AAEON TECHNOLOGY, INC.

SBC-596

Device Type	Mainboard
Processor	CX 6X86L/CX 6X86MX/AM K5/AM K6/Pentium/Pentium MMX
Processor Speed	75/90/100/120/133/150/166/180/200MHz
Chip Set	Intel 440TX
Video Chip Set	Chips and Technology
Maximum Onboard Memory	256MB (EDO supported)
Maximum Video Memory	8MB
Cache	512KB (located on the CPU)
BIOS	Award
Dimensions	338mm x 122mm
I/O Options	Floppy drive interface, IDE interfaces (2), parallel port, PS/2 mouse port, PS/2 keyboard port, serial ports (3), VGA port, IR connector, USB connectors (2)
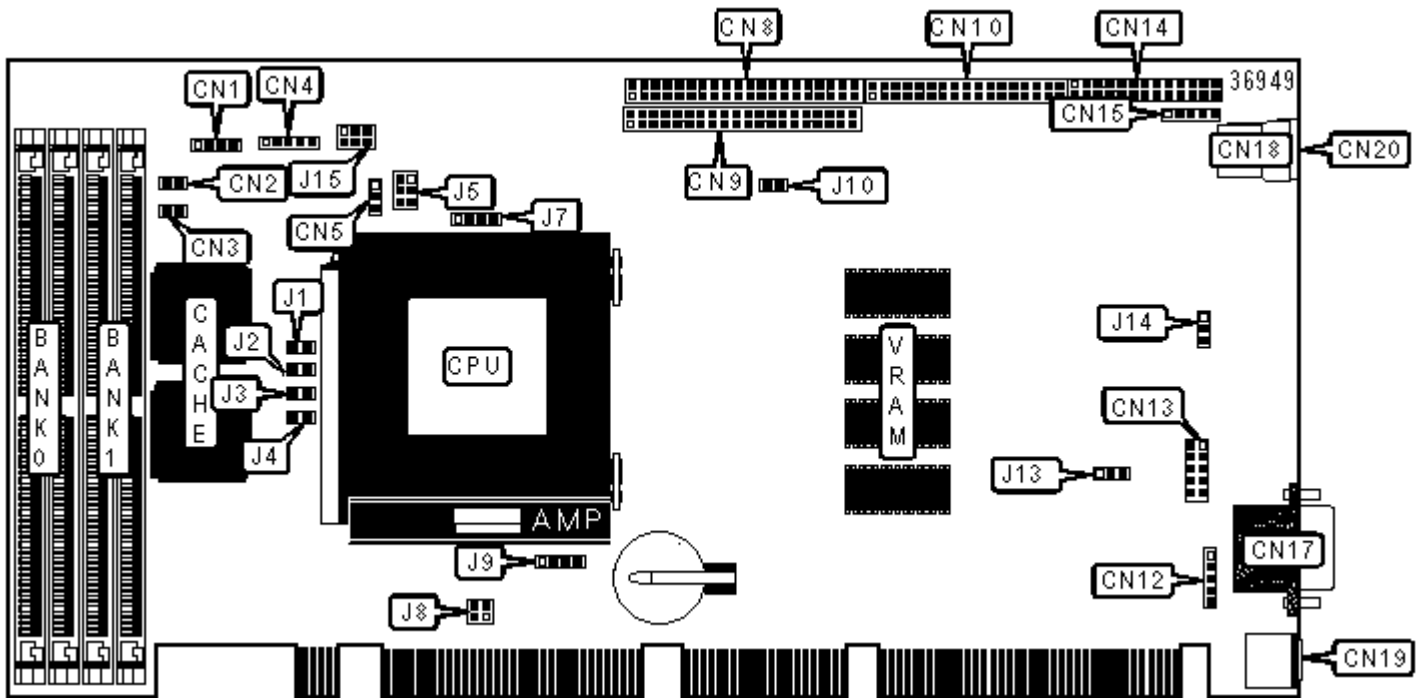
CONNECTIONS

Purpose	Location	Purpose	Location
Speaker	CN1	External keyboard interface	CN12
IDE interface LED	CN2	Serial interface	CN13
Reset switch	CN3	Parallel port	CN14
Power LED & keylock	CN4	IR connector	CN15
CPU fan power	CN5	Serial port 1	CN17
IDE interface 1	CN8	USB connector 2	CN18
IDE interface 2	CN9	PS/2 mouse/keyboard port	CN19

Floppy drive interface	CN10	USB connector 1	CN20

USER CONFIGURABLE SETTINGS

	Function	Label	Position
»	Pentium MMX enabled	J7	Pins 1 & 2 closed
	Pentium MMX disabled	J7	Pins 1 & 2 open
»	MTXC 66Hz Clock enabled	J7	Pins 3 & 4 open
	MTXC 60Hz Clock disabled	J7	Pins 3 & 4 closed
»	LCD display mode enabled	J13	Pins 2 & 3 closed
	LED display mode disabled	J13	Pins 1 & 2 closed
»	Watchdog timer enabled	J14	Pins 1 & 2 closed
	Timer activation through IRQ11 enabled	J14	Pins 2 & 3 closed
»	Dual power CPU selected	J15	Pins 3 & 5, 4 & 6 closed
	Single power CPU selected	J15	Pins 1 & 3, 2 & 4 closed

CPU CLOCK SETTINGS

	Rate	J8
	55MHZ	Pins 1 & 2, 3 & 4 closed
	60MHZ	Pins 1 & 2 closed
»	66MHZ	Open
	75MHZ	Pins 3 & 4 closed

CMOS MEMORY SETTINGS

	Function	J9
»	CMOS memory normal operation (External Battery)	Pins 1 & 2 closed
	CMOS memory normal operation (internal Battery)	Pins 3 & 4 closed
	CMOS memory clear	Open

SIMM CONFIGURATION		
Size	**Bank 0**	**Bank 1**
8MB	(2) 1M x 36	None
16MB	(2) 2M x 36	None
16MB	(2) 1M x 36	(2) 1M x 36
24MB	(2) 2M x 36	(2) 1M x 36
32MB	(2) 4M x 36	None
32MB	(2) 2M x 36	(2) 2M x 36
40MB	(2) 4M x 36	(2) 1M x 36
48MB	(2) 4M x 36	(2) 2M x 36
64MB	(2) 8M x 36	None
64MB	(2) 4M x 36	(2) 4M x 36
72MB	(2) 8M x 36	(2) 1M x 36
80MB	(2) 8M x 36	(2) 2M x 36
96MB	(2) 8M x 36	(2) 4M x 36
128MB	(2) 8M x 36	(2) 8M x 36
128MB	(2) 16M x 36	None
136MB	(2) 16M x 36	(2) 1M x 36
144MB	(2) 16M x 36	(2) 2M x 36
160MB	(2) 16M x 36	(2) 4M x 36
192MB	(2) 16M x 36	(2) 8M x 36
256MB	(2) 16M x 36	(2) 16M x 36
Note: Board accepts EDO memory.		

CPU MULTIPLIER SELECTION (CYRIX 6X86, 6X86MX)				
	Multiplier	**J5/Pins 1 & 2**	**J5/Pins 3 & 4**	**J5/Pins 5 & 6**
	1.5x	N/A	Open	Open
	2x	N/A	Open	Closed
»	2.5x	N/A	Closed	Closed

	3x	N/A	Closed	Open

CPU MULTIPLIER SELECTION (AMD K5)

	Multiplier	J5/Pins 1 & 2	J5/Pins 3 & 4	J5/Pins 5 & 6
	1.5x	N/A	Open	Open
	2x	N/A	Open	Closed
»	2.5x	N/A	Closed	Closed
	3x	N/A	Closed	Open

CPU MULTIPLIER SELECTION (AMD K6)

	Multiplier	J5/Pins 1 & 2	J5/Pins 3 & 4	J5/Pins 5 & 6
	1.5x	Open	Open	Open
	2x	Open	Open	Closed
	2.5x	Open	Closed	Closed
	3x	Open	Closed	Open
	3.5x	Open	Open	Open
	4x	Closed	Open	Closed
	4.5	Closed	Closed	Closed
	5x	Closed	Closed	Open
	5.5x	Closed	Open	Open

CPU MULTIPLIER SELECTION (INTEL PENTIUM, PENTIUM MMX)

	Multiplier		J5/Pins 1 & 2	J5/Pins 3 & 4	J5/Pins 5 & 6
		1.5x	N/A	Open	Open
		2x	N/A	Open	Closed
»		2.5x	N/A	Closed	Closed

				N/A	Closed	Open
	3x			N/A	Closed	Open
	3.5x			N/A	Open	Closed

CPU VOLTAGE SELECTION				
Voltage	**J1**	**J2**	**J3**	**J4**
2v	Open	Open	Open	Open
2.1v	Closed	Open	Open	Open
2.2v	Open	Closed	Open	Open
2.4v	Closed	Closed	Open	Open
2.5v	Open	Open	Closed	Open
2.6v	Closed	Open	Closed	Open
2.7v	Open	Closed	Closed	Open
» 2.8v	Closed	Closed	Closed	Open
2.9v	Open	Open	Open	Closed
3v	Closed	Open	Open	Closed
3.1v	Open	Closed	Open	Closed
3.2v	Closed	Closed	Open	Closed
3.3v	Open	Open	Closed	Closed
3.4v	Closed	Open	Closed	Closed
3.5v	Open	Closed	Closed	Open
3.6v	Closed	Closed	Closed	Closed