GIGA-BYTE TECHNOLOGY CO., LTD.

GA-5AX (REV. 4.0)

Device Type	Mainboard
Processor	CX 6X86MX/IBM 6X86MX/IBM MII/CX MII/AM K6/
	AM K6-2/Pentium/Pentium MMX/IDT C6
Processor Speed	133/166/200/233/266/300/333/350/400MHz
Chip Set	Unidentified
Maximum Onboard Memory	768MB
Cache	512KB
BIOS	Award
Dimensions	305mm x 244mm
I/O Options (backplane)	32-bit PCI slots (5), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), IR connector, USB connectors (2), ATX power connector, AGP slot
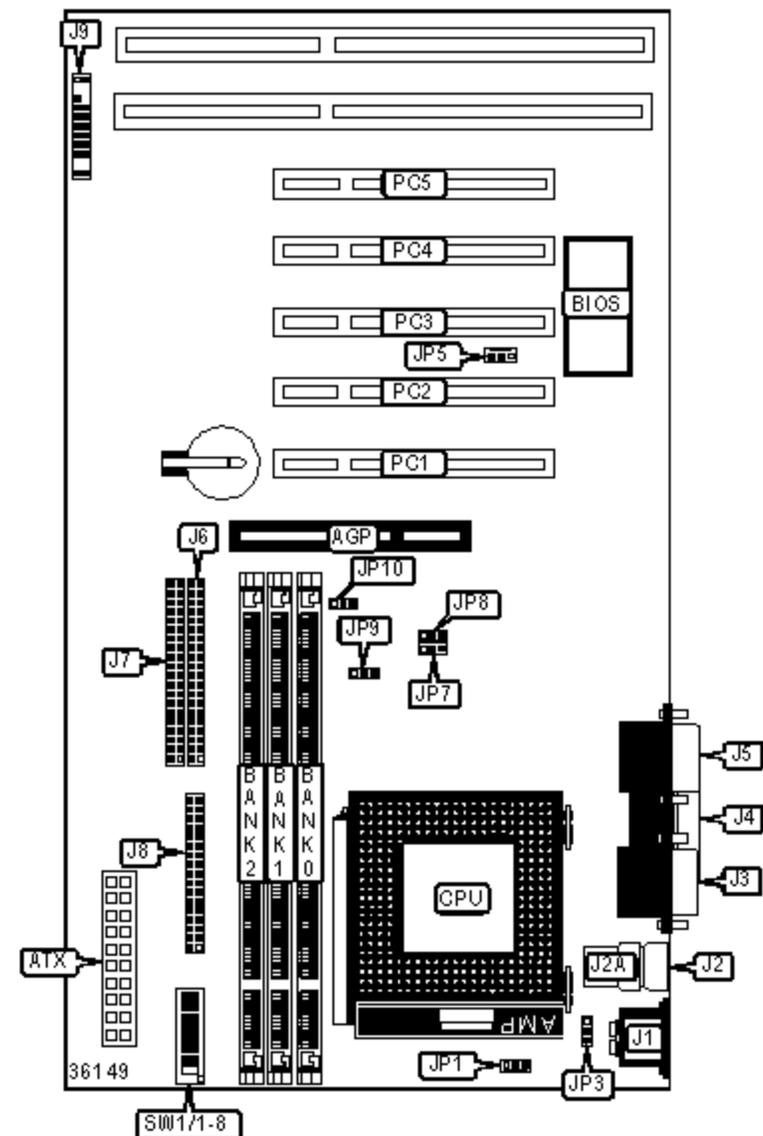
CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
AGP slot	AGP	Green LED	J9/pins 1 & 12
ATX power connector	ATX	Reset switch	J9/pins 3 & 4

ATX power connector	ATX	Reset switch	J9/pins 3 & 4
PS/2 mouse interface	J1	Speaker	J9/pins 5 - 8
USB connector 1	J2	IDE interface LED	J9/pins 9 & 20
USB connector 2	J2A	Green PC switch	J9/pins 11 & 22
Serial port 2	J3	Soft off power switch	J9/pins 15 & 16
Parallel port	J4	Power LED	J9/pins 17 - 19
Serial port 1	J5	CPU fan power	JP1
IDE interface 2	J6	Wake on LAN connector	JP5
IDE interface 1	J7	32-bit PCI slots	PC1 - PC5
Floppy drive interface	J8		

USER CONFIGURABLE SETTINGS			
Function		**Label**	**Position**
»	Keyboard power on disabled	JP3	Pins 2 & 3 closed
	Keyboard power on enabled	JP3	Pins 1 & 2 closed

DIMM CONFIGURATION			
Size	**Bank 0**	**Bank 1**	**Bank 2**
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
24MB	(1) 2M x 64	(1) 1M x 64	None
32MB	(1) 2M 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
40MB	(1) 2M x 64	(1) 2M x 64	(1) 1M x

Size	Bank 0	Bank 1	Bank 2
40MB	(1) 2M x 64	(1) 2M x 64	(1) 1M x 64
40MB	(1) 4M x 64	(1) 1M x 64	None
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
48MB	(1) 4M x 64	(1) 2M x 64	None
56MB	(1) 4M x 64	(1) 2M x 64	(1) 1M x 64
64MB	(1) 4M x 64	(1) 2M x 64	(1) 2M x 64

DIMM CONFIGURATION (CON'T)			
Size	Bank 0	Bank 1	Bank 2
64MB	(1) 4M x 64	(1) 4M x 64	None
64MB	(1) 8M x 64	None	None
72MB	(1) 4M x 64	(1) 4M x 64	(1) 1M x 64
72MB	(1) 8M x 64	(1) 1M x 64	None
80MB	(1) 4M x 64	(1) 4M x 64	(1) 2M x 64
80MB	(1) 8M x 64	(1) 1M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 2M x 64	None
88MB	(1) 8M x 64	(1) 2M 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
96MB	(1) 8M x 64	(1) 4M x 64	None
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) 8M x 64	(1) 4M x 64	(1) 4M x 64
128MB	(1) 8M x 64	(1) 8M x 64	None
128MB	(1) 16M x 64	None	None

136MB	(1) 8M x 64	(1) 8M x 64	(1) 1M x 64
136MB	(1) 16M x 64	(1) 1M x 64	None
144MB	(1) 8M x 64	(1) 8M x 64	(1) 2M 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
152MB	(1) 16M x 64	(1) 2M x 64	(1) 1M x 64
160MB	(1) 8M x 64	(1) 8M x 64	(1) 4M x 64
160MB	(1) 16M x 64	(1) 2M x 64	(1) 2M x 64
160MB	(1) 16M x 64	(1) 4M x 64	None
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) 8M x 64	(1) 8M x 64	(1) 8M 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
200MB	(1) 16M x 64	(1) 8M x 64	(1) 1M x 64
208MB	(1) 16M x 64	(1) 8M x 64	(1) 2M x 64
224MB	(1) 16M x 64	(1) 8M x 64	(1) 4M x 64
256MB	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64
256MB	(1) 16M x 64	(1) 16M x 64	None
256MB	(1) 32M x 64	None	None
264MB	(1) 16M x 64	(1) 16M x 64	(1) 1M x 64
264MB	(1) 32M x 64	(1) 1M x 64	None
272MB	(1) 16M x 64	(1) 16M x 64	(1) 2M x 64
272MB	(1) 32M x 64	(1) 1M x 64	(1) 1M x 64
272MB	(1) 32M x 64	(1) 2M x 64	None
280MB	(1) 32M x 64	(1) 2M x 64	(1) 1M x 64
288MB	(1) 16M x 64	(1) 16M x 64	(1) 4M x 64
288MB	(1) 32M x 64	(1) 2M x 64	(1) 2M x 64
288MB	(1) 32M x 64	(1) 4M x 64	None

Size	Bank 0	Bank 1	Bank 2
320MB	(1) 16M x 64	(1) 16M x 64	(1) 8M x 64
384MB	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64

CONFIGURATION (CON'T)			
Size	**Bank 0**	**Bank 1**	**Bank 2**
296MB	(1) 32M x 64	(1) 4M x 64	(1) 1M x 64
304MB	(1) 32M x 64	(1) 4M x 64	(1) 2M x 64
320MB	(1) 32M x 64	(1) 4M x 64	(1) 4M x 64
320MB	(1) 32M x 64	(1) 8M x 64	None
328MB	(1) 32M x 64	(1) 8M x 64	(1) 1M x 64
336MB	(1) 32M x 64	(1) 8M x 64	(1) 2M x 64
352MB	(1) 32M x 64	(1) 8M x 64	(1) 4M x 64
384MB	(1) 32M x 64	(1) 8M x 64	(1) 8M x 64
384MB	(1) 32M x 64	(1) 16M x 64	None
392MB	(1) 32M x 64	(1) 16M x 64	(1) 1M x 64
400MB	(1) 32M x 64	(1) 16M x 64	(1) 2M x 64
416MB	(1) 32M x 64	(1) 16M x 64	(1) 4M x 64
448MB	(1) 32M x 64	(1) 16M x 64	(1) 8M 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
520MB	(1) 32M x 64	(1) 32M x 64	(1) 1M x 64
528MB	(1) 32M x 64	(1) 32M x 64	(1) 2M x 64
544MB	(1) 32M x 64	(1) 32M x 64	(1) 4M x 64
576MB	(1) 32M x 64	(1) 32M x 64	(1) 8M x 64
640MB	(1) 32M x 64	(1) 32M x 64	(1) 16M x 64
768MB	(1) 32M x 64	(1) 32M x 64	(1) 32M x 64

CACHE CONFIGURATION	
Size	**Bank 0**
0KB	Uninstalled
512KB	(1) 64K x 64
Note: The location of Bank 0 is unidentified.	

CPU SPEED SELECTION (PENTIUM)					
CPU speed	**Clock speed**	**Multiplier**	**SW1/1**	**SW1/2**	**SW1/3**
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**	**JP7**	**JP8**	**JP9**	**JP10**
133MHz	66MHz	2x	2 & 3	2 & 3	2 & 3	1 & 2
166MHz	66MHz	2.5x	2 & 3	2 & 3	2 & 3	1 & 2
200MHz	66MHz	3x	2 & 3	2 & 3	2 & 3	1 & 2
Note: Pins designated are 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	JP7	JP8	JP9	JP10
166MHz	66MHz	2.5x	2 & 3	2 & 3	2 & 3	1 & 2
200MHz	66MHz	3x	2 & 3	2 & 3	2 & 3	1 & 2
233MHz	66MHz	3.5x	2 & 3	2 & 3	2 & 3	1 & 2
Note: Pins designated are 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
300MHz	100MHz	3x	Off	On	Off

CPU SPEED SELECTION (AM K6 CON'T)						
CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	JP10
166MHz	66MHz	2.5x	2 & 3	2 & 3	2 & 3	1 & 2
200MHz	66MHz	3x	2 & 3	2 & 3	2 & 3	1 & 2
233MHz	66MHz	3.5x	2 & 3	2 & 3	2 & 3	1 & 2
266MHz	66MHz	4x	2 & 3	2 & 3	2 & 3	1 & 2
300MHz	66MHz	4.5x	2 & 3	2 & 3	2 & 3	1 & 2
300MHz	100MHz	3x	1 & 2	1 & 2	2 & 3	1 & 2
Note: Pins designated are in the closed position.						

CPU SPEED SELECTION (AM K6 -2)					
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3

266MHz	66MHz	4x	On	Off	On
300MHz	100MHz	4.5x	Off	On	Off
333MHz	95MHz	3.5x	Off	Off	Off
350MHz	100MHz	3.5x	Off	Off	Off
380MHz	95MHz	4x	On	Off	On
400MHz	100MHz	4x	On	Off	On

CPU SPEED SELECTION (AM K6 - 2 CON'T)						
CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	JP10
266MHz	66MHz	4x	2 & 3	2 & 3	2 & 3	1 & 2
300MHz	100MHz	4.5x	1 & 2	1 & 2	2 & 3	1 & 2
333MHz	95MHz	3.5x	1 & 2	1 & 2	2 & 3	2 & 3
350MHz	100MHz	3.5x	1 & 2	1 & 2	2 & 3	1 & 2
380MHz	95MHz	4x	1 & 2	1 & 2	2 & 3	2 & 3
400MHz	100MHz	4x	1 & 2	1 & 2	2 & 3	1 & 2
Note: Pins designated are in the closed position.						

CPU SPEED SELECTION (CX 686MX/IBM 686MX)					
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
166MHz	66MHz	2x	On	Off	Off
200MHz	66MHz	2.5x	On	On	Off
200MHz	75MHz	2x	On	Off	Off
233MHz	66MHz	3x	Off	On	Off
233MHz	75MHz	2.5x	On	On	Off
233MHz	83MHz	2x	On	Off	Off
266MHz	66MHz	3.5x	Off	Off	Off
266MHz	75MHz	3x	Off	On	Off
266MHz	83MHz	2.5x	On	On	Off

266MHz	83MHz	2.5x	Off	Off	Off	

CPU SPEED SELECTION (CX 686MX/IBM 686MX CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	JP10
166MHz	66MHz	2x	2 & 3	2 & 3	2 & 3	1 & 2
200MHz	66MHz	2.5x	2 & 3	2 & 3	2 & 3	1 & 2
200MHz	75MHz	2x	1 & 2	2 & 3	2 & 3	2 & 3
233MHz	66MHz	3x	2 & 3	2 & 3	2 & 3	1 & 2
233MHz	75MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 3
233MHz	83MHz	2x	1 & 2	2 & 3	2 & 3	1 & 2
266MHz	66MHz	3.5x	2 & 3	2 & 3	2 & 3	1 & 2
266MHz	75MHz	3x	1 & 2	2 & 3	2 & 3	2 & 3
266MHz	83MHz	2.5x	1 & 2	2 & 3	2 & 3	1 & 2
Note: Pins designated are in the closed position.						

CPU SPEED SELECTION (CX MII)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
300MHz	66MHz	3.5x	Off	Off	Off
333MHz	75MHz	3.5x	Off	Off	Off
333MHz	83MHz	3x	Off	On	Off

CPU SPEED SELECTION (CX MII CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	JP10
300MHz	66MHz	3.5x	2 & 3	2 & 3	2 & 3	1 & 2
333MHz	75MHz	3.5x	1 & 2	2 & 3	2 & 3	2 & 3
333MHz	83MHz	3x	1 & 2	2 & 3	2 & 3	1 & 2
Note: Pins designated are in the closed position.						

CPU SPEED SELECTION (IBM MII)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
300MHz	66MHz	3.5x	Off	Off	Off
333MHz	75MHz	3.5x	Off	Off	Off
333MHz	83MHz	3x	Off	On	Off

CPU SPEED SELECTION (IBM MII CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	JP10
300MHz	66MHz	3.5x	2 & 3	2 & 3	2 & 3	1 & 2
333MHz	75MHz	3.5x	1 & 2	2 & 3	2 & 3	2 & 3
333MHz	83MHz	3x	1 & 2	2 & 3	2 & 3	1 & 2

Note: Pins designated are in the closed position.

CPU SPEED SELECTION (IDT C6)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
200MHz	66MHz	3x	Off	On	Off
225MHz	75MHz	3x	Off	On	Off
266MHz	66MHz	4x	On	Off	On

CPU SPEED SELECTION (IDT C6 CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	JP10
200MHz	66MHz	3x	2 & 3	2 & 3	2 & 3	1 & 2
225MHz	75MHz	3x	1 & 2	2 & 3	2 & 3	1 & 2
266MHz	66MHz	4x	2 & 3	2 & 3	2 & 3	1 & 2

Note: Pins designated are in the closed position.

CPU VOLTAGE SELECTION (SINGLE)					
Voltage	SW1/4	SW1/5	SW1/6	SW1/7	SW1/8
3.4v	Off	On	On	On	Off
3.5v	On	On	On	On	Off

CPU VOLTAGE SELECTION (DUAL)					
Voltage	SW1/4	SW1/5	SW1/6	SW1/7	SW1/8
1.3v	Off	Off	Off	Off	On
1.4v	Off	On	Off	Off	On
1.5v	Off	Off	On	Off	On
1.6v	Off	On	On	Off	On
1.7v	Off	Off	Off	On	On
1.8v	Off	On	Off	On	On
1.9v	Off	Off	On	On	On
2.0v	Off	On	On	On	On
2.1v	On	Off	Off	Off	Off
2.2v	Off	On	Off	Off	Off
2.3v	On	On	Off	Off	Off
2.4v	Off	Off	On	Off	Off
2.5v	On	Off	On	Off	Off
2.6v	Off	On	On	Off	Off
2.7v	On	On	On	Off	Off
2.8v	Off	Off	Off	On	Off
2.9v	On	Off	Off	On	Off
3.0v	Off	On	Off	On	Off
3.1v	On	On	Off	On	Off
3.2v	Off	Off	On	On	Off
3.3v	On	Off	On	On	Off