GIGA-BYTE TECHNOLOGY CO., LTD.

GA-5AA

Device Type	Mainboard
Processor	CX 6x86MX/IBM 6x86MX/CX MII/AM K6/IDT WinChip/Pentium/Pentium MMX
Processor Speed	133/166/200/225/233/266/300/333/366/380/400MHz
Chip Set	ALI
Maximum Onboard Memory	256MB (EDO & SDRAM supported)
Cache	512KB
BIOS	AMI
Dimensions	220mm x 210mm
I/O Options (backplane)	32-bit PCI slots (3), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse interface, serial ports (2), USB connector, ATX power connector, AGP slot
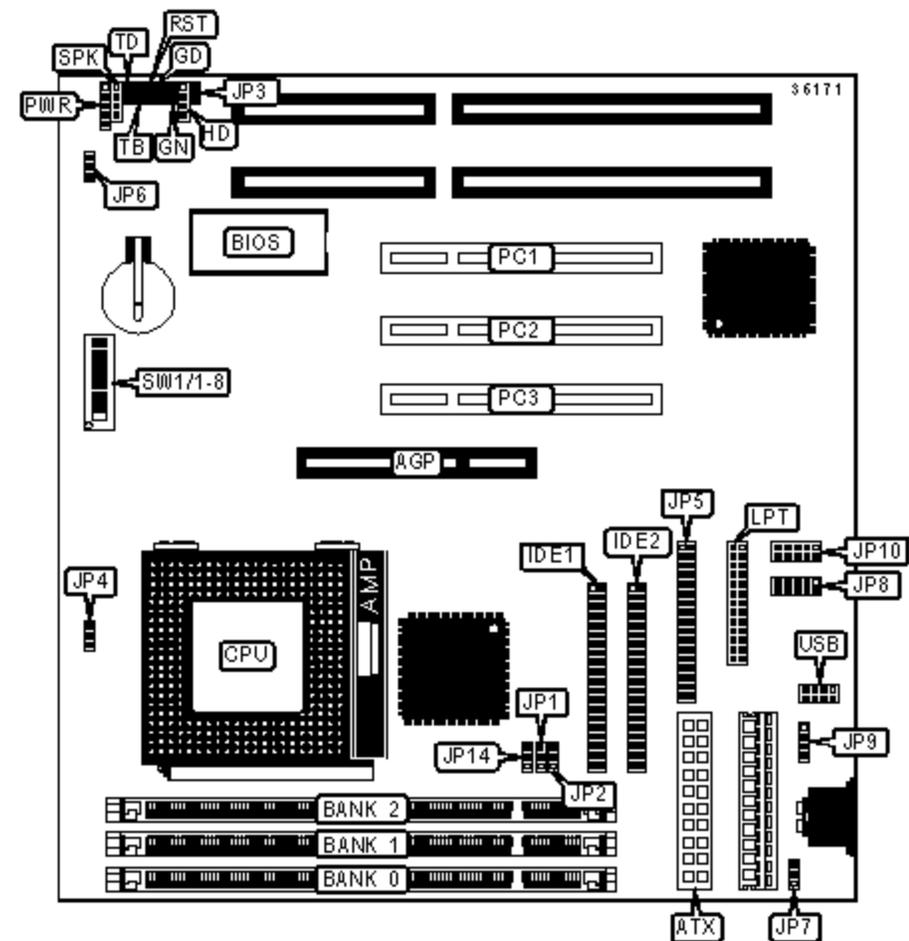
CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
AGP slot	AGP	Serial port 2	JP8
ATX power connector	ATX	PS/2 mouse interface	JP9
Green PC LED	GD	Serial port 1	JP10
Green PC connector	GN	Parallel port	LPT
IDE interface LED	HD	32-bit PCI slots	PC1 - PC3

IDE interface 1	IDE1	Power LED & keylock	PWR
IDE interface 2	IDE2	Reset switch	RST
Soft off power supply	JP3	Speaker	SPK
CPU fan power	JP4	Turbo switch	TB
Floppy drive interface	JP5	Turbo LED	TD
Wake-on-lan connector	JP6	USB connector	USB

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
Keyboard power on enabled	JP7	Pins 1 & 2 closed
Keyboard power on disabled	JP7	Pins 2 & 3 closed

DIMM CONFIGURATION			
Size	**Bank 0**	**Bank 1**	**Bank 2**
16MB	(1) 2M x 64	None	None
32MB	(1) 4M x 64	None	None
32MB	(1) 2M x 64	(1) 2M x 64	None
48MB	(1) 4M x 64	(1) 2M x 64	None
48MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
64MB	(1) 8M x 64	None	None
64MB	(1) 4M x 64	(1) 4M x 64	None
64MB	(1) 4M x 64	(1) 2M x 64	(1) 2M x 64
80MB	(1) 8M x 64	(1) 2M x 64	None
96MB	(1) 8M x 64	(1) 4M x 64	None
96MB	(1) 8M x 64	(1) 2M x 64	(1) 2M 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) 8M x 64	None
128MB	(1) 8M x 64	(1) 4M x 64	(1) 4M 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
160MB	(1) 16M x 64	(1) 4M x 64	None
160MB	(1) 16M x 64	(1) 2M x 64	(1) 2M x 64
160MB	(1) 8M x 64	(1) 8M x 64	(1) 4M x 64
176MB	(1) 16M x 64	(1) 4M x 64	(1) 2M x 64
192MB	(1) 16M x 64	(1) 8M x 64	None
192MB	(1) 16M x 64	(1) 4M x 64	(1) 4M 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) 16M x 64	None
256MB	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64

CPU SPEED SELECTION (INTEL)						
CPU speed	Clock Speed	Multiplier	SW/1	SW/2	SW/3	SW/4
133MHz	66MHz	2x	Off	On	Off	Off
166MHz	66MHz	2.5x	Off	On	On	Off

CPU SPEED SELECTION (INTEL CON'T)						
CPU speed	Clock Speed	Multiplier	SW/5	SW/6	SW/7	SW/8
133MHz	66MHz	2x	Off	Off	On	Off
166MHz	66MHz	2.5x	Off	Off	On	Off

CPU SPEED SELECTION (INTEL CON'T)					
CPU speed	Clock Speed	Multiplier	JP1	JP2	JP14
133MHz	66MHz	2x	2 & 3	2 & 3	2 & 3

133MHz	66MHz	2x	2 & 3	2 & 3	2 & 3
166MHz	66MHz	2.5x	2 & 3	2 & 3	2 & 3
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (INTEL MMX)						
CPU speed	**Clock Speed**	**Multiplier**	**SW/1**	**SW/2**	**SW/3**	**SW/4**
166MHz	66MHz	2.5x	Off	On	On	Off
200MHz	66MHz	3x	Off	Off	On	Off
233MHz	66MHz	3.5x	Off	Off	Off	Off

CPU SPEED SELECTION (INTEL MMX CON'T)						
CPU speed	**Clock Speed**	**Multiplier**	**SW/5**	**SW/6**	**SW/7**	**SW/8**
166MHz	66MHz	2.5x	Off	Off	On	Off
200MHz	66MHz	3x	Off	Off	On	Off
233MHz	66MHz	3.5x	Off	Off	On	Off

CPU SPEED SELECTION (INTEL MMX CON'T)					
CPU speed	**Clock Speed**	**Multiplier**	**JP1**	**JP2**	**JP14**
166MHz	66MHz	2.5x	2 & 3	2 & 3	2& 3
200MHz	66MHz	3x	2 & 3	2 & 3	2 & 3
233MHz	66MHz	3.5x	2 & 3	2 & 3	2 & 3
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (AM K6)						
CPU speed	**Clock speed**	**Multiplier**	**SW/1**	**SW/2**	**SW/3**	**SW/4**
166MHz	66MHz	2.5x	Off	On	On	Off
200MHz	66MHz	3x	Off	Off	On	Off

233MHz	66MHz	5.5x	Off	Off	Off	On
233MHz	66MHz	3.5x	Off	Off	Off	Off
266MHz	66MHz	4x	Off	On	Off	Off
300MHz	66MHz	4.5x	Off	On	On	Off
300MHz	100MHz	3x	Off	Off	On	Off

CPU SPEED SELECTION (AM K6 CON'T)						
CPU speed	Clock speed	Multiplier	SW/5	SW/6	SW/7	SW/8
166MHz	66MHz	2.5x	Off	On	On	Off
200MHz	66MHz	3x	Off	On	On	Off
233MHz	66MHz	5.5x	Off	Off	On	On
233MHz	66MHz	3.5x	On	Off	Off	Off
266MHz	66MHz	4x	On	Off	Off	On
300MHz	66MHz	4.5x	On	Off	Off	On
300MHz	100MHz	3x	On	Off	Off	Off

CPU SPEED SELECTION (AM K6 CON'T)					
CPU speed	Clock speed	Multiplier	JP1	JP2	JP14
166MHz	66MHz	2.5x	2 & 3	2 & 3	2 & 3
200MHz	66MHz	3x	2 & 3	2 & 3	2 & 3
233MHz	66MHz	5.5x	2 & 3	2 & 3	2 & 3
233MHz	66MHz	3.5x	2 & 3	2 & 3	2 & 3
266MHz	66MHz	4x	2 & 3	2 & 3	2 & 3
300MHz	66MHz	4.5x	2 & 3	2 & 3	2 & 3
300MHz	100MHz	3x	1 & 2	1 & 2	2 & 3
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (AM K6-2)						
CPU speed	**Clock speed**	**Multiplier**	**SW/1**	**SW/2**	**SW/3**	**SW/4**
266MHz	66MHz	4x	Off	On	Off	Off
300MHz	100MHz	3x	Off	Off	On	Off
333MHz	66MHz	5x	Off	Off	On	Off
333MHz	95MHz	3.5x	On	Off	Off	Off
350MHz	100MHz	3.5x	Off	Off	Off	Off
366MHz	66MHz	5.5x	Off	Off	Off	Off
380MHz	95MHz	4x	On	On	Off	Off
400MHz	100MHz	4x	Off	On	Off	Off
450MHz	100MHz	4.5x	Off	On	On	Off

CPU SPEED SELECTION (AM K6-2 CON'T)						
CPU speed	**Clock speed**	**Multiplier**	**SW/5**	**SW/6**	**SW/7**	**SW/8**
266MHz	66MHz	4x	On	Off	Off	On
300MHz	100MHz	3x	On	Off	Off	Off
333MHz	66MHz	5x	On	Off	Off	On
333MHz	95MHz	3.5x	On	Off	Off	Off
350MHz	100MHz	3.5x	On	Off	Off	Off
366MHz	66MHz	5.5x	On	Off	Off	On
380MHz	95MHz	4x	On	Off	Off	On
400MHz	100MHz	4x	On	Off	Off	On
450MHz	100MHz	4.5x	On	Off	Off	On

CPU SPEED SELECTION (AM K6-2 CON'T)					
CPU speed	**Clock speed**	**Multiplier**	**JP1**	**JP2**	**JP14**
266MHz	66MHz	4x	2 & 3	2 & 3	2 & 3
300MHz	100MHz	3x	1 & 2	1 & 2	2 & 3

333MHz	66MHz	5x	2 & 3	2 & 3	2 & 3
333MHz	95MHz	3.5x	1 & 2	1 & 2	2 & 3
350MHz	100MHz	3.5x	1 & 2	1 & 2	2 & 3
366MHz	66MHz	5.5x	2 & 3	2 & 3	2 & 3
380MHz	95MHz	4x	1 & 2	1 & 2	2 & 3
400MHz	100MHz	4x	1 & 2	1 & 2	2 & 3
450MHz	100MHz	4.5x	1 & 2	1 & 2	2 & 3
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (AM K6-3)						
CPU speed	Clock speed	Multiplier	SW/1	SW/2	SW/3	SW/4
400MHz	100MHz	4x	Off	On	Off	Off
450MHz	100MHz	4.5x	Off	On	On	Off

CPU SPEED SELECTION (AM K6-3 CON'T)						
CPU speed	Clock speed	Multiplier	SW/5	SW/6	SW/7	SW/8
400MHz	100MHz	4x	On	Off	Off	On
450MHz	100MHz	4.5x	On	Off	Off	On

CPU SPEED SELECTION (AM K6-3 CON'T)					
CPU speed	Clock speed	Multiplier	JP1	JP2	JP14
400MHz	100MHz	4x	1 & 2	1 & 2	2 & 3
450MHz	100MHz	4.5x	1 & 2	1 & 2	2 & 3
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (IBM/CX 6X86MX)						
CPU speed	Clock speed	Multiplier	SW/1	SW/2	SW/3	SW/4

CPU speed	Clock speed	Multiplier	SW/1	SW/2	SW/3	SW/4
166MHz	66MHz	2x	Off	On	Off	Off
200MHz	66MHz	2.5x	Off	On	On	Off
200MHz	75MHz	2x	On	On	Off	Off
233MHz	66MHz	3x	Off	Off	On	Off
233MHz	75MHz	2.5x	On	On	On	Off
233MHz	83MHz	2x	Off	On	Off	Off
266MHz	66MHz	3.5x	Off	Off	Off	Off
266MHz	75MHz	3x	On	Off	On	Off
266MHz	83MHz	2.5x	Off	On	On	Off

CPU SPEED SELECTION (IBM/CX 6X86MX CON'T)						
CPU speed	Clock speed	Multiplier	SW/5	SW/6	SW/7	SW/8
166MHz	66MHz	2x	Off	On	On	Off
200MHz	66MHz	2.5x	Off	On	On	Off
200MHz	75MHz	2x	Off	On	On	Off
233MHz	66MHz	3x	Off	On	On	Off
233MHz	75MHz	2.5x	Off	On	On	Off
233MHz	83MHz	2x	Off	On	On	Off
266MHz	66MHz	3.5x	Off	On	On	Off
266MHz	75MHz	3x	Off	On	On	Off
266MHz	83MHz	2.5x	Off	On	On	Off

CPU SPEED SELECTION (IBM/CX 6X86MX CON'T)						
CPU speed	Clock speed	Multiplier	JP1	JP2	JP14	
166MHz	66MHz	2x	2 & 3	2 & 3	2 & 3	
200MHz	66Mhz	2.5x	2 & 3	2 & 3	2 & 3	
200MHz	75MHz	2x	2 & 3	1 & 2	2 & 3	

CPU speed	Clock speed	Multiplier			
233MHz	66MHz	3x	2 & 3	2 & 3	2 & 3
233MHz	75MHz	2.5x	2 & 3	1 & 2	2 & 3
233MHz	83MHz	2x	2 & 3	1 & 2	2 & 3
266MHz	66MHz	3.5x	2 & 3	2 & 3	2 & 3
266MHz	75MHz	3x	2 & 3	1 & 2	2 & 3
266MHz	83MHz	2.5x	2 & 3	1 & 2	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX MII)						
CPU speed	Clock speed	Multiplier	SW/1	SW/2	SW/3	SW/4
300MHz	66MHz	3.5x	Off	Off	Off	Off
333MHz	66MHz	4x	Off	On	Off	Off
333MHz	83MHz	3x	Off	Off	On	Off
333MHz	75MHz	3.5x	On	Off	Off	Off
333MHz	100MHz	2.5x	Off	On	On	Off
366MHz	75MHz	4x	On	On	Off	Off
366MHz	83MHz	3.5x	Off	Off	Off	Off
366MHz	100MHz	3x	Off	Off	On	Off
400MHz	100MHz	3.5x	Off	Off	Off	Off

CPU SPEED SELECTION (CX MII CON'T)						
CPU speed	Clock speed	Multiplier	SW/5	SW/6	SW/7	SW/8
300MHz	66MHz	3.5x	Off	On	On	Off
333MHz	66MHz	4x	Off	On	On	On
333MHz	83MHz	3x	Off	On	On	Off
333MHz	75MHz	3.5x	Off	On	On	Off
333MHz	100MHz	2.5x	Off	On	On	Off
366MHz	75MHz	4x	Off	On	On	On

366MHz	75MHz	4x	Off	Off	On	On
366MHz	83MHz	3.5x	Off	On	On	Off
366MHz	100MHz	3x	Off	On	On	Off
400MHz	100MHz	3.5x	Off	On	On	Off

CPU SPEED SELECTION (CX MII CON'T)					
CPU speed	**Clock speed**	**Multiplier**	**JP1**	**JP2**	**JP14**
300MHz	66MHz	3.5x	2 & 3	2 & 3	2 & 3
333MHz	66Mhz	4x	2 & 3	2 & 3	2 & 3
333MHz	83MHz	3x	2 & 3	1 & 2	2 & 3
333MHz	75MHz	3.5x	2 & 3	1 & 2	2 & 3
333MHz	100MHz	2.5x	1 & 2	1 & 2	2 & 3
366MHz	75MHz	4x	2 & 3	1 & 2	2 & 3
366MHz	83MHz	3.5x	2 & 3	1 & 2	2 & 3
366MHz	100MHz	3x	1 & 2	1 & 2	2 & 3
400MHz	100MHz	3.5x	1 & 2	1 & 2	2 & 3
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (IDT)						
CPU speed	**Clock speed**	**Multiplier**	**SW/1**	**SW/2**	**SW/3**	**SW/4**
200MHz	66MHz	3x	Off	Off	On	On
200MHz	100MHz	2x	Off	On	Off	On
225MHz	75MHz	3x	On	Off	On	On
233MHz	66MHz	3.5x	Off	Off	Off	On
233MHz	100MHz	2.33x	Off	Off	On	On
266MHz	66MHz	4x	Off	On	Off	On
266MHz	100MHz	2.66x	Off	Off	Off	On

CPU SPEED SELECTION (IDT CON'T)						
CPU speed	Clock speed	Multiplier	SW/5	SW/6	SW/7	SW/8
200MHz	66MHz	3x	On	On	On	Off
200MHz	100MHz	2x	On	On	On	Off
225MHz	75MHz	3x	On	On	On	Off
233MHz	66MHz	3.5x	On	On	On	Off
233MHz	100MHz	2.33x	On	On	On	On
266MHz	66MHz	4x	On	On	On	On
266MHz	100MHz	2.66x	On	On	On	On

CPU SPEED SELECTION (IDT CON'T)					
CPU speed	Clock speed	Multiplier	JP1	JP2	JP14
200MHz	66MHz	3x	2 & 3	2 & 3	2 & 3
200MHz	100MHz	2x	1 & 2	1 & 2	2 & 3
225MHz	75MHz	3x	2 & 3	1 & 2	2 & 3
233MHz	66MHz	3.5x	2 & 3	2 & 3	2 & 3
233MHz	100MHz	2.33x	1 & 2	1 & 2	2 & 3
266MHz	66MHz	3.5x	2 & 3	2 & 3	2 & 3
266MHz	100MHz	2.66x	1 & 2	1 & 2	2 & 3
Note: Pins designated should be in the closed position.					