GIGA-BYTE TECHNOLOGY CO., LTD.

GA-686LX3 (VER. 1.0)

Configuration

36095

J13

PC4

PC3

BIOS

PC2

SW1

PC1

AGP

CN8

C1
C2
C3
C4
C5
C6
C7

CN7

CPU

BANK 2
BANK 1
BANK 0

CN2

CN1

CN3

JP4   JP2

ATX

JP3

CN9

CN4   CN5

JP1

CN6

J2
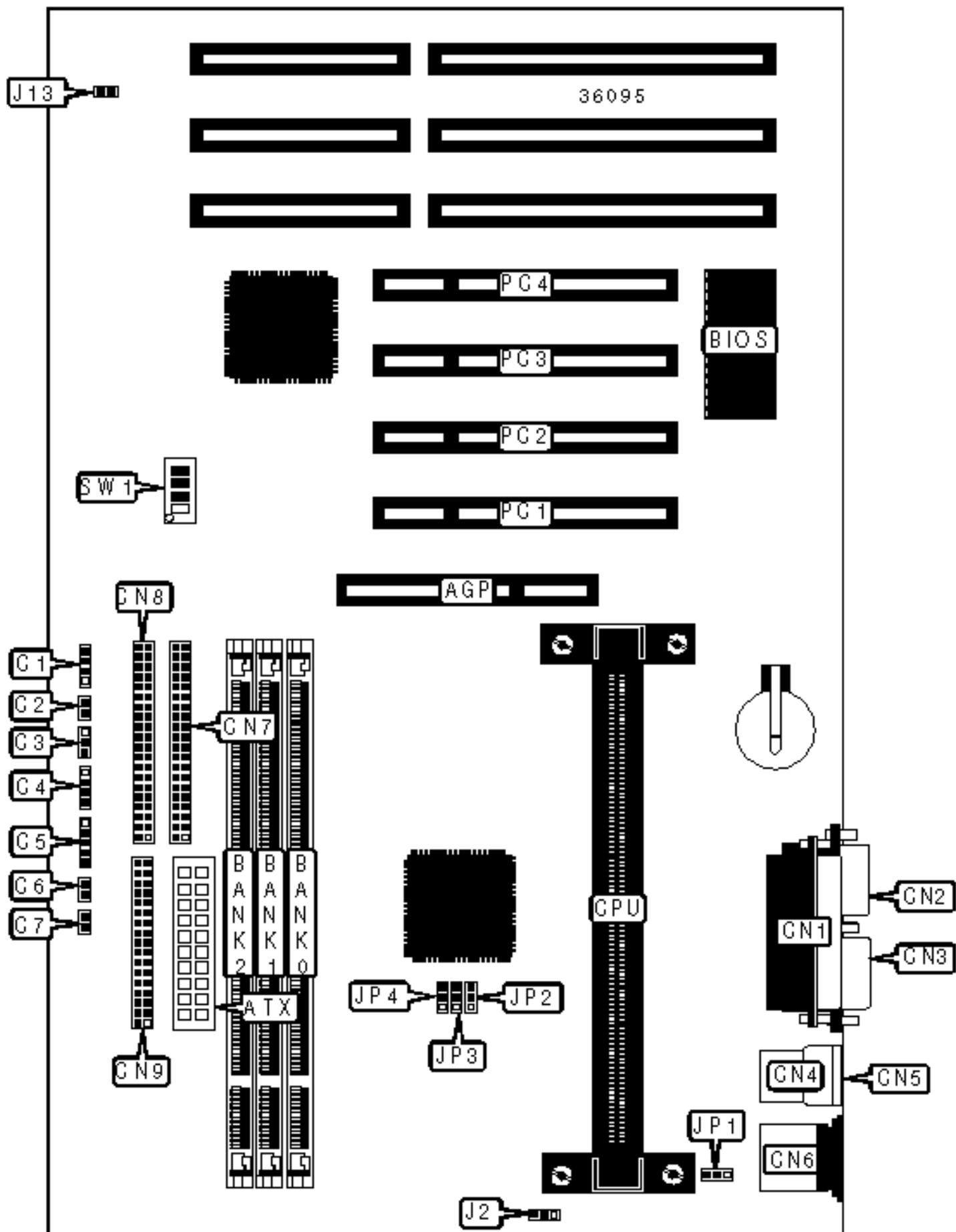
CONNECTIONS

Purpose	Location	Purpose	Location
AGP slot	AGP	Serial port 1	CN2
ATX power connector	ATX	Serial port 2	CN3
Speaker	C1	USB connector 1	CN4
Reset switch	C2	USB connector 2	CN5
Power LED	C3	PS/2 mouse port	CN6
IDE interface LED	C4	IDE interface 2	CN7
IR connector	C5	IDE interface 1	CN8
Green PC connector	C6	Floppy drive interface	CN9
Soft off power supply	C7	CPU fan power	J2
Parallel port	CN1	32-bit PCI slots	PC1 - PC4

USER CONFIGURABLE SETTINGS

	Function	Label	Position
	ATX power supply select soft off	J13	Open
	ATX power supply select full on	J13	Closed
»	Keyboard power on disabled	JP1	Pins 2 & 3 closed
	Keyboard power on enabled	JP1	Pins 1 & 2 closed

DIMM CONFIGURATION

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

Size	Bank 0	Bank 1	Bank 2
24MB	(1) 1M x 64	(1) 1M x 64	(1) 1M x 64
32MB	(1) 4M x 64	None	None
32MB	(1) 2M x 64	(1) 1M x 64	(1) 1M x 64
32MB	(1) 2M x 64	(1) 2M x 64	None
40MB	(1) 4M x 64	(1) 1M x 64	None
40MB	(1) 2M x 64	(1) 2M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 1M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 2M x 64	None
48MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
56MB	(1) 4M x 64	(1) 2M x 64	(1) 1M x 64
64MB	(1) 8M x 64	None	None
64MB	(1) 4M x 64	(1) 2M x 64	(1) 2M x 64
64MB	(1) 4M x 64	(1) 4M x 64	None
72MB	(1) 8M x 64	(1) 1M x 64	None
72MB	(1) 4M x 64	(1) 4M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 1M x 64	(1) 1M x 64

DIMM CONFIGURATION (CON'T)			
Size	Bank 0	Bank 1	Bank 2
80MB	(1) 8M x 64	(1) 2M x 64	None
80MB	(1) 4M x 64	(1) 4M x 64	(1) 2M x 64
88MB	(1) 8M x 64	(1) 2M x 64	(1) 1M x 64
96MB	(1) 8M x 64	(1) 2M x 64	(1) 2M x 64
96MB	(1) 8M x 64	(1) 4M x 64	None
96MB	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64
104MB	(1) 8M x 64	(1) 4M x 64	(1) 1M x 64

112MB	(1) 8M x 64	(1) 4M x 64	(1) 2M x 64
128MB	(1) 16M x 64	None	None
128MB	(1) 8M x 64	(1) 4M x 64	(1) 4M x 64
128MB	(1) 8M x 64	(1) 8M x 64	None
136MB	(1) 16M x 64	(1) 1M x 64	None
136MB	(1) 8M x 64	(1) 8M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 1M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 2M x 64	None
144MB	(1) 8M x 64	(1) 8M x 64	(1) 2M x 64
152MB	(1) 16M x 64	(1) 2M x 64	(1) 1M x 64
160MB	(1) 16M x 64	(1) 2M x 64	(1) 2M x 64
168MB	(1) 16M x 64	(1) 4M x 64	(1) 1M x 64
176MB	(1) 16M x 64	(1) 4M x 64	(1) 2M x 64
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) 32M x 64	None	None
256MB	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64
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 EDO & SDRAM memory. Maximum SDRAM is 384MB. Maximum EDO is 768MB.			

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