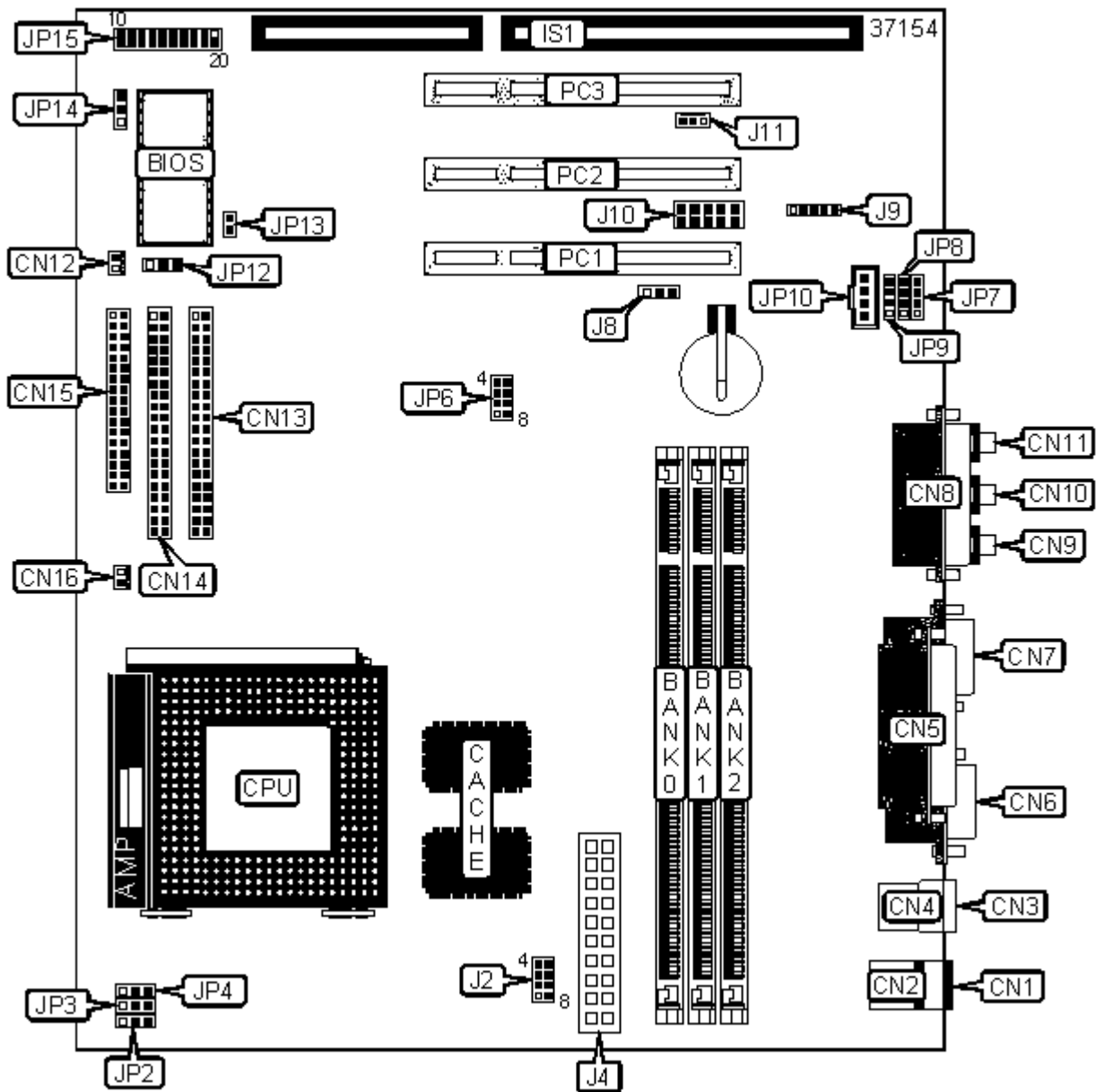


SHUTTLE COMPUTER INTERNATIONAL, INC.

HOT-599

Device Type	Mainboard
Processor	CX 6x86L/CX6x86MX/CX MII/IBM 6x86L/IBM 6x86MX/AM K5/AM K6/AM K6-2/AM K6-III/IDT C6/IDT Winchip 2/IDT Winchip 2A/Pentium/Pentium MMX
Processor Speed	100/133/166/200/225/233/250/266/300/333/350/366/380/400/433/450/466MHz
Chip Set	SiS
Video Chip Set	Unidentified
Audio Chip Set	Yamaha
Maximum Onboard Memory	768MB (SDRAM supported)
Maximum Video Memory	8MB (shared)
Maximum Audio Memory	Unidentified
Cache	512/1024KB
BIOS	Award
Dimensions	244mm x 205mm
I/O Options	16-bit ISA slot, 32-bit PCI slots (3), ATX power connector, audio connectors (3), audio in - CD ROM, floppy drive interface, game/MIDI port, IDE interfaces (2), IR connector, line in, line out, microphone in, parallel port, PS/2 keyboard port, PS/2 mouse port, serial interface, serial port , USB ports (2), VGA port, Wake-on-LAN connector



CONNECTIONS

Purpose	Location	Purpose	Location
PS/2 keyboard port	CN1	CPU fan power	CN16
PS/2 mouse port	CN2	Serial interface	J10
USB port 1	CN3	16-bit ISA slot	IS1
USB port 2	CN4	ATX power connector	J4
Parallel port	CN5	IR connector	J9
Serial port 1	CN6	Wake-on-LAN connector	J11
VGA port	CN7	Audio connectors	JP7 - JP9
Game/MIDI port	CN8	Audio in - CD ROM	JP10

Line out	CN9	Speaker	JP15/Pins 1 - 4
Line in	CN10	Power LED & keylock	JP15/Pins 6 - 10
Microphone in	CN11	Reset switch	JP15/Pins 11 & 12
System fan power	CN12	IDE interface LED	JP15/Pins 13 & 14
IDE interface 1	CN13	Green PC LED connector	JP15/Pins 15 & 16
IDE interface 2	CN14	Power switch	JP15/Pins 19 & 20
Floppy drive interface	CN15	32-bit PCI slots	PC1 - PC3

USER CONFIGURABLE SETTINGS

Function		Label	Position
	Onboard sound enabled	J8	Pins 1 & 2 closed
	Onboard sound disabled	J8	Pins 2 & 3 closed
»	CMOS memory normal operation	JP13	Open
	CMOS memory clear	JP13	Closed
	Flash EEPROM BIOS is 12V	JP14	Pins 1 & 2 closed
	Flash EEPROM BIOS is 5V	JP14	Pins 2 & 3 closed

DIMM CONFIGURATION

Size	Bank 0	Bank 1	Bank 2
8MB	(1) 1M x 64	None	None
16MB	(1) 1M x 64	(1) 1M x 64	None
16MB	(1) 2M x 64	None	None
24MB	(1) 1M x 64	(1) 1M x 64	(1) 1M x 64
32MB	(1) 2M x 64	(1) 2M x 64	None
32MB	(1) 4M x 64	None	None
32MB	(1) 2M x 64	(1) 1M x 64	(1) 1M x 64
48MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
48MB	(1) 4M x 64	(1) 1M x 64	(1) 1M x 64
64MB	(1) 4M x 64	(1) 4M x 64	None

64MB	(1) 8M x 64	None	None
64MB	(1) 4M x 64	(1) 2M x 64	(1) 2M x 64
80MB	(1) 8M x 64	(1) 1M x 64	(1) 1M x 64
96MB	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64
96MB	(1) 8M x 64	(1) 2M x 64	(1) 2M x 64
128MB	(1) 8M x 64	(1) 8M x 64	None
128MB	(1) 16M x 64	None	None
128MB	(1) 8M x 64	(1) 4M x 64	(1) 4M x 64
144MB	(1) 16M x 64	(1) 1M x 64	(1) 1M x 64
160MB	(1) 16M x 64	(1) 2M x 64	(1) 2M x 64
192MB	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64
192MB	(1) 16M x 64	(1) 4M x 64	(1) 4M x 64
256MB	(1) 16M x 64	(1) 16M x 64	None
256MB	(1) 32M x 64	None	None
256MB	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64
272MB	(1) 32M x 64	(1) 1M x 64	(1) 1M x 64
288MB	(1) 32M x 64	(1) 2M x 64	(1) 2M x 64
320MB	(1) 32M x 64	(1) 4M x 64	(1) 4M x 64
384MB	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64
384MB	(1) 32M x 64	(1) 8M x 64	(1) 8M x 64
512MB	(1) 32M x 64	(1) 32M x 64	None
512MB	(1) 32M x 64	(1) 16M x 64	(1) 16M x 64
768MB	(1) 32M x 64	(1) 32M x 64	(1) 32M x 64

Note: Board SDRAM memory.

CPU SPEED SELECTION (CX 6X86L)

CPU speed	Clock speed	Multiplier	JP2	JP3	JP4	JP6
166MHz	66MHz	2.0x	1 & 2	1 & 2	2 & 3	2 & 7, 3 & 6, 4 & 5

200MHz	75MHz	2.0x	1 & 2	1 & 2	2 & 3	2 & 7, 3 & 6
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Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (CX 6X86MX)

CPU speed	Clock speed	Multiplier	JP2	JP3	JP4	JP6
200MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 7, 3 & 6, 4 & 5
200MHz	75MHz	2.0x	1 & 2	1 & 2	2 & 3	2 & 7, 3 & 6
233MHz	66MHz	3.0x	1 & 2	2 & 3	1 & 2	2 & 7, 3 & 6, 4 & 5
233MHz	75MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 7, 3 & 6
266MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	2 & 7, 3 & 6, 4 & 5
266MHz	83MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 7, 4 & 5
300MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	2 & 7, 3 & 6, 4 & 5
300MHz	75MHz	3.0x	1 & 2	2 & 3	1 & 2	2 & 7, 3 & 6
333MHz	83MHz	3.0x	1 & 2	2 & 3	1 & 2	2 & 7, 4 & 5
333MHz	100MHz	2.5x	1 & 2	2 & 3	2 & 3	3 & 6, 4 & 5

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (CX MII)

CPU speed	Clock speed	Multiplier	JP2	JP3	JP4	JP6
166MHz	66MHz	2.0x	1 & 2	1 & 2	2 & 3	2 & 7, 3 & 6, 4 & 5
200MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 7, 3 & 6, 4 & 5
200MHz	75MHz	2.0x	1 & 2	1 & 2	2 & 3	2 & 7, 3 & 6
233MHz	75MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 7, 3 & 6
233MHz	83MHz	2.0x	1 & 2	1 & 2	2 & 3	2 & 7, 4 & 5
233MHz	100MHz	2.0x	1 & 2	1 & 2	2 & 3	3 & 6, 4 & 5
266MHz	66MHz	3.0x	1 & 2	2 & 3	1 & 2	2 & 7, 3 & 6, 4 & 5
266MHz	83MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 7, 4 & 5
300MHz	66MHz	3.5	1 & 2	1 & 2	1 & 2	2 & 7, 3 & 6, 4 & 5

300MHz	75MHz	3.0x	1 & 2	2 & 3	1 & 2	2 & 7, 3 & 6
300MHz	95MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 7
333MHz	66MHz	4.0x	2 & 3	1 & 2	2 & 3	2 & 7, 3 & 6, 4 & 5
333MHz	75MHz	3.5x	1 & 2	1 & 2	1 & 2	2 & 7, 3 & 6
333MHz	83MHz	3.0x	1 & 2	2 & 3	1 & 2	2 & 7, 4 & 5
350MHz	95MHz	3.0x	1 & 2	2 & 3	1 & 2	2 & 7
366MHz	83MHz	3.5x	1 & 2	1 & 2	1 & 2	2 & 7, 4 & 5
366MHz	100MHz	2.5x	1 & 2	2 & 3	2 & 3	3 & 6, 4 & 5
380MHz	100MHz	3.0x	1 & 2	2 & 3	1 & 2	3 & 6, 4 & 5
400MHz	83MHz	4.0x	2 & 3	1 & 2	2 & 3	2 & 7, 4 & 5
400MHz	95MHz	3.5x	1 & 2	1 & 2	1 & 2	2 & 7
433MHz	100MHz	3.5x	1 & 2	1 & 2	1 & 2	3 & 6, 4 & 5
450MHz	95MHz	4.0x	2 & 3	1 & 2	2 & 3	2 & 7
466MHz	100MHz	4.0x	2 & 3	1 & 2	2 & 3	3 & 6, 4 & 5

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (IBM 6X86L)

CPU speed	Clock speed	Multiplier	JP2	JP3	JP4	JP6
166MHz	66MHz	2.0x	1 & 2	1 & 2	2 & 3	2 & 7, 3 & 6, 4 & 5
200MHz	75MHz	2.0x	1 & 2	1 & 2	2 & 3	2 & 7, 3 & 6

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (IBM 6X86MX)

CPU speed	Clock speed	Multiplier	JP2	JP3	JP4	JP6
200MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 7, 3 & 6, 4 & 5
200MHz	75MHz	2.0x	1 & 2	1 & 2	2 & 3	2 & 7, 3 & 6
233MHz	66MHz	3.0x	1 & 2	2 & 3	1 & 2	2 & 7, 3 & 6, 4 & 5
233MHz	75MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 7, 3 & 6

266MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	2 & 7, 3 & 6, 4 & 5
266MHz	83MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 7, 4 & 5
300MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	2 & 7, 3 & 6, 4 & 5
300MHz	75MHz	3.0x	1 & 2	2 & 3	1 & 2	2 & 7, 3 & 6
333MHz	83MHz	3.0x	1 & 2	2 & 3	1 & 2	2 & 7, 4 & 5
333MHz	100MHz	2.5x	1 & 2	2 & 3	2 & 3	3 & 6, 4 & 5

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (AM K5)

CPU speed	Clock speed	Multiplier	JP2	JP3	JP4	JP6
133MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2	2 & 7, 3 & 6, 4 & 5
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 7, 3 & 6, 4 & 5

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (AM K6)

CPU speed	Clock speed	Multiplier	JP2	JP3	JP4	JP6
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 7, 3 & 6, 4 & 5
200MHz	66MHz	3.0x	1 & 2	2 & 3	1 & 2	2 & 7, 3 & 6, 4 & 5
233MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	2 & 7, 3 & 6, 4 & 5
266MHz	66MHz	4.0x	2 & 3	1 & 2	2 & 3	2 & 7, 3 & 6, 4 & 5
300MHz	66MHz	4.5x	2 & 3	2 & 3	2 & 3	2 & 7, 3 & 6, 4 & 5

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (AM K6-2)

CPU speed	Clock speed	Multiplier	JP2	JP3	JP4	JP6
266MHz	66MHz	4.0x	2 & 3	1 & 2	2 & 3	2 & 7, 3 & 6, 4 & 5
300MHz	66MHz	4.5x	2 & 3	2 & 3	2 & 3	2 & 7, 3 & 6, 4 & 5
300MHz	100MHz	3.0x	1 & 2	2 & 3	1 & 2	3 & 6, 4 & 5

333MHz	66MHz	5.0x	2 & 3	2 & 3	1 & 2	2 & 7, 3 & 6, 4 & 5
333MHz	95MHz	3.5x	1 & 2	1 & 2	1 & 2	2 & 7
350MHz	100MHz	3.5x	1 & 2	1 & 2	1 & 2	3 & 6, 4 & 5
366MHz	66MHz	5.5x	2 & 3	1 & 2	1 & 2	2 & 7, 3 & 6, 4 & 5
380MHz	95MHz	4.0x	2 & 3	1 & 2	2 & 3	2 & 7
400MHz	100MHz	4.0x	2 & 3	1 & 2	2 & 3	3 & 6, 4 & 5
450MHz	100MHz	4.5x	2 & 3	2 & 3	2 & 3	3 & 6, 4 & 5

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (AM K6-III)

CPU speed	Clock speed	Multiplier	JP2	JP3	JP4	JP6
400MHz	100MHz	4.0x	2 & 3	1 & 2	2 & 3	3 & 6, 4 & 5
450MHz	100MHz	4.5x	2 & 3	2 & 3	2 & 3	3 & 6, 4 & 5

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (IDT C6)

CPU speed	Clock speed	Multiplier	JP2	JP3	JP4	JP6
200MHz	66MHz	3.0x	1 & 2	2 & 3	1 & 2	2 & 7, 3 & 6, 4 & 5
225MHz	75MHz	3.0x	1 & 2	2 & 3	1 & 2	2 & 7, 3 & 6

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (IDT WINCHIP 2)

CPU speed	Clock speed	Multiplier	JP2	JP3	JP4	JP6
200MHz	66MHz	3.0x	1 & 2	2 & 3	1 & 2	2 & 7, 3 & 6, 4 & 5
225MHz	75MHz	3.0x	1 & 2	2 & 3	1 & 2	2 & 7, 3 & 6
250MHz	83MHz	3.0x	1 & 2	2 & 3	1 & 2	2 & 7, 4 & 5
266MHz	66MHz	4.0x	2 & 3	1 & 2	2 & 3	2 & 7, 3 & 6, 4 & 5

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (IDT WINCHIP 2A)

CPU speed	Clock speed	Multiplier	JP2	JP3	JP4	JP6
200MHz	66MHz	3.0x	1 & 2	2 & 3	1 & 2	2 & 7, 3 & 6, 4 & 5
233MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	2 & 7, 3 & 6, 4 & 5
250MHz	100MHz	2.5x	1 & 2	2 & 3	2 & 3	3 & 6, 4 & 5
266MHz	66MHz	4.0x	2 & 3	1 & 2	2 & 3	2 & 7, 3 & 6, 4 & 5

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (PENTIUM)

CPU speed	Clock speed	Multiplier	JP2	JP3	JP4	JP6
100MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2	2 & 7, 3 & 6, 4 & 5
133MHz	66MHz	2.0x	1 & 2	1 & 2	2 & 3	2 & 7, 3 & 6, 4 & 5
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 7, 3 & 6, 4 & 5
200MHz	66MHz	3.0x	1 & 2	2 & 3	1 & 2	2 & 7, 3 & 6, 4 & 5

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (PENTIUM MMX)

CPU speed	Clock speed	Multiplier	JP2	JP3	JP4	JP6
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 7, 3 & 6, 4 & 5
200MHz	66MHz	3.0x	1 & 2	2 & 3	1 & 2	2 & 7, 3 & 6, 4 & 5
233MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	2 & 7, 3 & 6, 4 & 5

Note: Designated pins should be in the closed position.

VOLTAGE SELECTION

Voltage	J2
2.0 V	Pins 2 & 7, 3 & 6, 4 & 5 closed
2.1 V	Pins 1 & 8 closed

2.2 V	Pins 2 & 7 closed
2.3 V	Pins 1 & 8, 2 & 7 closed
2.4 V	Pins 3 & 6 closed
2.5 V	Pins 1 & 8, 3 & 6 closed
2.6 V	Pins 2 & 7, 3 & 6 closed
2.7 V	Pins 1 & 8, 2 & 7, 3 & 6 closed
2.8 V	Pins 4 & 5 closed
2.9 V	Pins 1 & 8, 4 & 5 closed
3.0 V	Pins 2 & 7, 4 & 5 closed
3.1 V	Pins 1 & 8, 2 & 7, 4 & 5 closed
3.2 V	Pins 3 & 6, 4 & 5 closed
3.3 V	Pins 1 & 8, 3 & 6, 4 & 5 closed
3.4 V	Pins 2 & 7, 3 & 6, 4 & 5 closed
3.5 V	Pins 1 & 8, 2 & 7, 3 & 6, 4 & 5 closed