins 16 - 20
Floppy drive interface	CN7	32-bit PCI slots	PC1 - PC4

USER CONFIGURABLE SETTINGS			
	Function	Label	Position
»	CMOS memory normal operation	JP2	Pins 1 & 2 closed
	CMOS memory clear	JP2	Pins 2 & 3 closed
	Flash BIOS voltage select 12v	JP5	Pins 2 & 3 closed
	Flash BIOS voltage select 5v	JP5	Pins 1 & 2 closed
	SDRAM clock synchronous with CPU clock	JP9	Pins 2 & 3 closed
	SDRAM clock synchronous with AGP clock	JP9	Pins 1 & 2 closed

DIMM CONFIGURATION			
Size	Bank 0	Bank 1	Bank 2
8MB	(1) 1M x 64	None	None
16MB	(1) 2M x 64	None	None
16MB	(1) 1M x 64	(1) 1M x 64	None
24MB	(1) 2M x 64	(1) 1M x 64	None

24MB	(1) 1M x 64	(1) 1M x 64	(1) 1M x 64
32MB	(1) 4M x 64	None	None
32MB	(1) 2M x 64	(1) 1M x 64	(1) 1M x 64
32MB	(1) 2M x 64	(1) 2M x 64	None
40MB	(1) 4M x 64	(1) 1M x 64	None
40MB	(1) 2M x 64	(1) 2M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 1M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 2M x 64	None
48MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
56MB	(1) 4M x 64	(1) 2M x 64	(1) 1M x 64
64MB	(1) 8M x 64	None	None
64MB	(1) 4M x 64	(1) 2M x 64	(1) 2M x 64
64MB	(1) 4M x 64	(1) 4M x 64	None
72MB	(1) 8M x 64	(1) 1M x 64	None

DIMM CONFIGURATION (CON'T)			
Size	Bank 0	Bank 1	Bank 2
72MB	(1) 4M x 64	(1) 4M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 1M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 2M x 64	None
80MB	(1) 4M x 64	(1) 4M x 64	(1) 2M x 64
88MB	(1) 8M x 64	(1) 2M x 64	(1) 1M x 64
96MB	(1) 8M x 64	(1) 2M x 64	(1) 2M x 64
96MB	(1) 8M x 64	(1) 4M x 64	None
96MB	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64
104MB	(1) 8M x 64	(1) 4M x 64	(1) 1M x 64
112MB	(1) 8M x 64	(1) 4M x 64	(1) 2M x 64
128MB	(1) 16M x 64	None	None

128MB	(1) 8M x 64	(1) 4M x 64	(1) 4M x 64
128MB	(1) 8M x 64	(1) 8M x 64	None
136MB	(1) 16M x 64	(1) 1M x 64	None
136MB	(1) 8M x 64	(1) 8M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 1M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 2M x 64	None
144MB	(1) 8M x 64	(1) 8M x 64	(1) 2M x 64
152MB	(1) 16M x 64	(1) 2M x 64	(1) 1M x 64
160MB	(1) 16M x 64	(1) 2M x 64	(1) 2M x 64
160MB	(1) 16M x 64	(1) 4M x 64	None
160MB	(1) 8M x 64	(1) 8M x 64	(1) 4M x 64
168MB	(1) 16M x 64	(1) 4M x 64	(1) 1M x 64
176MB	(1) 16M x 64	(1) 4M x 64	(1) 2M x 64
192MB	(1) 16M x 64	(1) 4M x 64	(1) 4M x 64
192MB	(1) 16M x 64	(1) 8M x 64	None
192MB	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64
200MB	(1) 16M x 64	(1) 8M x 64	(1) 1M x 64
208MB	(1) 16M x 64	(1) 8M x 64	(1) 2M x 64
224MB	(1) 16M x 64	(1) 8M x 64	(1) 4M x 64
256MB	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64
384MB	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64
Note: Board accepts EDO & SDRAM memory. The location of the banks are unidentified.			

CACHE CONFIGURATION	
Size	Bank 0
512KB	(2) 64K x 32
1MB	(2) 128K x 32

CPU SPEED SELECTION (CX 6X86)					
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
166MHz	66MHz	2x	Off	Off	Off
200MHz	75MHz	2x	On	Off	Off

CPU SPEED SELECTION (CX 6X86 ,CON'T)						
CPU speed	Clock speed	Multiplier	SW1/4	SW1/5	SW1/6	JA26
166MHz	66MHz	2x	On	Off	Off	2 & 3
200MHz	75MHz	2x	On	Off	Off	2 & 3
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (IBM 6X86)					
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
166MHz	66MHz	2x	Off	Off	Off
200MHz	75MHz	2x	On	Off	Off

CPU SPEED SELECTION (IBM 6X86 ,CON'T)						
CPU speed	Clock speed	Multiplier	SW1/4	SW1/5	SW1/6	JA26
166MHz	66MHz	2x	On	Off	Off	2 & 3
200MHz	75MHz	2x	On	Off	Off	2 & 3
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (CX 6X86L)					
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
166MHz	66MHz	2x	Off	Off	Off
200MHz	75MHz	2x	On	Off	Off

CPU SPEED SELECTION (CX 6X86L, CON'T)						
CPU speed	Clock speed	Multiplier	SW1/4	SW1/5	SW1/6	JA26
166MHz	66MHz	2x	On	Off	Off	2 & 3
200MHz	75MHz	2x	On	Off	Off	2 & 3
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (IBM 6X86L)					
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
166MHz	66MHz	2x	Off	Off	Off
200MHz	75MHz	2x	On	Off	Off

CPU SPEED SELECTION (IBM 6X86L, CON'T)						
CPU speed	Clock speed	Multiplier	SW1/4	SW1/5	SW1/6	JA26
166MHz	66MHz	2x	On	Off	Off	2 & 3
200MHz	75MHz	2x	On	Off	Off	2 & 3
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (CX 6X86MX)					
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
200MHz	66MHz	2.5x	Off	Off	Off
200MHz	75MHz	2x	On	Off	Off
233MHz	66MHz	3x	Off	Off	Off
233MHz	75MHz	2.5x	On	Off	Off
266MHz	66MHz	3.5x	Off	Off	Off
266MHz	83MHz	2.5x	On	On	Off
300MHz	66MHz	3.5x	Off	Off	Off

CPU speed	Clock speed	Multiplier	SW1/4	SW1/5	SW1/6
300MHz	75MHz	3x	On	Off	Off
333MHz	83MHz	3x	On	On	Off
333MHz	100MHz	2.5x	Off	Off	On

CPU SPEED SELECTION (CX 6X86MX ,CON'T)						
CPU speed	Clock speed	Multiplier	SW1/4	SW1/5	SW1/6	JA26
200MHz	66MHz	2.5x	On	On	Off	2 & 3
200MHz	75MHz	2x	On	Off	Off	2 & 3
233MHz	66MHz	3x	Off	On	Off	2 & 3
233MHz	75MHz	2.5x	On	On	Off	2 & 3
266MHz	66MHz	3.5x	Off	Off	Off	2 & 3
266MHz	83MHz	2.5x	On	On	Off	1 & 2
300MHz	66MHz	3.5x	Off	Off	Off	2 & 3
300MHz	75MHz	3x	Off	On	Off	2 & 3
333MHz	83MHz	3x	Off	On	Off	1 & 2
333MHz	100MHz	2.5x	On	On	Off	2 & 3
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (IBM 6X86MX)					
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
200MHz	66MHz	2.5x	Off	Off	Off
200MHz	75MHz	2x	On	Off	Off
233MHz	66MHz	3x	Off	Off	Off
233MHz	75MHz	2.5x	On	Off	Off
266MHz	66MHz	3.5x	Off	Off	Off
266MHz	83MHz	2.5x	On	On	Off
300MHz	66MHz	3.5x	Off	Off	Off
300MHz	75MHz	3x	On	Off	Off

CPU speed	Clock speed	Multiplier			
333MHz	83MHz	3x	On	On	Off
333MHz	100MHz	2.5x	Off	Off	On

CPU SPEED SELECTION (IBM 6X86MX ,CON'T)						
CPU speed	Clock speed	Multiplier	SW1/4	SW1/5	SW1/6	JA26
200MHz	66MHz	2.5x	On	On	Off	2 & 3
200MHz	75MHz	2x	On	Off	Off	2 & 3
233MHz	66MHz	3x	Off	On	Off	2 & 3
233MHz	75MHz	2.5x	On	On	Off	2 & 3
266MHz	66MHz	3.5x	Off	Off	Off	2 & 3
266MHz	83MHz	2.5x	On	On	Off	1 & 2
300MHz	66MHz	3.5x	Off	Off	Off	2 & 3
300MHz	75MHz	3x	Off	On	Off	2 & 3
333MHz	83MHz	3x	Off	On	Off	1 & 2
333MHz	100MHz	2.5x	On	On	Off	2 & 3
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (IDT C6)					
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
200MHz	66MHz	3x	Off	Off	Off
225MHz	75MHz	3x	On	Off	Off

CPU SPEED SELECTION (IDT C6 ,CON'T)						
CPU speed	Clock speed	Multiplier	SW1/4	SW1/5	SW1/6	JA26
200MHz	66MHz	3x	Off	On	Off	2 & 3
225MHz	75MHz	3x	Off	On	Off	2 & 3
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (AM K5)					
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
133MHz	66MHz	1.5x	Off	Off	Off
166MHz	66MHz	2.5x	Off	Off	Off

CPU SPEED SELECTION (AM K5, CON'T)						
CPU speed	Clock speed	Multiplier	SW1/4	SW1/5	SW1/6	JA26
133MHz	66MHz	1.5x	Off	Off	Off	2 & 3
166MHz	66MHz	2.5x	On	On	Off	2 & 3
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (AM K6)					
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
166MHz	66MHz	2.5x	Off	Off	Off
200MHz	66MHz	3x	Off	Off	Off
233MHz	66MHz	3.5x	Off	Off	Off
266MHz	66MHz	4x	Off	Off	Off
300MHz	66MHz	4.5x	Off	Off	Off

CPU SPEED SELECTION (AM K6, CON'T)						
CPU speed	Clock speed	Multiplier	SW1/4	SW1/5	SW1/6	JA26
166MHz	66MHz	2.5x	On	On	Off	2 & 3
200MHz	66MHz	3x	Off	On	Off	2 & 3
233MHz	66MHz	3.5x	Off	Off	Off	2 & 3
266MHz	66MHz	4x	On	Off	On	2 & 3
300MHz	66MHz	4.5x	On	On	On	2 & 3

Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (AM K6-2)					
CPU speed	**Clock speed**	**Multiplier**	**SW1/1**	**SW1/2**	**SW1/3**
266MHz	66MHz	4x	Off	Off	Off
300MHz	66MHz	4.5x	Off	Off	Off
300MHz	100MHz	3x	Off	Off	On
333MHz	66MHz	5x	Off	Off	Off
333MHz	95MHz	3.5x	Off	On	On
350MHz	100MHz	3.5x	Off	Off	On
366MHz	66MHz	5.5x	Off	Off	Off
380MHz	95MHz	4x	Off	On	On
400MHz	100MHz	4x	Off	Off	On
450MHz	100MHz	4.5x	Off	Off	On

CPU SPEED SELECTION (AM K6-2, CON'T)						
CPU speed	**Clock speed**	**Multiplier**	**SW1/4**	**SW1/5**	**SW1/6**	**JA26**
266MHz	66MHz	4x	On	Off	On	2 & 3
300MHz	66MHz	4.5x	Off	Off	Off	2 & 3
300MHz	100MHz	3x	Off	On	Off	1 & 2
333MHz	66MHz	5x	Off	On	On	2 & 3
333MHz	95MHz	3.5x	Off	Off	Off	1 & 2
350MHz	100MHz	3.5x	Off	Off	Off	1 & 2
366MHz	66MHz	5.5x	Off	Off	On	2 & 3
380MHz	95MHz	4x	On	Off	On	1 & 2
400MHz	100MHz	4x	On	Off	On	1 & 2
450MHz	100MHz	4.5x	On	On	On	1 & 2

CPU SPEED SELECTION (INTEL)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
100MHz	66MHz	1.5x	Off	Off	Off
133MHz	66MHz	2x	Off	Off	Off
166MHz	66MHz	2.5x	Off	Off	Off
200MHz	66MHz	3x	Off	Off	Off

CPU SPEED SELECTION (INTEL ,CON'T)

CPU speed	Clock speed	Multiplier	SW1/4	SW1/5	SW1/6	JA26
100MHz	66MHz	1.5x	Off	Off	Off	2 & 3
133MHz	66MHz	2x	On	Off	Off	2 & 3
166MHz	66MHz	2.5x	On	On	Off	2 & 3
200MHz	66MHz	3x	Off	On	Off	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (INTEL MMX)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
166MHz	66MHz	2.5x	Off	Off	Off
200MHz	66MHz	3x	Off	Off	Off
233MHz	66MHz	3.5x	Off	Off	Off

CPU SPEED SELECTION (INTEL MMX ,CON'T)

CPU speed	Clock speed	Multiplier	SW1/4	SW1/5	SW1/6	JA26
166MHz	66MHz	2.5x	On	On	Off	2 & 3
200MHz	66MHz	3x	Off	On	Off	2 & 3

| 233MHz | 66MHz | 3.5x | Off | Off | Off | 2 & 3 |

Note: Pins designated should be in the closed position.

CPU VOLTAGE SELECTION					
Voltage	J19A	J19B	J19C	J19D	J19E
Auto	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3
1.8	Open	1 & 2	Open	1 & 2	1 & 2
1.9	Open	Open	1 & 2	1 & 2	1 & 2
2.0	Open	1 & 2	1 & 2	1 & 2	1 & 2
2.1	1 & 2	Open	Open	Open	Open
2.2	Open	1 & 2	Open	Open	Open
2.3	1 & 2	1 & 2	Open	Open	Open
2.5	1 & 2	Open	1 & 2	Open	Open
2.8	Open	Open	Open	1 & 2	Open
2.9	1 & 2	Open	Open	1 & 2	Open
3.2	Open	Open	1 & 2	1 & 2	Open
3.3	1 & 2	Open	1 & 2	1 & 2	Open
3.4	Open	1 & 2	1 & 2	1 & 2	Open
3.5	1 & 2	1 & 2	1 & 2	1 & 2	Open

Note: Pins designated should be in the closed position.