AAEON TECHNOLOGY, INC.

SBC-400

Configuration

CN1   CN2   CN3

35920

JP2

CPU

JP12

JP8

CN4

JP5   2

JP13

2

JP6   2

JP7

JP23

C1

DRAM

BANK0

2   2

JP9

JP10

CACHE

JP38

C2

JP39

CN5

JP1   2

TAG

CN7

J1

CN6
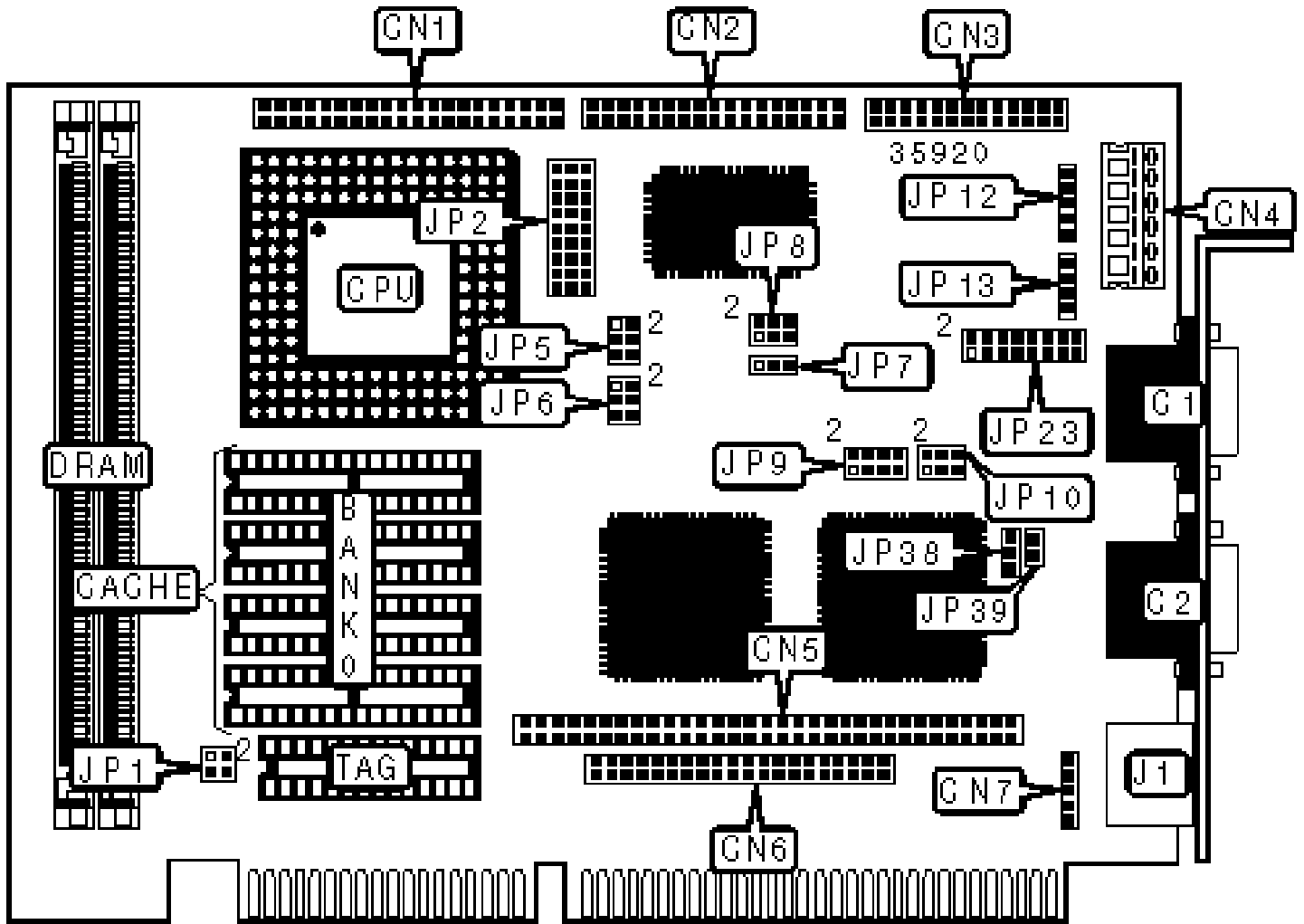
CONNECTIONS

Purpose	Location	Purpose	Location
Serial port 1	C1	Auxiliary keyboard connector	CN7
Serial port 2	C2	PS/2 mouse port	J1
IDE interface	CN1	Power LED & keylock	JP12
Floppy drive interface	CN2	Speaker	JP13
Parallel port	CN3	Reset switch	JP14
Power connector	CN4	Turbo LED	JP15
PC/104 connector	CN5	Turbo switch	JP17
PC/104 connector	CN6		
Note: The location of JP14, JP15, JP17 is unidentified.			

USER CONFIGURABLE SETTINGS

Function	Label	Position
Watchdog timer select reset	JP38	Pins 1 & 2 closed
Watchdog timer select IRQ15	JP38	Pins 2 & 3 closed

SIMM CONFIGURATION

Size	Bank 0	Bank 1
1MB	(1) 256K x 36	None
2MB	(1) 512K x 36	None
2MB	(1) 256K x 36	(1) 256K x 36
3MB	(1) 512K x 36	(1) 256K x 36
4MB	(1) 1M x 36	None
4MB	(1) 512K x 36	(1) 512K x 36
5MB	(1) 1M x 36	(1) 256K x 36

6MB	(1) 1M x 36	(1) 512K x 36
8MB	(1) 2M x 36	None
8MB	(1) 1M x 36	(1) 1M x 36
9MB	(1) 2M x 36	(1) 256K x 36
10MB	(1) 2M x 36	(1) 512K x 36
12MB	(1) 2M x 36	(1) 1M x 36
16MB	(1) 4M x 36	None
16MB	(1) 2M x 36	(1) 2M x 36
17MB	(1) 4M x 36	(1) 256K x 36
18MB	(1) 4M x 36	(1) 512K x 36
20MB	(1) 4M x 36	(1) 1M x 36
24MB	(1) 4M x 36	(1) 2M x 36
32MB	(1) 8M x 36	None
32MB	(1) 4M x 36	(1) 4M x 36
33MB	(1) 8M x 36	(1) 256K x 36
34MB	(1) 8M x 36	(1) 512K x 36
36MB	(1) 8M x 36	(1) 1M x 36
40MB	(1) 8M x 36	(1) 2M x 36
48MB	(1) 8M x 36	(1) 4M x 36
64MB	(1) 8M x 36	(1) 8M x 36
64MB	(1) 16M x 36	None
65MB	(1) 16M x 36	(1) 256K x 36
66MB	(1) 16M x 36	(1) 512K x 36
68MB	(1) 16M x 36	(1) 1M x 36
72MB	(1) 16M x 36	(1) 2M x 36
80MB	(1) 16M x 36	(1) 4M x 36

96MB	(1) 16M x 36	(1) 8M x 36
128MB	(1) 16M x 36	(1) 16M x 36
Note: Board accepts EDO memory.		

CACHE CONFIGURATION

Size	Bank 0	TAG
128KB	(4) 32K x 8	(1) 32K x 8
256KB	(4) 64K x 8	(1) 32K x 8
512KB	(4) 128K x 8	(1) 32K x 8

CACHE JUMPER CONFIGURATION

Size	JP1
128KB	Open
256KB	Pins 1 & 2 closed
512KB	Pins 1 & 2, 3 & 4 closed

CPU SPEED SELECTION

Speed	JP7	JP8
25MHz	Pins 1 & 2 closed	Open
33MHz	Pins 2 & 3 closed	Pins 3 & 4, 5 & 6 closed
40MHz	Pins 2 & 3 closed	Pins 1 & 2, 5 & 6 closed
50MHz	Pins 1 & 2 closed	Pins 1 & 2, 3 & 4 closed
50iMHz	Pins 1 & 2 closed	Open
66iMHz	Pins 2 & 3 closed	Pins 3 & 4, 5 & 6 closed
75iMHz	Pins 1 & 2 closed	Open
100iMHz	Pins 2 & 3 closed	Pins 3 & 4, 5 & 6 closed

120iMHz	Pins 2 & 3 closed	Pins 1 & 2, 5 & 6 closed
133iMHz	Pins 2 & 3 closed	Pins 3 & 4, 5 & 6 closed
150iMHz	Pins 1 & 2 closed	Open
160iMHz	Pins 2 & 3 closed	Pins 1 & 2, 5 & 6 closed

CPU TYPE SELECTION	
Type	JP2
80486SX	1 & 2, 19 & 20, 23 & 24, 25 & 26
SL80486SX	1 & 4, 2 & 5, 8 & 9, 14 & 17, 19 & 20, 23 & 24, 25 & 26
80486DX	1 & 2, 18 & 21, 19 & 20, 22 & 23, 25 & 26
SL80486DX	1 & 4, 2 & 5, 8 & 9, 14 & 17, 18 & 21, 19 & 20, 22 & 23, 25 & 26
CX486DX2	1 & 4, 2 & 3, 5 & 8, 7 & 10, 11 & 14, 18 & 21, 22 & 23, 25 & 26
SGS486DX2	1 & 4, 2 & 3, 5 & 8, 7 & 10, 11 & 14, 18 & 21, 22 & 23, 25 & 26
TI486DX2	1 & 4, 2 & 3, 5 & 8, 7 & 10, 11 & 14, 18 & 21, 22 & 23, 25 & 26
IBM486DX2	1 & 4, 2 & 3, 5 & 8, 7 & 10, 11 & 14, 18 & 21, 22 & 23, 25 & 26
AM 486DX2	1 & 4, 2 & 5, 8 & 9, 10 & 11, 13, & 16, 14 & 17, 18 & 21, 19 & 20, 22 & 23, 26 & 27
80486DX2	1 & 2, 18 & 21, 19 & 20, 22 & 23, 25 & 26
SL80486DX2	1 & 4, 2 & 5, 8 & 9, 14 & 17, 18 & 21, 19 & 20, 22 & 23, 25 & 26
AM486DX4	1 & 2, 3 & 6, 13 & 16, 18 & 21, 19 & 20, 22 & 23, 25 & 26
(SL)AM486DX4	1 & 4, 2 & 5, 8 & 9, 10 & 11, 14 & 17, 18 & 21, 19 & 20, 22 & 23, 26 & 27
SL80486DX4	1 & 4, 2 & 5, 8 & 9, 14 & 17, 18 & 21, 19 & 20, 22 & 23, 25 & 26
P24D	1 & 4, 2 & 5, 8 & 9, 10 & 11, 14 & 17, 18 & 21, 19 & 20, 22 & 23, 26 & 27
CX MISC	1 & 4, 2 & 5, 8 & 9, 10 & 11, 14 & 17, 18 & 21, 19 & 20, 22 & 23, 26 & 27
CX 5X86	1 & 4, 2 & 5, 8 & 9, 10 & 11, 14 & 17, 18 & 21, 19 & 20, 22 & 23, 25 & 26
IBM 5X86	1 & 4, 2 & 5, 8 & 9, 10 & 11, 14 & 17, 18 & 21, 19 & 20, 22 & 23, 25 & 26
SGS 5X86	1 & 4, 2 & 5, 8 & 9, 10 & 11, 14 & 17, 18 & 21, 19 & 20, 22 & 23, 25 & 26

AM X5-133/150	1 & 4, 2 & 5, 8 & 9, 10 & 11, 13, & 16, 14 & 17, 18 & 21, 19 & 20, 22 & 23, 26 & 27
AM X5-160	1 & 2, 18 & 21, 19 & 20, 22 & 23, 25 & 26
Note: Pins designated should be in the closed position.	

CPU VOLTAGE SELECTION		
Voltage	JP5	JP6
3.3v	Pins 1 & 3, 2 & 4 closed	Pins 2 & 4 closed
3.45v	Pins 1 & 3, 2 & 4 closed	Pins 3 & 5 closed
3.6v	Pins 1 & 3, 2 & 4 closed	Pins 4 & 6 closed
4v	Pins 3 & 5, 4 & 6 closed	Open
5v	Pins 1 & 3, 2 & 4 closed	Pins 1 & 3 closed

DMA CHANNEL SELECTION		
Channel	JP10	JP11
1	Pins 1 & 3, 2 & 4 closed	Pins 1 & 3, 2 & 4 closed
3	Pins 3 & 5, 4 & 6 closed	Pins 3 & 5, 4 & 6 closed
Note: The location of JP11 is unidentified.		

SERIAL PORT INTERRUPT SELECTION		
Serial port 1	Serial port 2	JP9
IRQ3	IRQ4	Pins 1 & 2, 3 & 4 closed
IRQ4	IRQ3	Pins 1 & 3, 2 & 4 closed
IRQ11	IRQ12	Pins 5 & 7, 6 & 8 closed
IRQ12	IRQ11	Pins 5 & 6, 7 & 8 closed
Note: Pins designated should be in the closed position.		

SERIAL PORT 2 SELECTION		
Setting	JP23	JP39
RS-232	Open	Closed
RS-422	Pins 1 & 2, 3 & 4, 5 & 6, 7 & 8, 9 & 10, 11 & 12 closed	Open
RS-485	Pins 3 & 4, 5 & 6, 7 & 8, 9 & 10, 11 & 12, 13 & 14, 15 & 16 closed	Open