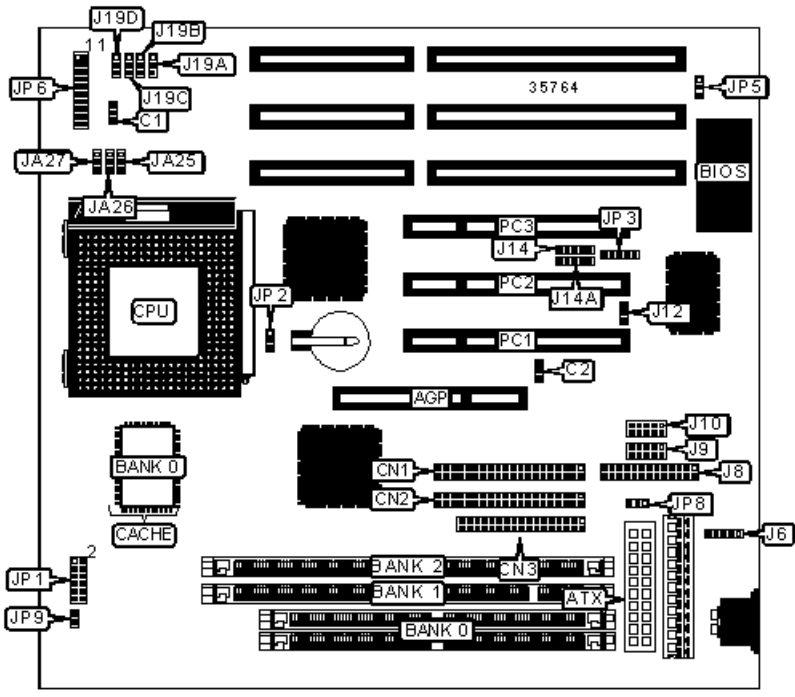


SHUTTLE COMPUTER INTERNATIONAL, INC.

HOT-591P

Device Type	Mainboard
Processor	CX 6X86/IBM 6X86/CX 6X86L/IBM 6X86L/CX 686MX/IBM 6X86MX/IDT C6/AM K5/AM K6/AM K6-2/Pentium/Pentium MMX
Processor Speed	90/100/120/133/150/166/200/233/266/300MHz
Chip Set	VIA MVP3
Maximum Onboard Memory	256MB (EDO & SDRAM supported)
Cache	512KB
BIOS	Award
Dimensions	220mm x 220mm
I/O Options	32-bit PCI slots (3), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse interface, 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	USB connector 1	J14
ATX power connector	ATX	USB connector 2	J14A
CPU fan power	C1	IR connector	JP3
Chassis fan power	C2	Reset switch	JP6/pins 1 & 2
IDE interface 2	CN1	IDE interface LED	JP6/pins 3 & 4

IDE interface 1	CN2	Green PC LED	JP6/pins 5 & 6
Floppy drive interface	CN3	Green PC connector	JP6/pins 7 & 8
PS/2 mouse interface	J6	Soft off power supply	JP6/pins 9 & 10
Parallel port	J8	Speaker	JP6/pins 11 - 15
Serial port 2	J9	Power LED & keylock	JP6/pins 17 - 20
Serial port 1	J10	32-bit PCI slots	PC1 – PC3
Wake on LAN connector	J12		

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
	Power supply select AT	JP8	Pins 2 & 3 closed
	Power supply select ATX	JP8	Pins 1 & 2 closed

SIMM CONFIGURATION

Size	Bank 0
8MB	(2) 1M x 36
16MB	(2) 2M x 36
32MB	(2) 4M x 36
64MB	(2) 8M x 36
128MB	(2) 16M x 36

Note: Board accepts EDO memory.

DIMM CONFIGURATION

Size	Bank 0	Bank 1
8MB	(1) 1M x 64	None
16MB	(1) 2M x 64	None
16MB	(1) 1M x 64	(1) 1M x 64
24MB	(1) 2M x 64	(1) 1M x 64
32MB	(1) 4M x 64	None
32MB	(1) 2M x 64	(1) 2M x 64
40MB	(1) 4M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 2M x 64
64MB	(1) 8M x 64	None
64MB	(1) 4M x 64	(1) 4M x 64
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) 16M x 64	None
128MB	(1) 8M x 64	(1) 8M x 64
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

Note: Board accepts SDRAM memory.

DIMM FREQUENCY SELECTION

Setting	JA25	JP9
Synchronous with system clock	Pins 2 & 3 closed	Open
Synchronous with AGP clock	Pins 1 & 2 closed	Closed

CACHE CONFIGURATION	
Size	Bank 0
512KB	(1) 64K x 64

CPU SPEED SELECTION (CX 6X86)					
CPU speed	Clock speed	Multiplier	JA26	JA27	JP1
150MHz	60MHz	2x	2 & 3	2 & 3	1 & 2, 3 & 4, 5 & 6, 7 & 8
166MHz	66MHz	2x	2 & 3	2 & 3	3 & 4, 5 & 6, 7 & 8
200MHz	75MHz	2x	2 & 3	2 & 3	5 & 6, 7 & 8

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (IBM 6X86)					
CPU speed	Clock speed	Multiplier	JA26	JA27	JP1
150MHz	60MHz	2x	2 & 3	2 & 3	1 & 2, 3 & 4, 5 & 6, 7 & 8
166MHz	66MHz	2x	2 & 3	2 & 3	3 & 4, 5 & 6, 7 & 8
200MHz	75MHz	2x	2 & 3	2 & 3	5 & 6, 7 & 8

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX 6X86L)					
CPU speed	Clock speed	Multiplier	JA26	JA27	JP1
150MHz	60MHz	2x	2 & 3	2 & 3	1 & 2, 3 & 4, 5 & 6, 7 & 8
166MHz	66MHz	2x	2 & 3	2 & 3	3 & 4, 5 & 6, 7 & 8
200MHz	75MHz	2x	2 & 3	2 & 3	5 & 6, 7 & 8

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (IBM 6X86L)

CPU speed	Clock speed	Multiplier	JA26	JA27	JP1
150MHz	60MHz	2x	2 & 3	2 & 3	1 & 2, 3 & 4, 5 & 6, 7 & 8
166MHz	66MHz	2x	2 & 3	2 & 3	3 & 4, 5 & 6, 7 & 8
200MHz	75MHz	2x	2 & 3	2 & 3	5 & 6, 7 & 8

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX 6X86MX)

CPU speed	Clock speed	Multiplier	JA26	JA27	JP1
200MHz	66MHz	2.5x	2 & 3	2 & 3	3 & 4, 5 & 6, 7 & 8, 9 & 10
200MHz	75MHz	2x	2 & 3	2 & 3	5 & 6, 7 & 8
233MHz	66MHz	3x	2 & 3	2 & 3	3 & 4, 5 & 6, 9 & 10
233MHz	75MHz	2.5x	2 & 3	2 & 3	5 & 6, 7 & 8, 9 & 10
266MHz	66MHz	3.5x	2 & 3	2 & 3	3 & 4, 5 & 6
266MHz	75MHz	3x	2 & 3	2 & 3	5 & 6, 9 & 10

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (IBM 6X86MX)

CPU speed	Clock speed	Multiplier	JA26	JA27	JP1
200MHz	66MHz	2.5x	2 & 3	2 & 3	3 & 4, 5 & 6, 7 & 8, 9 & 10
200MHz	75MHz	2x	2 & 3	2 & 3	5 & 6, 7 & 8
233MHz	66MHz	3x	2 & 3	2 & 3	3 & 4, 5 & 6, 9 & 10
233MHz	75MHz	2.5x	2 & 3	2 & 3	5 & 6, 7 & 8, 9 & 10
266MHz	66MHz	3.5x	2 & 3	2 & 3	3 & 4, 5 & 6

266MHz	75MHz	3x	2 & 3	2 & 3	5 & 6, 9 & 10
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Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (IDT C6)

CPU speed	Clock speed	Multiplier	JA26	JA27	JP1
150MHz	60MHz	2.5x	2 & 3	2 & 3	1 & 2, 3 & 4, 5 & 6, 7 & 8, 9 & 10
180MHz	60MHz	3x	2 & 3	2 & 3	1 & 2, 3 & 4, 5 & 6, 9 & 10
200MHz	66MHz	3x	2 & 3	2 & 3	3 & 4, 5 & 6, 9 & 10

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K5)

CPU speed	Clock speed	Multiplier	JA26	JA27	JP1
90MHz	60MHz	1.5x	2 & 3	2 & 3	1 & 2, 3 & 4, 5 & 6
100MHz	66MHz	1.5x	2 & 3	2 & 3	3 & 4, 5 & 6
120MHz	60MHz	1.5x	2 & 3	2 & 3	1 & 2, 3 & 4, 5 & 6
133MHz	66MHz	1.5x	2 & 3	2 & 3	3 & 4, 5 & 6
166MHz	66MHz	2.5x	2 & 3	2 & 3	3 & 4, 5 & 6, 7 & 8, 9 & 10

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K6)

CPU speed	Clock speed	Multiplier	JA26	JA27	JP1
166MHz	66MHz	2.5x	2 & 3	2 & 3	3 & 4, 5 & 6, 7 & 8, 9 & 10
200MHz	66MHz	3x	2 & 3	2 & 3	3 & 4, 5 & 6, 9 & 10
233MHz	66MHz	3.5x	2 & 3	2 & 3	3 & 4, 5 & 6
266MHz	66MHz	4x	2 & 3	2 & 3	3 & 4, 5 & 6, 7 & 8, 11 & 12
300MHz	66MHz	4.5x	2 & 3	2 & 3	3 & 4, 5 & 6, 7 & 8, 9 & 10, 11 & 12

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K6-2)

CPU speed	Clock speed	Multiplier	JA26	JA27	JP1
266MHz	100MHz	2.5x	1 & 2	2 & 3	7 & 8, 9 & 10
300MHz	100MHz	3x	1 & 2	2 & 3	9 & 10

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (INTEL)

CPU speed	Clock speed	Multiplier	JA26	JA27	JP1
90MHz	60MHz	1.5x	2 & 3	2 & 3	1 & 2, 3 & 4, 5 & 6
100MHz	66MHz	1.5x	2 & 3	2 & 3	3 & 4, 5 & 6
120MHz	60MHz	2x	2 & 3	2 & 3	1 & 2, 3 & 4, 5 & 6, 7 & 8
133MHz	66MHz	2x	2 & 3	2 & 3	3 & 4, 5 & 6, 7 & 8
150MHz	60MHz	2.5x	2 & 3	2 & 3	1 & 2, 3 & 4, 5 & 6, 7 & 8, 9 & 10
166MHz	66MHz	2.5x	2 & 3	2 & 3	3 & 4, 5 & 6, 7 & 8, 9 & 10
200MHz	66MHz	3x	2 & 3	2 & 3	3 & 4, 5 & 6, 9 & 10

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (INTEL MMX)

CPU speed	Clock speed	Multiplier	JA26	JA27	JP1
166MHz	66MHz	2.5x	2 & 3	2 & 3	3 & 4, 5 & 6, 7 & 8, 9 & 10
200MHz	66MHz	3x	2 & 3	2 & 3	3 & 4, 5 & 6, 9 & 10
233MHz	66MHz	3.5x	2 & 3	2 & 3	3 & 4, 5 & 6

Note: Pins designated should be in the closed position.

CPU VOLTAGE SELECTION

Voltage	J19A	J19B	J19C	J19D
Auto	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
2.0v	Open	Open	Open	Open
2.1v	Pins 1 & 2 closed	Open	Open	Open
2.2v	Open	Pins 1 & 2 closed	Open	Open
2.3v	Pins 1 & 2 closed	Pins 1 & 2 closed	Open	Open
2.4v	Open	Open	Pins 1 & 2 closed	Open
2.5v	Pins 1 & 2 closed	Open	Pins 1 & 2 closed	Open
2.6v	Open	Pins 1 & 2 closed	Pins 1 & 2 closed	Open
2.7v	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Open
2.8v	Open	Open	Open	Pins 1 & 2 closed
2.9v	Pins 1 & 2 closed	Open	Open	Pins 1 & 2 closed
3.0v	Open	Pins 1 & 2 closed	Open	Pins 1 & 2 closed
3.1v	Pins 1 & 2 closed	Pins 1 & 2 closed	Open	Pins 1 & 2 closed
3.2v	Open	Open	Pins 1 & 2 closed	Pins 1 & 2 closed
3.3v	Pins 1 & 2 closed	Open	Pins 1 & 2 closed	Pins 1 & 2 closed
3.4v	Open	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed
3.52v	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed