SHUTTLE COMPUTER INTERNATIONAL, INC.

HOT-681V

Device Type	Mainboard
Processor	Celeron
Processor Speed	300/333/350/366/400/433/450/466/500MHz
Chip Set	VIA VT
Maximum Onboard Memory	768MB (SDRAM supported)
Cache	128KB (located on the Celeron CPU)
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	EISCA connector	J6
ATX power connector	ATX	Chassis fan power	J9

Parallel port	CN1	Chassis fan power	J12
Serial port 1	CN2	Chassis fan power	JP1
Serial port 2	CN3	Chassis fan power	JP3
USB connector 1	CN4	IDE interface LED	JP10/pins 2 & 3
USB connector 2	CN5	Green PC connector	JP10/pins 4 & 5
PS/2 mouse port	CN6	Green PC LED	JP10/pins 6 & 7
IDE interface 2	CN7	Soft off power supply	JP10/pins 8 & 9
IDE interface 1	CN8	Reset switch	JP10/pins 10 & 11
Floppy drive interface	CN9	Power LED	JP10/pins 12 – 14
Wake on LAN connector	CN10	Speaker	JP10/pins 15 - 18
IR connector	J3	32-bit PCI slots	PC1 – PC4

USER CONFIGURABLE SETTINGS			
Function		**Label**	**Position**
»	Factory configured – do not alter	JP4	Unidentified
»	CMOS memory normal operation	JP9	Pins 1 & 2 closed
	CMOS memory clear	JP9	Pins 2 & 3 closed
	Flash BIOS voltage select 12v	JP11	Pins 2 & 3 closed
	Flash BIOS voltage select 5v	JP11	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) 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
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) 2M x 64	None
288MB	(1) 32M x 64	(1) 2M x 64	(1) 2M x 64
288MB	(1) 32M x 64	(1) 4M x 64	None
320MB	(1) 32M x 64	(1) 4M x 64	(1) 4M 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.

CACHE CONFIGURATION
Note: 128KB cache is located on the Celeron 300A & 333 CPU.

CPU SPEED SELECTION					
CPU speed	**Clock speed**	**Multiplier**	**JP5/pins 1 & 2**	**JP5/pins 3 & 4**	**JP5/pins 5 & 6**
300MHz	66MHz	4.5x	Open	Open	Closed
333MHz	66MHz	5x	Open	Open	Closed
350MHz	100MHz	3.5x	Open	Open	Open
366MHz	66MHz	5.5x	Open	Open	Closed
400MHz	66MHz	6x	Open	Open	Closed
400MHz	100MHz	4x	Open	Open	Open
433MHz	66MHz	6.5x	Open	Open	Closed
450MHz	100MHz	4.5x	Open	Open	Open
466MHz	66MHz	7x	Open	Open	Closed
500MHz	66MHz	7.5x	Open	Open	Closed
500MHz	100MHz	5x	Open	Open	Open

CPU SPEED SELECTION, CON'T						
CPU speed	**Clock speed**	**Multiplier**	**JP6/pins 1 & 6**	**JP6/pins 2 & 7**	**JP6/pins 3 & 8**	**JP6/pins 4 & 9**
300MHz	66MHz	4.5x	Open	Closed	Closed	Open
333MHz	66MHz	5x	Open	Open	Closed	Closed
350MHz	100MHz	3.5x	Closed	Open	Closed	Open
366MHz	66MHz	5.5x	Open	Open	Closed	Open
400MHz	66MHz	6x	Closed	Closed	Open	Closed

400MHz	100MHz	4x	Open	Closed	Closed	Closed
433MHz	66MHz	6.5x	Closed	Closed	Open	Open
450MHz	100MHz	4.5x	Open	Closed	Closed	Open
466MHz	66MHz	7x	Closed	Open	Open	Closed
500MHz	66MHz	7.5x	Closed	Open	Open	Open
500MHz	100MHz	5x	Open	Open	Closed	Closed

KEYBOARD/MOUSE POWER ON SELECTION	
Setting	**JP2**
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