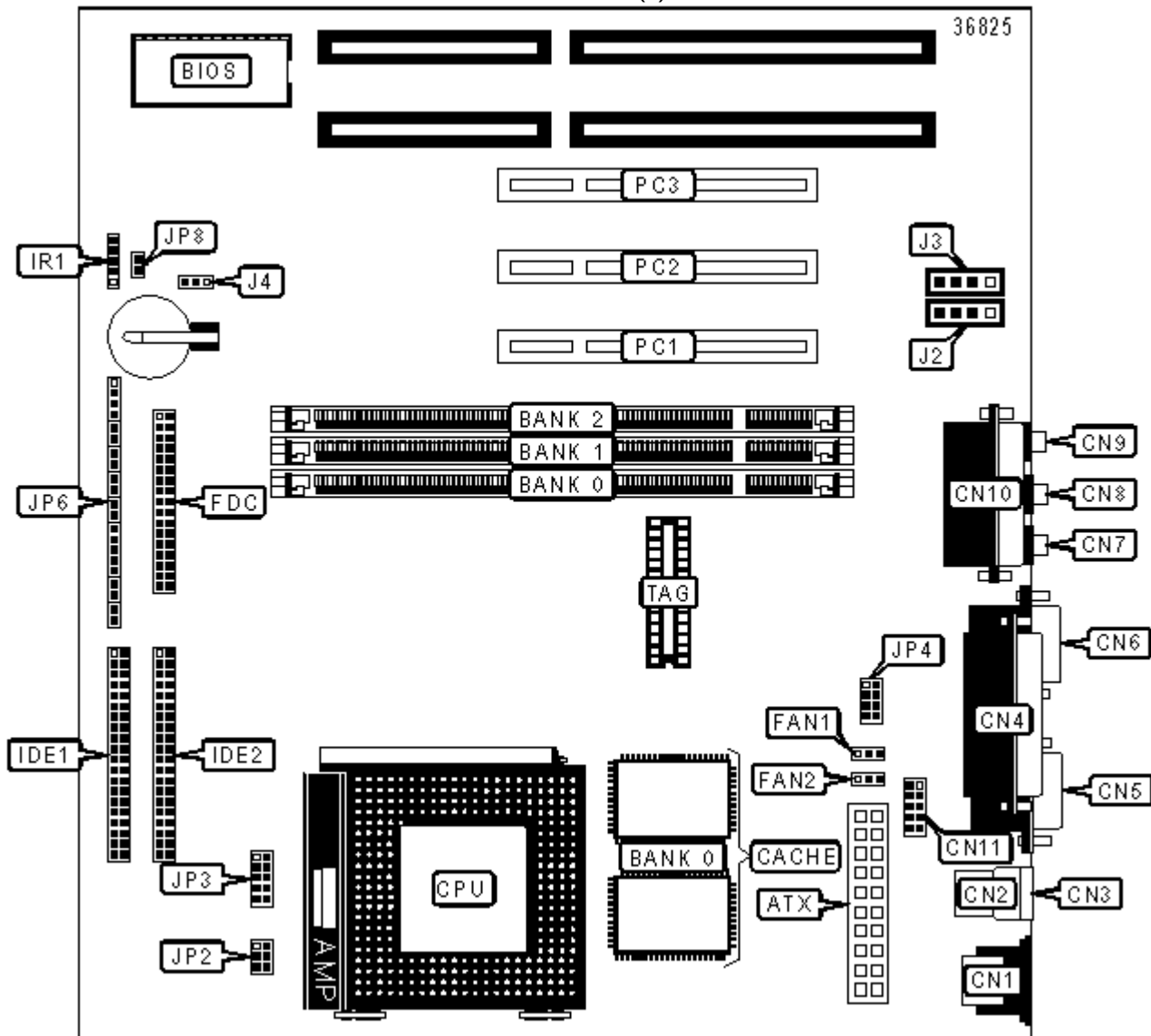


# SUPERPOWER COMPUTER CO., LTD.

## SP-5MSM

Device Type	Mainboard
Processor	CX 6X86L/CX 6X86MX/AM K6/AM K6-2/IDT Winchip2/Pentium/Pentium MMX
Processor Speed	133/150/166/180/200/233/250/266/300/333/400/450MHz
Chip Set	SIS
Video Chip Set	SIS
Audio Chip Set	ESS
Maximum Onboard Memory	768MB (EDO & SDRAM supported)
Maximum Video Memory	8MB
Cache	512KB/1024KB
BIOS	Award
Dimensions	240mm x 220
I/O Options	32-bit PCI slots (3), floppy drive interface, game/MIDI port, IDE interfaces (2), parallel port, PS/2 mouse port, serial port, serial interface, VGA port, IR connector, USB ports (2), ATX power connector, line in, line out, microphone in, audio in - CD-ROMs (2)



### CONNECTIONS

Purpose	Location	Purpose	Location
ATX power connector	ATX	IDE interface 1	IDE1
PS/2 mouse port	CN1	IDE interface 2	IDE2
USB port 1	CN2	IR connector	IR1
USB port 2	CN3	Audio in - CD-ROM	J2
Parallel port	CN4	Audio in - CD-ROM	J3
Serial port	CN5	Wake-on-LAN connector	J4
VGA port	CN6	PC speaker	JP6/Pins 1 - 4
Line out	CN7	Green PC LED	JP6/Pins 5 & 6
Line in	CN8	IDE interface 1 LED	JP6/Pins 7 & 8
Microphone in	CN9	IDE interface 2 LED	JP6/Pins 9 & 10
Game/MIDI port	CN10	Power LED & keylock	JP6/Pins 11 - 18
Serial interface	CN11	Reset switch	JP6/Pins 19 & 20
CPU fan power	FAN1	Power switch	JP6/Pins 21 & 22
System fan power	FAN2	32-bit PCI slots	PC1 - PC3
Floppy drive interface	FDC		

#### USER CONFIGURABLE SETTINGS

Function		Label	Position
»	CMOS memory normal operation	J8	Open
	CMOS memory clear	J8	Closed

#### DIMM CONFIGURATION

Size	Bank 0	Bank 1	Bank 2
16MB	(1) 2M x 64	None	None
32MB	(1) 2M x 64	(1) 2M x 64	None
32MB	(1) 4M x 64	None	None
48MB	(1) 2M x 64	(1) 2M x 64	(1) 2M 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
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
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
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 supports EDO & SDRAM memory.

### CACHE CONFIGURATION

No information is provided for cache configuration.

### CPU SPEED SELECTION (CX 6X86L)

CPU speed	Clock speed	Multiplier	JP2/Pins 1 & 2	JP2/Pins 3 & 4	JP2/Pins 5 & 6
166MHz	66MHz	2x	Closed	Open	Open
200MHz	75MHz	2x	Closed	Open	Open

**CPU SPEED SELECTION (CX 6X86L CON'T)**

CPU speed	Clock speed	Multiplier	JP4/Pins 1 & 2	JP4/Pins 3 & 4	JP4/Pins 5 & 6	JP4/Pins 7 & 8
166MHz	66MHz	2x	Open	Closed	Closed	Closed
200MHz	75MHz	2x	Open	Closed	Closed	Open

**CPU SPEED SELECTION (CX 6X86MX)**

CPU speed	Clock speed	Multiplier	JP2/Pins 1 & 2	JP2/Pins 3 & 4	JP2/Pins 5 & 6
166MHz	66MHz	2.5x	Closed	Closed	Open
200MHz	66MHz	3x	Open	Closed	Open
200MHz	75MHz	3x	Open	Closed	Open
233MHz	75MHz	3x	Open	Closed	Open
300MHz	75MHz	4x	Closed	Open	Closed
333MHz	83MHz	4x	Closed	Open	Closed

**CPU SPEED SELECTION (CX 6X86MX CON'T)**

CPU speed	Clock speed	Multiplier	JP4/Pins 1 & 2	JP4/Pins 3 & 4	JP4/Pins 5 & 6	JP4/Pins 7 & 8
166MHz	66MHz	2.5x	Open	Closed	Closed	Closed
200MHz	66MHz	3x	Open	Closed	Closed	Closed
200MHz	75MHz	3x	Open	Closed	Closed	Open
233MHz	75MHz	3x	Open	Closed	Closed	Open
300MHz	75MHz	4x	Open	Closed	Closed	Open
333MHz	83MHz	4x	Open	Closed	Open	Closed

**CPU SPEED SELECTION (AM K6)**

CPU speed	Clock speed	Multiplier	JP2/Pins 1 & 2	JP2/Pins 3 & 4	JP2/Pins 5 & 6
166MHz	66MHz	2.5x	Closed	Closed	Open
200MHz	66MHz	3x	Open	Closed	Open

233MHz	66MHz	3.5x	Open	Open	Open
266MHz	66MHz	4x	Closed	Open	Closed
300MHz	66MHz	4.5x	Closed	Closed	Closed

#### CPU SPEED SELECTION (AM K6 CON'T)

CPU speed	Clock speed	Multiplier	JP4/Pins 1 & 2	JP4/Pins 3 & 4	JP4/Pins 5 & 6	JP4/Pins 7 & 8
166MHz	66MHz	2.5x	Open	Closed	Closed	Closed
200MHz	66MHz	3x	Open	Closed	Closed	Closed
233MHz	66MHz	3.5x	Open	Closed	Closed	Closed
266MHz	66MHz	4x	Open	Closed	Closed	Closed
300MHz	66MHz	4.5x	Open	Closed	Closed	Closed

#### CPU SPEED SELECTION (AM K6-2)

CPU speed	Clock speed	Multiplier	JP2/Pins 1 & 2	JP2/Pins 3 & 4	JP2/Pins 5 & 6
250MHz	100MHz	2.5x	Closed	Closed	Open
266MHz	100MHz	2.5x	Closed	Closed	Open
300MHz	100MHz	3x	Open	Closed	Open
333MHz	95MHz	3.5x	Open	Open	Open
350MHz	100MHz	3.5x	Open	Open	Open
400MHz	100MHz	4x	Closed	Open	Closed
450MHz	100MHz	4.5x	Closed	Closed	Closed

#### CPU SPEED SELECTION (AM K6-2 CON'T)

CPU speed	Clock speed	Multiplier	JP4/Pins 1 & 2	JP4/Pins 3 & 4	JP4/Pins 5 & 6	JP4/Pins 7 & 8
250MHz	100MHz	2.5x	Open	Open	Closed	Closed
266MHz	100MHz	2.5x	Open	Open	Closed	Closed
300MHz	100MHz	3x	Open	Open	Closed	Closed
333MHz	95MHz	3.5x	Open	Closed	Open	Open

350MHz	100MHz	3.5x	Open	Open	Closed	Closed
400MHz	100MHz	4x	Open	Open	Closed	Closed
450MHz	100MHz	4.5x	Open	Open	Closed	Closed

#### CPU SPEED SELECTION (IDT WINCHIP2)

CPU speed	Clock speed	Multiplier	JP2/Pins 1 & 2	JP2/Pins 3 & 4	JP2/Pins 5 & 6
200MHz	66MHz	3x	Open	Closed	Open
233MHz	83MHz	2.5x	Closed	Closed	Open
233MHz	100MHz	2.5x	Closed	Closed	Open
266MHz	100MHz	5x	Open	Closed	Closed

#### CPU SPEED SELECTION (IDT WINCHIP2 CON'T)

CPU speed	Clock speed	Multiplier	JP4/Pins 1 & 2	JP4/Pins 3 & 4	JP4/Pins 5 & 6	JP4/Pins 7 & 8
200MHz	66MHz	3x	Open	Closed	Closed	Closed
233MHz	83MHz	2.5x	Open	Closed	Open	Closed
233MHz	100MHz	2.5x	Open	Open	Closed	Closed
266MHz	100MHz	5x	Open	Open	Closed	Closed

#### CPU SPEED SELECTION (PENTIUM)

CPU speed	Clock speed	Multiplier	JP2/Pins 1 & 2	JP2/Pins 3 & 4	JP2/Pins 5 & 6
133MHz	66MHz	2x	Closed	Open	Open
166MHz	66MHz	2.5x	Closed	Closed	Open
200MHz	66MHz	3x	Open	Closed	Open

#### CPU SPEED SELECTION (PENTIUM CON'T)

CPU speed	Clock speed	Multiplier	JP4/Pins 1 & 2	JP4/Pins 3 & 4	JP4/Pins 5 & 6	JP4/Pins 7 & 8
133MHz	66MHz	2x	Open	Closed	Closed	Closed
166MHz	66MHz	2.5x	Open	Closed	Closed	Closed

200MHz	66MHz	3x	Open	Closed	Closed	Closed
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### CPU SPEED SELECTION (PENTIUM MMX)

CPU speed	Clock speed	Multiplier	JP2/Pins 1 & 2	JP2/Pins 3 & 4	JP2/Pins 5 & 6
166MHz	66MHz	2.5x	Closed	Closed	Open
200MHz	66MHz	3x	Open	Closed	Open
233MHz	66MHz	2.5x	Closed	Closed	Open
266MHz	66MHz	4x	Closed	Open	Closed

### CPU SPEED SELECTION (PENTIUM MMX CON'T)

CPU speed	Clock speed	Multiplier	JP4/Pins 1 & 2	JP4/Pins 3 & 4	JP4/Pins 5 & 6	JP4/Pins 7 & 8
166MHz	66MHz	2.5x	Open	Closed	Closed	Closed
200MHz	66MHz	3x	Open	Closed	Closed	Closed
233MHz	66MHz	2.5x	Open	Closed	Closed	Closed
266MHz	66MHz	4x	Open	Closed	Closed	Closed

### CPU VOLTAGE SELECTION

Voltage	JP3/Pins 1 & 2	JP3/Pins 3 & 4	JP3/Pins 5 & 6	JP3/Pins 7 & 8	JP3/Pins 9 & 10
1.8V	Closed	Closed	Open	Closed	Open
2.0v	Closed	Closed	Closed	Closed	Open
2.2V	Open	Open	Open	Closed	Open
2.5V	Open	Open	Closed	Open	Closed
2.8V	Open	Closed	Open	Open	Open
2.9V	Open	Closed	Open	Open	Closed
3.1V	Open	Closed	Open	Closed	Closed
3.2V	Open	Closed	Closed	Open	Open
3.3V	Open	Closed	Closed	Open	Closed
3.5V	Open	Closed	Closed	Closed	Closed