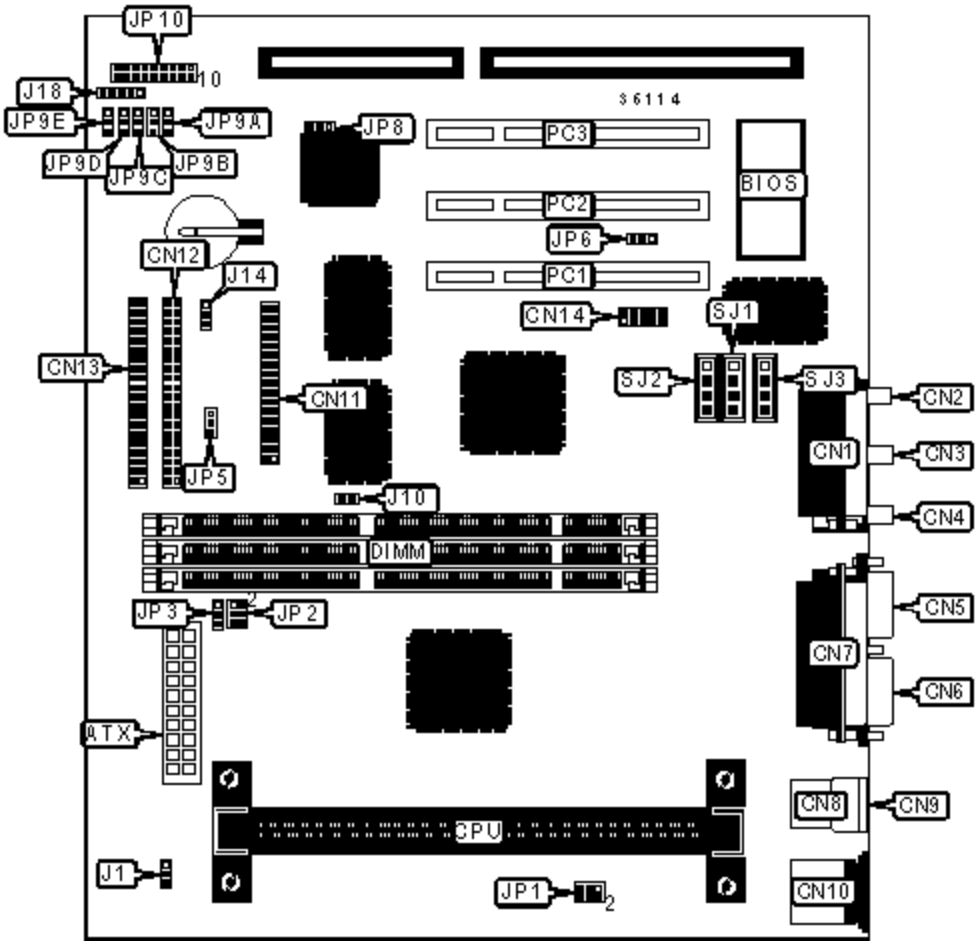
SHUTTLE COMPUTER INTERNATIONAL, INC.

HOT-679

Device Type	Mainboard
Processor	Pentium II/Celeron
Processor Speed	233/266/300/333/350/366/400/450/500MHz
Chip Set	Intel 440BX
Video Chip Set	Intel
Maximum Onboard Memory	768MB (SDRAM supported)
Maximum Video Memory	4MB
Audio Chip Set	Creative Labs
Cache	0/128/256/512KB (located on the CPU)
BIOS	Award
Dimensions	244mm x 199mm
I/O Options	32-bit PCI slots (3), floppy drive interface, game/MIDI port, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), VGA port, IR connector, USB connectors (2), ATX power connector, line in, line out, microphone in, audio in - CD-ROMs (3), wake on LAN connector



CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
ATX power connector	ATX	Wake on LAN connector	J14
Game/MIDI port	CN1	IR connector	J18
Microphone in	CN2	CPU fan power	JP3

Line in	CN3	Chassis fan power	JP5
Line out	CN4	Speaker	JP10/pins 1 - 4
VGA port	CN5	IDE interface LED	JP10/pins 6 & 7
Serial port 1	CN6	Soft off power supply	JP10/pins 8 & 9
Parallel port	CN7	Reset switch	JP10/pins 10 & 11
USB connector 1	CN8	Power LED	JP10/pins 12 - 14
USB connector 2	CN9	Green PC connector	JP10/pins 15 & 16
PS/2 mouse port	CN10	Green PC LED	JP10/pins 17 & 18
Floppy drive interface	CN11	32-bit PCI slots	PC1 - PC3
IDE interface 2	CN12	Audio in - CD-ROM	SJ1
IDE interface 1	CN13	Audio in - CD-ROM	SJ2
Serial port 2	CN14	Audio in - CD-ROM	SJ3
AGP fan power	J1		

USER CONFIGURABLE SETTINGS			
Function		**Label**	**Position**
	On board sound enabled	JP6	Pins 1 & 2 closed
	On board sound disabled	JP6	Pins 2 & 3 closed
»	CMOS memory normal operation	JP8	Pins 1 & 2 closed
	CMOS memory clear	JP8	Pins 2 & 3 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

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

DIMM CONFIGURATION (CON'T)			
Size	**Bank 0**	**Bank 1**	**Bank 2**
64MB	(1) 4M x 64	(1) 4M x 64	None
72MB	(1) 8M x 64	(1) 1M x 64	None
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) 8M x 64	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
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
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) 32M x 64	None	None
256MB	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64
264MB	(1) 32M x 64	(1) 1M x 64	None
272MB	(1) 32M x 64	(1) 1M x 64	(1) 1M x 64
320MB	(1) 32M x 64	(1) 8M x 64	None
384MB	(1) 32M x 64	(1) 8M x 64	(1) 8M x 64
384MB	(1) 32M x 64	(1) 16M x 64	None
384MB	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64
512MB	(1) 32M x 64	(1) 16M x 64	(1) 16M x 64
512MB	(1) 32M x 64	(1) 32M x 64	None
768MB	(1) 32M x 64	(1) 32M x 64	(1) 32M x 64

Note: Board accepts SDRAM memory. The location of the banks are unidentified.

CACHE CONFIGURATION
Note: 256KB/512KB cache is located on the Pentium II CPU. 128KB cache is located on the Celeron 300A & 333 CPU.

VIDEO MEMORY CONFIGURATION
Note: The location of the video memory is unidentified.

CPU SPEED SELECTION			
CPU speed	**Clock speed**	**Multiplier**	**JP2**
233MHz	66MHz	3.5x	Pins 5 & 6 closed
266MHz	66MHz	4x	Pins 5 & 6 closed
300MHz	66MHz	4.5x	Pins 5 & 6 closed
333MHz	66MHz	5x	Pins 5 & 6 closed
350MHz	100MHz	3.5x	Open
366MHz	66MHz	5.5x	Pins 5 & 6 closed
400MHz	66MHz	6x	Pins 5 & 6 closed
400MHz	100MHz	4x	Open
450MHz	100MHz	4.5x	Open
500MHz	100MHz	5x	Open

CPU SPEED SELECTION, (CON'T)							
CPU speed	**Clock speed**	**Multiplier**	**JP9A**	**JP9B**	**JP9C**	**JP9D**	**JP9E**
233MHz	66MHz	3.5x	1 & 2	Open	1 & 2	Open	Open
266MHz	66MHz	4x	Open	1 & 2	1 & 2	1 & 2	Open
300MHz	66MHz	4.5x	Open	1 & 2	1 & 2	Open	Open
333MHz	66MHz	5x	Open	Open	1 & 2	1 & 2	Open
350MHz	100MHz	3.5x	1 & 2	Open	1 & 2	Open	Open
366MHz	66MHz	5.5x	Open	Open	1 & 2	Open	Open
400MHz	66MHz	6x	1 & 2	1 & 2	Open	1 & 2	Open
400MHz	100MHz	4x	Open	1 & 2	1 & 2	1 & 2	Open
450MHz	100MHz	4.5x	Open	1 & 2	1 & 2	Open	Open

500MHz	100MHz	5x	Open	Open	1 & 2	1 & 2	Open
BIOS select	N/A	N/A	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3
Note: Pins designated should be in the closed position.							

CPU OVER CLOCK SELECTION	
Setting	**J10**
66MHz	Closed
100MHz	Open

KEYBOARD/MOUSE POWER ON SELECTION	
Setting	**JP1**
Power on disabled	Pins 3 & 5, 4 & 6 closed
Power on enabled	Pins 1 & 3, 4 & 6 closed
Mouse power on enabled	Pins 2 & 4, 3 & 5 closed