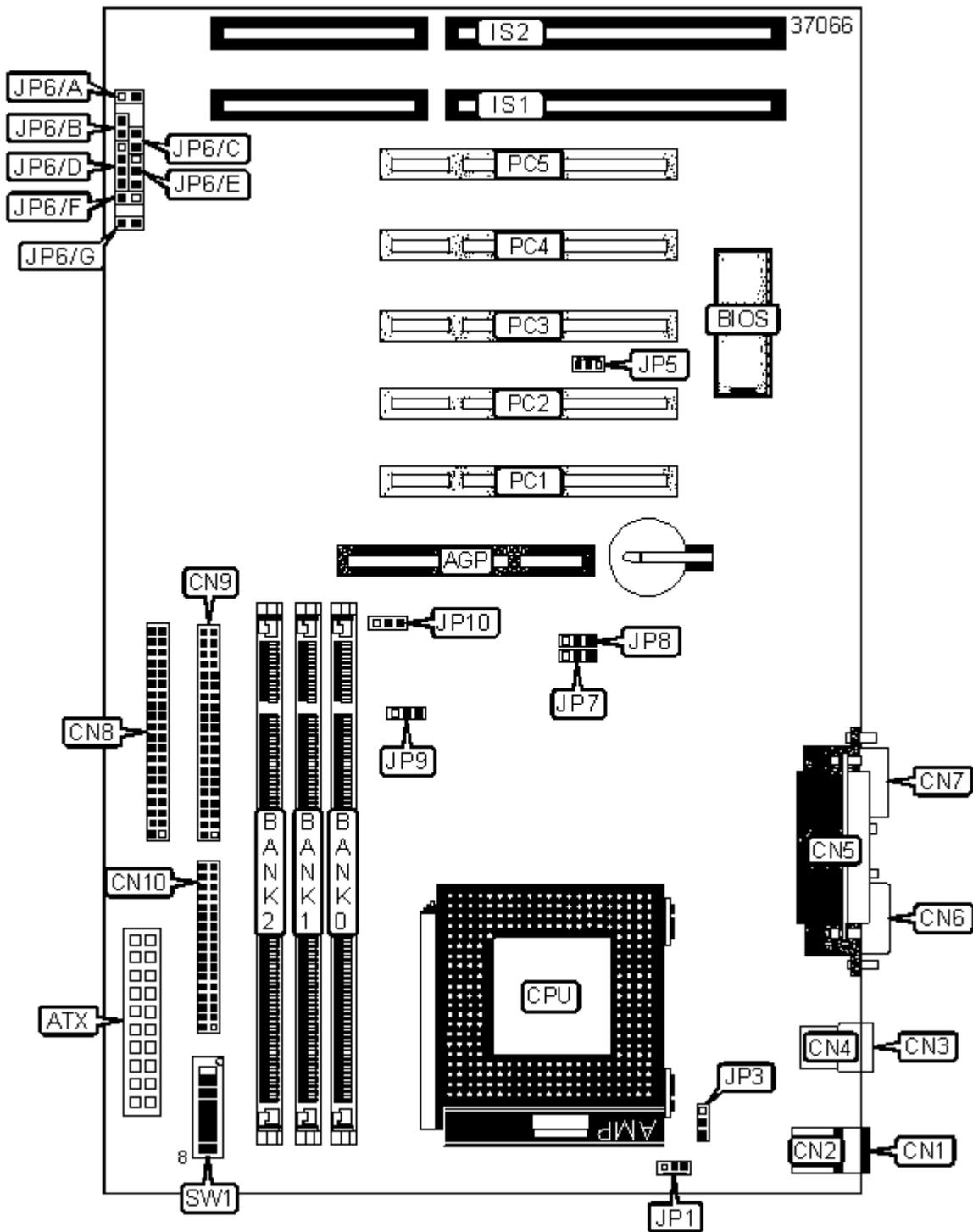


GIGA-BYTE TECHNOLOGY CO., LTD.

GA-5AX (REV. 4.1)

Device Type	Mainboard
Processor	CX 6x86MX/CX MIII/IBM 6x86MX/AM K6/AM K6-2/K6-III/IDT Winchip 2/IDT Winchip 3/Rise MP6/Pentium/Pentium MMX
Processor Speed	133/166/200/225/233/266/300/333/350/380/400/450/475/500/550MHz
Chip Set	ALI
Maximum Onboard Memory	768MB (EDO & SDRAM supported)
Cache	512KB
BIOS	Award
Dimensions	305mm x 185mm
I/O Options	16-bit ISA slots (2), 32-bit PCI slots (5), AGP slot, ATX power connector, floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 keyboard port, PS/2 mouse port, serial ports (2), USB ports (2), Wake-on-LAN connector



CONNECTIONS

Purpose	Location	Purpose	Location
AGP slot	AGP	16-bit ISA slots	IS1 - IS2
ATX power connector	ATX	CPU fan power	JP1
PS/2 keyboard port	CN1	Wake-on-LAN connector	JP5
PS/2 mouse port	CN2	Green LED	JP6/A
USB port 1	CN3	Reset switch	JP6/B

USB port 2	CN4	Power switch	JP6/C
Parallel port	CN5	Speaker	JP6/D
Serial port 2	CN6	Power LED	JP6/E
Serial port 1	CN7	IDE interface LED	JP6/F
IDE interface 1	CN8	Green PC switch	JP6/G
IDE interface 2	CN9	32-bit PCI slots	PC1 - PC5
Floppy drive interface	CN10		

USER CONFIGURABLE SETTINGS

Function		Label	Position
»	Power-on by keyboard disabled	JP3	Pins 2 & 3 closed
	Power-on by keyboard 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
32MB	(1) 2M x 64	(1) 2M x 64	None
32MB	(1) 4M x 64	None	None
32MB	(1) 2M x 64	(1) 1M x 64	(1) 1M x 64
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
64MB	(1) 4M x 64	(1) 4M x 64	None
64MB	(1) 8M x 64	None	None
64MB	(1) 4M x 64	(1) 2M x 64	(1) 2M x 64
80MB	(1) 8M x 64	(1) 1M 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
128MB	(1) 8M x 64	(1) 8M x 64	None
128MB	(1) 16M x 64	None	None
128MB	(1) 8M x 64	(1) 4M x 64	(1) 4M x 64
144MB	(1) 16M x 64	(1) 1M x 64	(1) 1M x 64
160MB	(1) 16M x 64	(1) 2M 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
256MB	(1) 16M x 64	(1) 16M x 64	None
256MB	(1) 32M x 64	None	None
256MB	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64
272MB	(1) 32M x 64	(1) 1M x 64	(1) 1M x 64
288MB	(1) 32M x 64	(1) 2M x 64	(1) 2M x 64
320MB	(1) 32M x 64	(1) 4M x 64	(1) 4M x 64
384MB	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64
384MB	(1) 32M x 64	(1) 8M x 64	(1) 8M x 64
512MB	(1) 32M x 64	(1) 32M x 64	None
512MB	(1) 32M x 64	(1) 16M x 64	(1) 16M x 64
768MB	(1) 32M x 64	(1) 32M x 64	(1) 32M x 64

Note: Board supports EDO & SDRAM memory.

CPU SPEED SELECTION (CX 6x86MX)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
166MHz	66MHz	2.0	On	Off	Off
200MHz	66MHz	2.5x	On	On	Off
200MHz	75MHz	2.0x	On	Off	Off
233MHz	66MHz	3.0x	Off	On	Off
233MHz	75MHz	2.5x	On	On	Off
233MHz	83MHz	2.0x	On	Off	Off

266MHz	66MHz	3.5x	Off	Off	Off
266MHz	75MHz	3.0x	Off	On	Off
266MHz	83MHz	2.5x	On	On	Off

CPU SPEED SELECTION (CX 6X86MX, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	JP10
166MHz	66MHz	2.0	2 & 3	2 & 3	2 & 3	1 & 2
200MHz	66MHz	2.5x	2 & 3	2 & 3	2 & 3	1 & 2
200MHz	75MHz	2.0x	1 & 2	2 & 3	2 & 3	2 & 3
233MHz	66MHz	3.0x	2 & 3	2 & 3	2 & 3	1 & 2
233MHz	75MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 3
233MHz	83MHz	2.0x	1 & 2	2 & 3	2 & 3	1 & 2
266MHz	66MHz	3.5x	2 & 3	2 & 3	2 & 3	1 & 2
266MHz	75MHz	3.0x	1 & 2	2 & 3	2 & 3	2 & 3
266MHz	83MHz	2.5x	1 & 2	2 & 3	2 & 3	1 & 2

Note: Designated pins should be 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	66MHz	4.0x	On	Off	On
333MHz	75MHz	3.5x	Off	Off	Off
333MHz	83MHz	3.0x	Off	On	Off
366MHz	100MHz	2.5x	On	On	Off
400MHz	100MHz	3.0x	Off	Off	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	66MHz	4.0x	2 & 3	2 & 3	2 & 3	1 & 2
333MHz	75MHz	3.5x	1 & 2	2 & 3	2 & 3	2 & 3
333MHz	83MHz	3.0x	1 & 2	2 & 3	2 & 3	1 & 2
366MHz	100MHz	2.5x	1 & 2	1 & 2	2 & 3	1 & 2
400MHz	100MHz	3.0x	1 & 2	1 & 2	2 & 3	1 & 2

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (IBM 6x86MX)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
166MHz	66MHz	2.0	On	Off	Off
200MHz	66MHz	2.5x	On	On	Off
200MHz	75MHz	2.0x	On	Off	Off
233MHz	66MHz	3.0x	Off	On	Off
233MHz	75MHz	2.5x	On	On	Off
233MHz	83MHz	2.0x	On	Off	Off
266MHz	66MHz	3.5x	Off	Off	Off
266MHz	75MHz	3.0x	Off	On	Off
266MHz	83MHz	2.5x	On	On	Off

CPU SPEED SELECTION (IBM 6X86MX, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	JP10
166MHz	66MHz	2.0	2 & 3	2 & 3	2 & 3	1 & 2
200MHz	66MHz	2.5x	2 & 3	2 & 3	2 & 3	1 & 2
200MHz	75MHz	2.0x	1 & 2	2 & 3	2 & 3	2 & 3
233MHz	66MHz	3.0x	2 & 3	2 & 3	2 & 3	1 & 2
233MHz	75MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 3
233MHz	83MHz	2.0x	1 & 2	2 & 3	2 & 3	1 & 2
266MHz	66MHz	3.5x	2 & 3	2 & 3	2 & 3	1 & 2
266MHz	75MHz	3.0x	1 & 2	2 & 3	2 & 3	2 & 3

266MHz	83MHz	2.5x	1 & 2	2 & 3	2 & 3	1 & 2
Note: Designated pins should be 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	3.0x	Off	On	Off	
233MHz	66MHz	3.5x	Off	Off	Off	
266MHz	66MHz	4.0x	On	Off	On	
300MHz	66MHz	4.5x	On	On	On	
» 300MHz	100MHz	3.0x	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	3.0x	2 & 3	2 & 3	2 & 3	1 & 2	
233MHz	66MHz	3.5x	2 & 3	2 & 3	2 & 3	1 & 2	
266MHz	66MHz	4.0x	2 & 3	2 & 3	2 & 3	1 & 2	
300MHz	66MHz	4.5x	2 & 3	2 & 3	2 & 3	1 & 2	
» 300MHz	100MHz	3.0x	1 & 2	1 & 2	2 & 3	1 & 2	
Note: Designated pins should be in the closed position.							

CPU SPEED SELECTION (AM K6-2)						
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	
266MHz	66MHz	4.0x	On	Off	On	
» 300MHz	100MHz	3.0x	Off	On	Off	
333MHz	66MHz	5.0x	Off	On	On	
333MHz	95MHz	3.5x	Off	Off	Off	

	350MHz	100MHz	3.5x	Off	Off	Off
	366MHz	66MHz	5.5x	Off	Off	On
	380MHz	95MHz	4.0x	On	Off	On
	400MHz	100MHz	4.0x	On	Off	On
	450MHz	100MHz	4.5x	On	On	On
	475MHz	95MHz	5.0x	Off	On	On
	500MHz	100MHz	5.0x	Off	On	On
	550MHz	100MHz	5.5x	Off	Off	On

CPU SPEED SELECTION (AM K6-2, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	JP10
266MHz	66MHz	4.0x	2 & 3	2 & 3	2 & 3	1 & 2
» 300MHz	100MHz	3.0x	1 & 2	1 & 2	2 & 3	1 & 2
333MHz	66MHz	5.0x	2 & 3	2 & 3	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
366MHz	66MHz	5.5x	2 & 3	2 & 3	2 & 3	1 & 2
380MHz	95MHz	4.0x	1 & 2	1 & 2	2 & 3	2 & 3
400MHz	100MHz	4.0x	1 & 2	1 & 2	2 & 3	1 & 2
450MHz	100MHz	4.5x	1 & 2	1 & 2	2 & 3	1 & 2
475MHz	95MHz	5.0x	1 & 2	1 & 2	2 & 3	2 & 3
500MHz	100MHz	5.0x	1 & 2	1 & 2	2 & 3	1 & 2
550MHz	100MHz	5.5x	1 & 2	1 & 2	2 & 3	1 & 2

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (AM K6-III)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
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400MHz	100MHz	4.0x	On	Off	On
450MHz	100MHz	4.5x	On	On	On
475MHz	95MHz	5.0x	Off	On	On
500MHz	100MHz	5.0x	Off	On	On
550MHz	100MHz	5.5x	Off	Off	On

CPU SPEED SELECTION (AM K6-III, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	JP10
400MHz	100MHz	4.0x	1 & 2	1 & 2	2 & 3	1 & 2
450MHz	100MHz	4.5x	1 & 2	1 & 2	2 & 3	1 & 2
475MHz	95MHz	5.0x	1 & 2	1 & 2	2 & 3	2 & 3
500MHz	100MHz	5.0x	1 & 2	1 & 2	2 & 3	1 & 2
550MHz	100MHz	5.5x	1 & 2	1 & 2	2 & 3	1 & 2

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (IDT WINCHIP2)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
200MHz	66MHz	3.0x	Off	On	Off
200MHz	100MHz	2.0x	On	Off	Off
225MHz	75MHz	3.0x	Off	On	Off
233MHz	66MHz	3.5x	Off	Off	Off
233MHz	100MHz	2.33x	Off	On	On
266MHz	66MHz	4.0x	On	Off	On
266MHz	100MHz	2.66x	Off	Off	On
300MHz	100MHz	2.5x	On	On	Off

CPU SPEED SELECTION (IDT WINCHIP2, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	JP10
200MHz	66MHz	3.0x	2 & 3	2 & 3	2 & 3	1 & 2

200MHz	100MHz	2.0x	1 & 2	1 & 2	2 & 3	1 & 2
225MHz	75MHz	3.0x	1 & 2	2 & 3	2 & 3	2 & 3
233MHz	66MHz	3.5x	2 & 3	2 & 3	2 & 3	1 & 2
233MHz	100MHz	2.33x	1 & 2	1 & 2	2 & 3	1 & 2
266MHz	66MHz	4.0x	2 & 3	2 & 3	2 & 3	1 & 2
266MHz	100MHz	2.66x	1 & 2	1 & 2	2 & 3	1 & 2
300MHz	100MHz	2.5x	1 & 2	1 & 2	2 & 3	1 & 2

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (IDT WINCHIP3)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
266MHz	100MHz	2.33x	Off	On	On

CPU SPEED SELECTION (IDT WINCHIP3, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	JP10
266MHz	100MHz	2.33x	1 & 2	1 & 2	2 & 3	1 & 2

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (RISE MP6)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
266MHz	100MHz	2.0x	On	Off	Off

CPU SPEED SELECTION (RISE MP6, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	JP10
266MHz	100MHz	2.0x	1 & 2	1 & 2	2 & 3	1 & 2

Note: Designated pins should be in the closed position.

CPU SPEED SELECTION (PENTIUM)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3
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133MHz	66MHz	2.0x	On	Off	Off
166MHz	66MHz	2.5x	On	On	Off
200MHz	66MHz	3.0x	Off	On	Off

CPU SPEED SELECTION (PENTIUM, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	JP10
133MHz	66MHz	2.0x	2 & 3	2 & 3	2 & 3	1 & 2
166MHz	66MHz	2.5x	2 & 3	2 & 3	2 & 3	1 & 2
200MHz	66MHz	3.0x	2 & 3	2 & 3	2 & 3	1 & 2

Note: Designated pins should be 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	3.0x	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	3.0x	2 & 3	2 & 3	2 & 3	1 & 2
233MHz	66MHz	3.5x	2 & 3	2 & 3	2 & 3	1 & 2

Note: Designated pins should be in the closed position.

VCORE SELECTION

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
	3.4V	Off	On	On	On	Off
	3.5V	On	On	On	On	Off