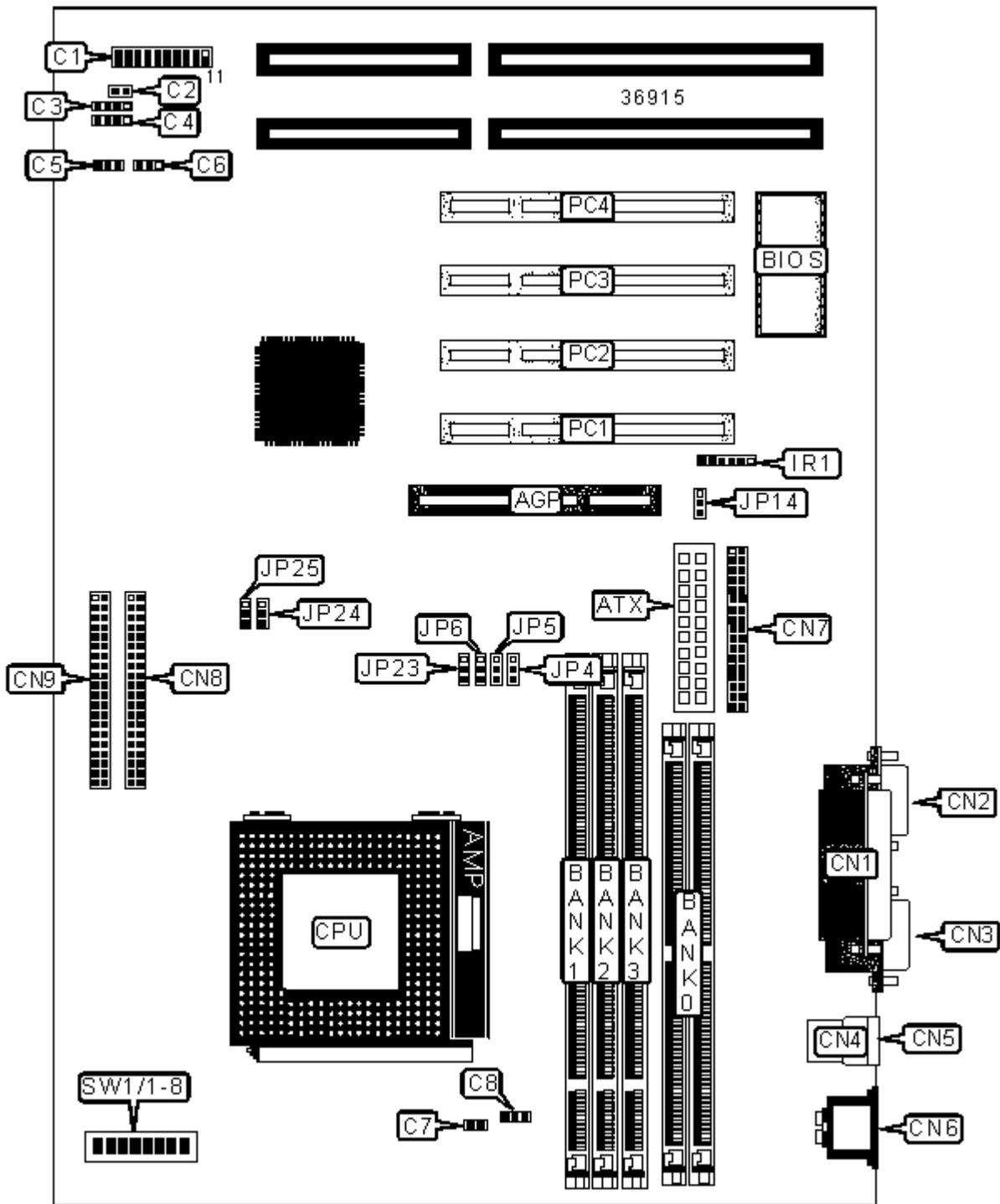


ACER, INC.

AX59 PRO (REV. 1.5)

Device Type	Mainboard
Processor	CX 6X86/CX 6X86L/CX MII/AM K5/AM K6/AM K6-2/AM K6-III/IDT C6/Pentium/Pentium MMX
Processor Speed	100/133/150/166/200/233/266/300/333/350/366/380/400/450MHz
Chip Set	VIA
Maximum Onboard Memory	1GB (EDO & SDRAM supported)
Cache	512/1024KB
BIOS	Award
Dimensions	305mm x 202mm
I/O Options	32-bit PCI slots (4), floppy drive interface, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), IR connector, USB ports (2), ATX power connector, AGP slot, Wake-on-LAN connector, Wake-on-modem connector



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 port 1	CN4
Reset switch	C1/Pins 19 & 20	USB port 2	CN5

Power switch	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 1	C7	32-bit PCI slots	PC1 - PC4
CPU fan power 2	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
32MB	(2) 4M x 36
128MB	(2) 16M x 36

Note: Board accepts EDO memory.

Note: To obtain maximum memory of 1024MB, double sided SIMM's must be used.

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
32MB	(1) 2M x 64	(1) 2M x 64	None
32MB	(1) 4M x 64	None	None

32MB	(1) 2M x 64	(1) 1M x 64	(1) 1M x 64
48MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
48MB	(1) 4M x 64	(1) 1M x 64	(1) 1M 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
80MB	(1) 8M x 64	(1) 1M x 64	(1) 1M 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
144MB	(1) 16M x 64	(1) 1M x 64	(1) 1M 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) 16M x 64	(1) 8M x 64	(1) 8M x 64

Note: Board supports SDRAM memory.

Note: To obtain maximum memory of 1024MB, double sided DIMM's must be used.

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
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
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
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
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
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
300MHz	66MHz	3.5x	Off	Off	Off
300MHz	75MHz	3x	Off	On	Off

CPU SPEED SELECTION (CX MII, CON'T)

CPU speed	Clock speed	Multiplier	JP4	JP5	JP6	JP25
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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
300MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	1 & 2
300MHz	75MHz	3x	1 & 2	2 & 3	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K5)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
100MHz	66MHz	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
100MHz	66MHz	1.5x	1 & 2	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
333MHz	95MHz	3.5x	Off	Off	Off
350MHz	100MHz	3.5x	Off	Off	Off
366MHz	66MHz	5.5x	Off	Off	On
380MHz	95MHz	4x	On	Off	On
400MHz	100MHz	4x	On	Off	On
450MHz	100MHz	4.5x	On	On	On

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

CPU speed	Clock speed	Multiplier	JP4	JP5	JP6	JP25
333MHz	95MHz	3.5x	2 & 3	1 & 2	2 & 3	2 & 3
350MHz	100MHz	3.5x	1 & 2	1 & 2	2 & 3	2 & 3
366MHz	66MHz	5.5x	1 & 2	1 & 2	1 & 2	1 & 2
380MHz	95MHz	4x	2 & 3	1 & 2	2 & 3	2 & 3
400MHz	100MHz	4x	1 & 2	1 & 2	2 & 3	2 & 3
450MHz	100MHz	4.5x	1 & 2	1 & 2	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K6-III)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
400MHz	100MHz	4x	On	Off	On
450MHz	100MHz	4.5x	On	On	On

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

CPU speed	Clock speed	Multiplier	JP4	JP5	JP6	JP25
400MHz	100MHz	4x	1 & 2	1 & 2	2 & 3	2 & 3
450MHz	100MHz	4.5x	1 & 2	1 & 2	2 & 3	2 & 3

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	75MHz	2x	On	Off	Off
200MHz	66MHz	3x	Off	On	Off

CPU SPEED SELECTION (IDT C6, CON'T)

CPU speed	Clock speed	Multiplier	JP4	JP5	JP6	JP25
150MHz	75MHz	2x	1 & 2	2 & 3	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 (PENTIUM)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
100MHz	66MHz	1.5x	Off	Off	Off
133MHz	66MHz	2x	On	Off	Off
166MHz	66MHz	2.5x	On	On	Off
200MHz	66MHz	3x	Off	On	Off

CPU SPEED SELECTION (PENTIUM CON'T)

CPU speed	Clock speed	Multiplier	JP4	JP5	JP6	JP25
100MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2	1 & 2
133MHz	66MHz	2x	1 & 2	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 (PENTIUM MMX)

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

CPU SPEED SELECTION (PENTIUM MMX, 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

Note: Pins designated should be in the closed position.

CPU VOLTAGE SELECTION (SINGLE)

Voltage	SW1/4	SW1/5	SW1/6	SW1/7	SW1/8
3.3v	On	Off	On	On	Off
3.45v	Off	On	On	On	Off
3.52v	On	On	On	On	Off

CPU VOLTAGE SELECTION (DUAL)

Voltage	SW1/4	SW1/5	SW1/6	SW1/7	SW1/8
2.2v	Off	On	Off	Off	Off

2.4v	Off	Off	On	Off	Off
2.8v	Off	Off	Off	On	Off
2.9v	On	Off	Off	On	Off
3.2v	Off	Off	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