ACER, INC.

AX59 PRO

Configuration
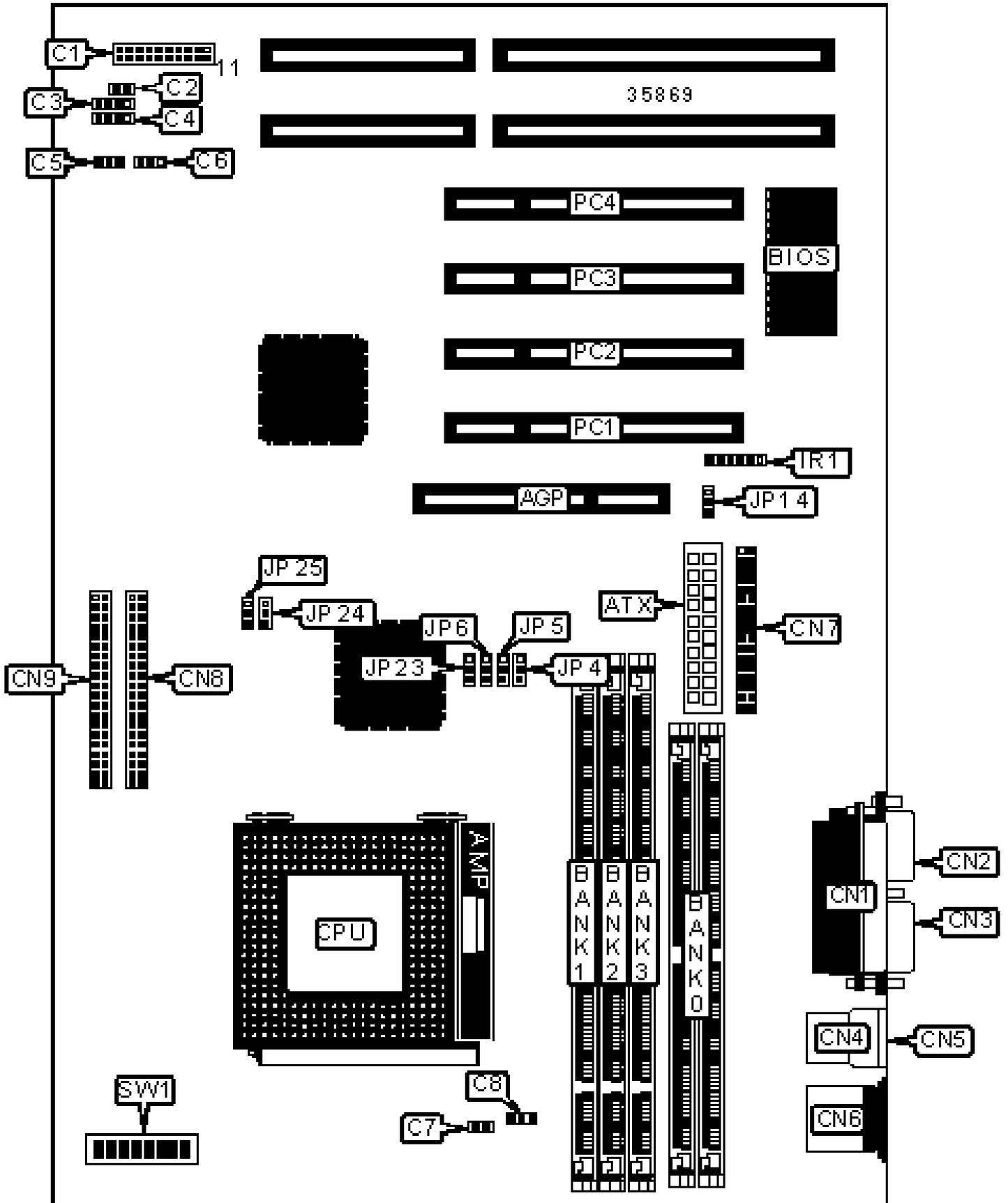
CONNECTIONS

Purpose	Location	Purpose	Location
AGP slot	AGP	Parallel port	CN1
ATX power connector	ATX	Serial port 2	CN2
Power LED & keylock	C1/pins 1 - 5	Serial port 1	CN3
Speaker	C1/pins 7 - 10	USB connector 1	CN4
Reset switch	C1/pins 19 & 20	USB connector 2	CN5
Soft off power supply	C2	PS/2 mouse port	CN6
Wake on modem connector	C3	Floppy drive interface	CN7
IDE interface LED	C4	IDE interface 2	CN8
Chassis fan power	C5	IDE interface 1	CN9
Wake on LAN connector	C6	IR connector	IR1
CPU fan power	C7	32-bit PCI slots	PC1 - PC4
CPU fan power	C8		

USER CONFIGURABLE SETTINGS

	Function	Label	Position
»	CMOS memory normal operation	JP14	Pins 1 & 2 closed
	CMOS memory clear	JP14	Pins 2 & 3 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
256MB	(2) 32M x 36
Note: Board accepts EDO memory.	

DIMM CONFIGURATION

Size	Bank 1	Bank 2	Bank 3
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

DIMM CONFIGURATION (CON'T)

Size	Bank 0	Bank 1	Bank 2
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
96MB	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64
128MB	(1) 8M x 64	(1) 8M x 64	None
128MB	(1) 16M x 64	None	None
164MB	(1) 16M x 64	(1) 1M x 64	None
144MB	(1) 16M x 64	(1) 1M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 2M x 64	None
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
256MB	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64
256MB	(1) 16M x 64	(1) 16M x 64	None
256MB	(1) 32M x 64	None	None
264MB	(1) 32M x 64	(1) 1M x 64	None
272MB	(1) 32M x 64	(1) 1M x 64	(1) 1M 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: The location of the cache is unidentified.

CPU SPEED SELECTION (CX 6X86)					
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3

150MHz	60MHz	2x	On	Off	Off
166MHz	66MHz	2x	On	Off	Off
200MHz	75MHz	2x	On	Off	Off

CPU SPEED SELECTION (CX 6X86, CON'T)						
CPU speed	Clock speed	Multiplier	JP4	JP5	JP6	JP25
150MHz	60MHz	2x	2 & 3	1 & 2	1 & 2	1 & 2
166MHz	66MHz	2x	1 & 2	1 & 2	1 & 2	1 & 2
200MHz	75MHz	2x	1 & 2	2 & 3	1 & 2	1 & 2
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (CX 6X86L)					
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
150MHz	60MHz	2x	On	Off	Off
166MHz	66MHz	2x	On	Off	Off
200MHz	75MHz	2x	On	Off	Off

CPU SPEED SELECTION (CX 6X86L, CON'T)						
CPU speed	Clock speed	Multiplier	JP4	JP5	JP6	JP25
150MHz	60MHz	2x	2 & 3	1 & 2	1 & 2	1 & 2
166MHz	66MHz	2x	1 & 2	1 & 2	1 & 2	1 & 2
200MHz	75MHz	2x	1 & 2	2 & 3	1 & 2	1 & 2
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (CX MII)					
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
166MHz	60MHz	2.5x	On	On	Off
200MHz	66MHz	2.5x	On	On	Off
200MHz	75MHz	2x	On	Off	Off
233MHz	66MHz	3x	Off	On	Off
233MHz	83MHz	2x	On	Off	Off
266MHz	66MHz	3.5x	Off	Off	Off

CPU SPEED SELECTION (CX MII, CON'T)

CPU speed	Clock speed	Multiplier	JP4	JP5	JP6	JP25
166MHz	60MHz	2.5x	2 & 3	1 & 2	1 & 2	1 & 2
200MHz	66MHz	2.5x	1 & 2	1 & 2	1 & 2	1 & 2
200MHz	75MHz	2x	1 & 2	2 & 3	1 & 2	1 & 2
233MHz	66MHz	3x	1 & 2	1 & 2	1 & 2	1 & 2
233MHz	83MHz	2x	2 & 3	2 & 3	1 & 2	2 & 3
266MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (IDT C6)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
150MHz	60MHz	2.5x	On	Off	Off
180MHz	60MHz	3x	Off	On	Off
200MHz	66MHz	3x	Off	On	Off

CPU SPEED SELECTION (IDT C6, CON'T)

CPU speed	Clock speed	Multiplier	JP4	JP5	JP6	JP25
150MHz	60MHz	2.5x	1 & 2	2 & 3	1 & 2	1 & 2

180MHz	60MHz	3x	2 & 3	1 & 2	1 & 2	1 & 2
200MHz	66MHz	3x	1 & 2	1 & 2	1 & 2	1 & 2

CPU SPEED SELECTION (AM K5)					
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
90MHz	60MHz	1.5x	Off	Off	Off
100MHz	66MHz	1.5x	Off	Off	Off
120MHz	60MHz	1.5x	Off	Off	Off
133MHz	66MHz	1.5x	Off	Off	Off
166MHz	66MHz	1.75x	On	On	Off

CPU SPEED SELECTION (AM K5, CON'T)					
CPU speed	Clock speed	Multiplier	JP4	JP5	JP6	JP25
90MHz	60MHz	1.5x	2 & 3	1 & 2	1 & 2	1 & 2
100MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2	1 & 2
120MHz	60MHz	1.5x	2 & 3	1 & 2	1 & 2	1 & 2
133MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2	1 & 2
166MHz	66MHz	1.75x	1 & 2	1 & 2	1 & 2	1 & 2
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (AM K6)					
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
166MHz	66MHz	2.5x	On	On	Off
200MHz	66MHz	3x	Off	On	Off
233MHz	66MHz	3.5x	Off	Off	Off
266MHz	66MHz	4x	On	Off	On

300MHz	66MHz	4.5x	On	On	On

CPU SPEED SELECTION (AM K6, CON'T)

CPU speed	Clock speed	Multiplier	JP4	JP5	JP6	JP25
166MHz	66MHz	2.5x	1 & 2	1 & 2	1 & 2	1 & 2
200MHz	66MHz	3x	1 & 2	1 & 2	1 & 2	1 & 2
233MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	1 & 2
266MHz	66MHz	4x	1 & 2	1 & 2	1 & 2	1 & 2
300MHz	66MHz	4.5x	1 & 2	1 & 2	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K6-2)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
300MHz	100MHz	3x	Off	On	Off

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

CPU speed	Clock speed	Multiplier	JP4	JP5	JP6	JP25
300MHz	100MHz	3x	1 & 2	1 & 2	2 & 3	2 & 3

CPU SPEED SELECTION (INTEL)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
90MHz	60MHz	1.5x	Off	Off	Off
100MHz	66MHz	1.5x	Off	Off	Off
120MHz	60MHz	2x	On	Off	Off
133MHz	66MHz	2x	On	Off	Off
150MHz	60MHz	2.5x	On	On	Off

166MHz	66MHz	2.5x	On	On	Off
200MHz	66MHz	3x	Off	On	Off

CPU SPEED SELECTION (INTEL, CON'T)

CPU speed	Clock speed	Multiplier	JP4	JP5	JP6	JP25
90MHz	60MHz	1.5x	2 & 3	1 & 2	1 & 2	1 & 2
100MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2	1 & 2
120MHz	60MHz	2x	2 & 3	1 & 2	1 & 2	1 & 2
133MHz	66MHz	2x	1 & 2	1 & 2	1 & 2	1 & 2
150MHz	60MHz	2.5x	2 & 3	1 & 2	1 & 2	1 & 2
166MHz	66MHz	2.5x	1 & 2	1 & 2	1 & 2	1 & 2
200MHz	66MHz	3x	1 & 2	1 & 2	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (INTEL MMX)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
150MHz	60MHz	2.5x	On	On	Off
166MHz	66MHz	2.5x	On	On	Off
200MHz	66MHz	3x	Off	On	Off
233MHz	66MHz	3.5x	Off	Off	Off

CPU SPEED SELECTION (INTEL MMX, CON'T)

CPU speed	Clock speed	Multiplier	JP4	JP5	JP6	JP25
150MHz	60MHz	2.5x	2 & 3	1 & 2	1 & 2	1 & 2
166MHz	66MHz	2.5x	1 & 2	1 & 2	1 & 2	1 & 2
200MHz	66MHz	3x	1 & 2	1 & 2	1 & 2	1 & 2

233MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	1 & 2
Note: Pins designated should be in the closed position.						

CPU VOLTAGE SELECTION					
Voltage	SW1/4	SW1/5	SW1/6	SW1/7	SW1/8
1.30v	Off	Off	Off	Off	On
1.35v	On	Off	Off	Off	On
1.40v	Off	On	Off	Off	On
1.45v	On	On	Off	Off	On
1.50v	Off	Off	On	Off	On
1.55v	On	Off	On	Off	On
1.60v	Off	On	On	Off	On
1.65v	On	On	On	Off	On
1.70v	Off	Off	Off	On	On
1.75v	On	Off	Off	On	On
1.80v	Off	On	Off	On	On
1.85v	On	On	Off	On	On
1.90v	Off	Off	On	On	On
1.95v	On	Off	On	On	On
2.00v	Off	On	On	On	On
2.05v	On	On	On	On	On
2.1v	On	Off	Off	Off	Off
2.2v	Off	On	Off	Off	Off
2.3v	On	On	Off	Off	Off
2.4v	Off	Off	On	Off	Off
2.5v	On	Off	On	Off	Off

2.6v	Off	On	On	Off	Off
2.7v	On	On	On	Off	Off
2.8v	Off	Off	Off	On	Off
2.9v	On	Off	Off	On	Off
3.0v	Off	On	Off	On	Off
3.1v	On	On	Off	On	Off
3.2v	Off	Off	On	On	Off
3.3v	On	Off	On	On	Off
3.4v	Off	On	On	On	Off
3.5v	On	On	On	On	Off

DRAM CLOCK SELECTION		
Setting	JP23	JP24
DRAM CLK = CPU CLK	Pins 1 & 2 closed	Pins 1 & 2 closed
DRAM CLK = AGP CLK	Pins 2 & 3 closed	Pins 2 & 3 closed