GIGA-BYTE TECHNOLOGY CO., LTD.

GA-686EX2 (REV. 1.0)

Configuration

35692

BIOS

C1
C4
C2
C5
C3

J7

SW1

CN7

CN8

CN6

PC2

PC1

AGP

ATX

BANK 1
BANK 0

CPU

CN2

CN1

CN3

JP4
JP2
JP3

CN4
CN5

J2

C6
JP1
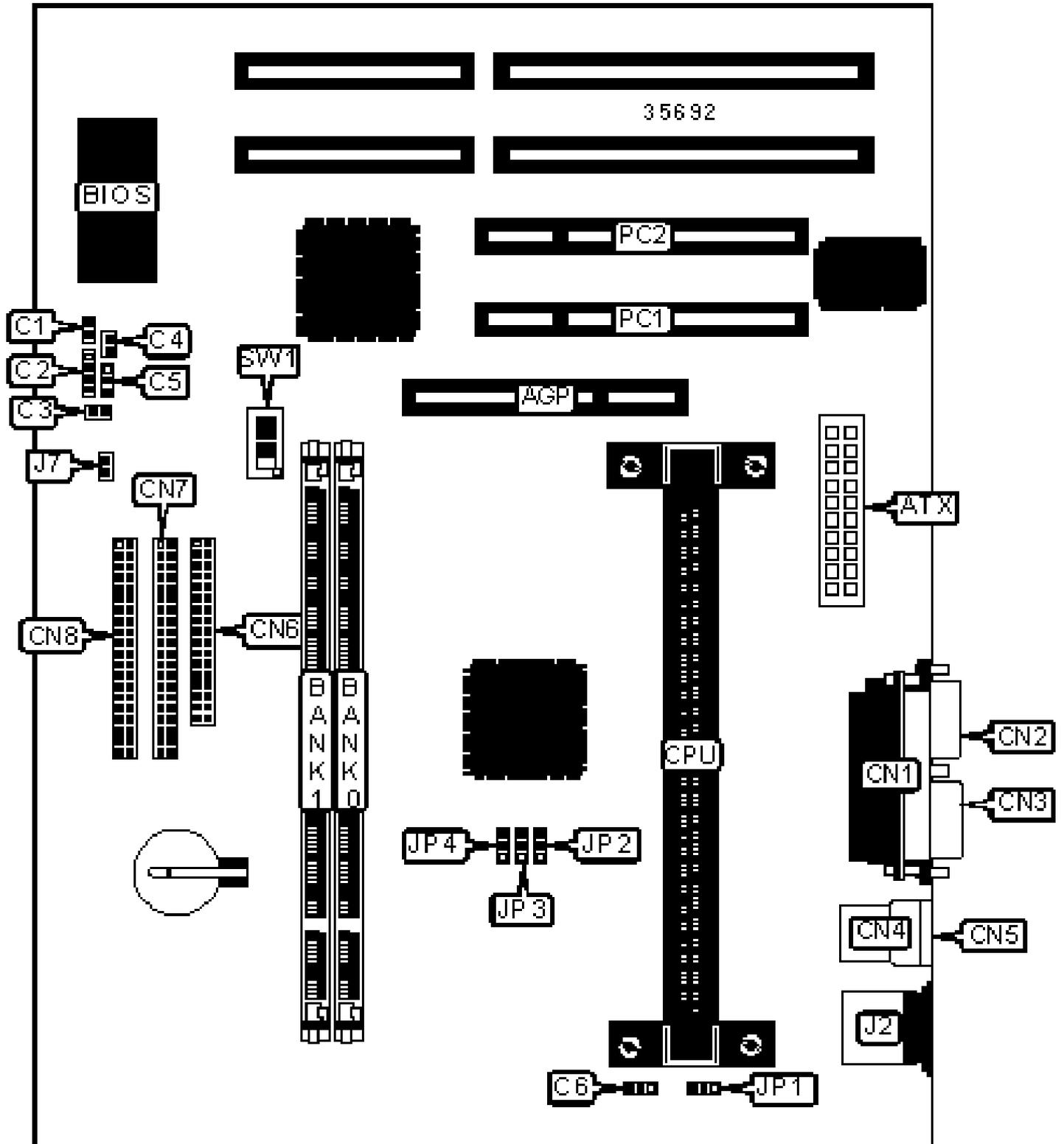
CONNECTIONS

Purpose	Location	Purpose	Location
AGP slot	AGP	Serial port 1	CN2
ATX power connector	ATX	Serial port 2	CN3
Reset switch	C1	USB connector 1	CN4
Speaker	C2	USB connector 2	CN5
IDE interface LED	C3	Floppy drive interface	CN6
Soft off power supply	C4	IDE interface 2	CN7
Power LED	C5	IDE interface 1	CN8
CPU fan power	C6	PS/2 mouse port	J2
Parallel port	CN1	32-bit PCI slots	PC1 – PC2

USER CONFIGURABLE SETTINGS

Function	Label	Position
ATX power control select soft off	J7	Open
ATX power control select soft off/full on	J7	Closed
Keyboard power on enabled	JP1	Pins 1 & 2 closed
Keyboard power on disabled	JP1	Pins 2 & 3 closed

DIMM CONFIGURATION

Size	Bank 0	Bank 1
8MB	(1) 1M x 64	None
16MB	(1) 2M x 64	None
16MB	(1) 1M x 64	(1) 1M x 64
24MB	(1) 2M x 64	(1) 1M x 64
32MB	(1) 4M x 64	None

32MB	(1) 2M x 64	(1) 2M x 64
40MB	(1) 4M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 2M x 64
64MB	(1) 8M x 64	None
64MB	(1) 4M x 64	(1) 4M x 64
72MB	(1) 8M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 2M x 64
96MB	(1) 8M x 64	(1) 4M x 64
128MB	(1) 16M x 64	None
128MB	(1) 8M x 64	(1) 8M x 64

DIMM CONFIGURATION (CON'T)

Size	Bank 0	Bank 1
136MB	(1) 16M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 2M x 64
160MB	(1) 16M x 64	(1) 4M x 64
192MB	(1) 16M x 64	(1) 8M x 64
256MB	(1) 16M x 64	(1) 16M x 64

Note: Board accepts EDO & SDRAM memory.

CACHE CONFIGURATION

Note: 256KB/512KB cache is located on the Pentium II CPU.

CPU SPEED SELECTION

CPU speed	Clock speed	Multiplier	JP2	JP3	JP4
200MHz	66MHz	3x	1 & 2	1 & 2	1 & 2

233MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2
266MHz	66MHz	4x	1 & 2	1 & 2	1 & 2
300MHz	66MHz	4.5x	1 & 2	1 & 2	1 & 2
333MHz	66MHz	5x	1 & 2	1 & 2	1 & 2
366MHz	66MHz	5.5x	1 & 2	1 & 2	1 & 2
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (CON'T)						
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4
200MHz	66MHz	3x	On	Off	On	On
233MHz	66MHz	3.5x	Off	Off	On	On
266MHz	66MHz	4x	On	On	Off	On
300MHz	66MHz	4.5x	Off	On	Off	On
333MHz	66MHz	5x	On	Off	Off	On
366MHz	66MHz	5.5x	Off	Off	Off	On