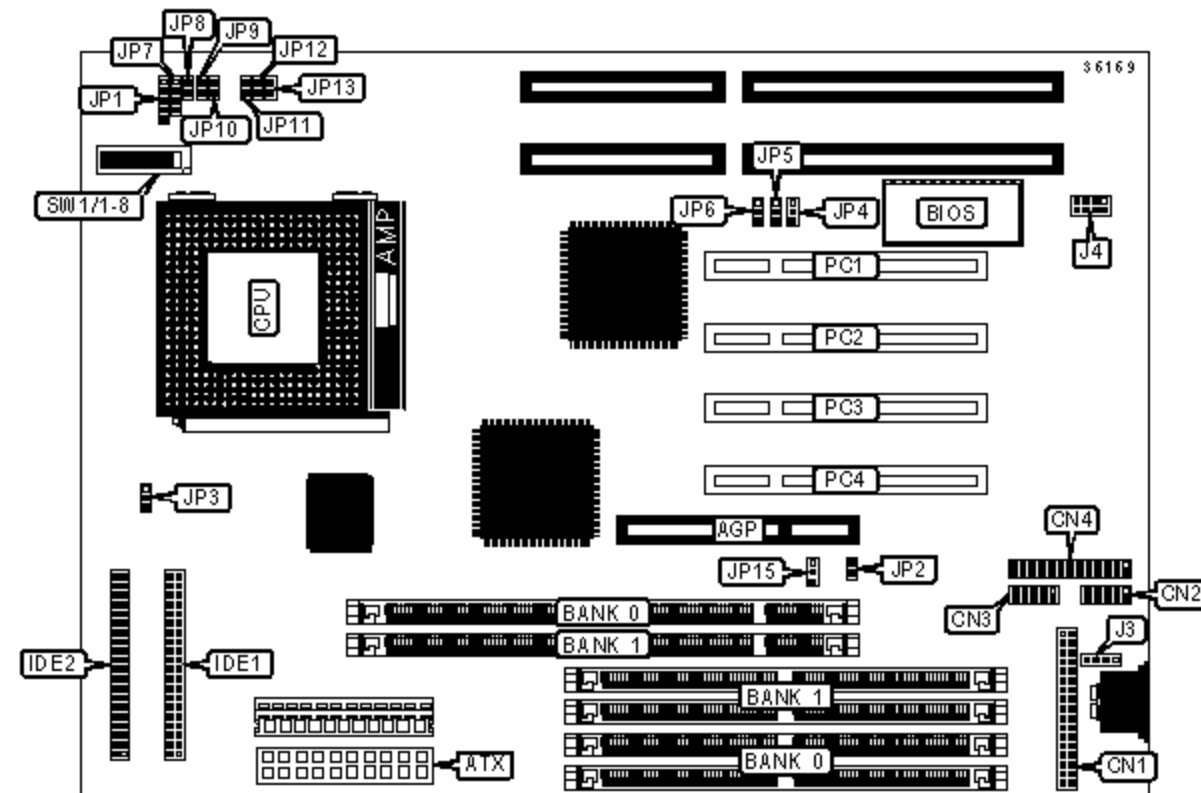


GIGA-BYTE TECHNOLOGY CO., LTD.

GA-586SG

Device Type	Mainboard
Processor	CX 6X86/IBM 6X86/CX 6X86L/IBM 6X86L/CX 6X86MX/IBM 6X86MX/AM K5/AM K6/Pentium/Pentium MMX
Processor Speed	90/100/120/133/150/166/180/200/233/266MHz
Chip Set	SIS
Maximum Onboard Memory	768MB (EDO & SDRAM supported)
Cache	512KB
BIOS	Award
Dimensions	220mm x 250mm
I/O Options (backplane)	32-bit PCI slots (4), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse interface, serial ports (2), USB connectors (2), ATX power connector, AGP slot



CONNECTIONS

Purpose	Location	Purpose	Location
AGP slot	AGP	CPU fan power	JP3
ATX power connector	ATX	Speaker	JP7
Floppy drive interface	CN1	Turbo LED connector	JP8
Serial port 1	CN2	Turbo switch	JP9
Serial port 2	CN3	Reset switch	JP10
	CN4		JP11

Parallel port		Green PC connector	
IDE interface 1	IDE1	IDE interface LED	JP12
IDE interface 2	IDE2	Soft off power supply	JP13
PS/2 mouse interface	J3	Wake-on-LAN connector	JP15
USB connector	J4	PCI expansion ports	PC1 - PC4
Power LED & keylock	JP1		

USER CONFIGURABLE SETTINGS

Function		Label	Position
	Keyboard power-on disabled	JP2	Open
	Keyboard power-on enabled	JP2	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
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

SIMM CONFIGURATION

Size	Bank 0	Bank 1
8MB	(2) 1M x 36	None
16MB	(2) 2M x 36	None
16MB	(2) 1M x 36	(2) 1M x 36
24MB	(2) 2M x 36	(2) 1M x 36
32MB	(2) 4M x 36	None
32MB	(2) 2M x 36	(2) 2M x 36
40MB	(2) 4M x 36	(2) 1M x 36
48MB	(2) 4M x 36	(2) 2M x 36
64MB	(2) 8M x 36	None
64MB	(2) 4M x 36	(2) 4M x 36
72MB	(2) 8M x 36	(2) 1M x 36
80MB	(2) 8M x 36	(2) 2M x 36
96MB	(2) 8M x 36	(2) 4M x 36
128MB	(2) 8M x 36	(2) 8M x 36
128MB	(2) 16M x 36	None
136MB	(2) 16M x 36	(2) 1M x 36
144MB	(2) 16M x 36	(2) 2M x 36
160MB	(2) 16M x 36	(2) 4M x 36

192MB	(2) 16M x 36	(2) 8M x 36
256MB	(2) 16M x 36	(2) 16M x 36
256MB	(2) 32M x 36	None
264MB	(2) 32M x 36	(2) 1M x 36
272MB	(2) 32M x 36	(2) 2M x 36
288MB	(2) 32M x 36	(2) 4M x 36
320MB	(2) 32M x 36	(2) 8M x 36
384MB	(2) 32M x 36	(2) 16M x 36
512MB	(2) 32M x 36	(2) 32M x 36

Note: Board accepts EDO memory.

CPU SPEED SELECTION (INTEL)

Speed	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6	SW1/7	SW1/8
90MHz	On	Off	Off	Off	Off	Off	On	Off
100MHz	Off	Off	Off	Off	Off	Off	On	Off
120MHz	On	On	Off	Off	Off	Off	On	Off
133MHz	Off	On	Off	Off	Off	Off	On	Off
150MHz	On	On	On	Off	Off	Off	On	Off
166MHz	Off	On	On	Off	Off	Off	On	Off
180MHz	On	Off	On	Off	Off	Off	On	Off
200MHz	Off	Off	On	Off	Off	Off	On	Off

Note: PC54CT and PC54CTB models also use these settings.

CPU SPEED SELECTION (INTEL CON'T)

Speed	JP4	JP5	JP6
90MHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
100MHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
120MHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed

133MHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
150MHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
166MHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
180MHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
200MHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed

Note: PC54CT and PC54CTB models also use these settings.

CPU SPEED SELECTION (INTEL MMX)

Speed	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6	SW1/7	SW1/8
150MHz	On	On	On	Off	Off	Off	On	Off
166MHz	Off	On	On	Off	Off	Off	On	Off
200MHz	Off	Off	On	Off	Off	Off	On	Off
233MHz	Off	Off	Off	Off	Off	Off	On	Off

CPU SPEED SELECTION (INTEL MMX CON'T)

Speed	JP4	JP5	JP6
150MHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
166MHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
200MHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
233MHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed

CPU SPEED SELECTION (AM K5)

Speed	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6	SW1/7	SW1/8
133MHz	Off	On	Off	Off	Off	Off	On	Off
166MHz	Off	On	On	Off	Off	Off	On	Off

CPU SPEED SELECTION (AM K5 CON'T)

Speed	JP4	JP5	JP6
133MHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
166MHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed

CPU SPEED SELECTION (AM K6)

Speed	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6	SW1/7	SW1/8
160MHz	Off	On	On	Off	Off	On	On	Off
180MHz	On	Off	On	Off	Off	On	On	Off
200MHz	Off	Off	On	Off	Off	On	On	Off
233MHz	Off	Off	Off	On	Off	Off	On	Off

CPU SPEED SELECTION (AM K6 CON'T)

Speed	JP4	JP5	JP6
160MHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
180MHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
200MHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
233MHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed

CPU SPEED SELECTION (CX/IBM 6X86)

Speed	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6	SW1/7	SW1/8
120MHz	On	On	Off	Off	Off	Off	On	Off
133MHz	Off	On	Off	Off	Off	Off	On	Off
150MHz	Off	On	Off	Off	Off	Off	On	Off

CPU SPEED SELECTION (CX/IBM 6X86 CON'T)

Speed	JP4	JP5	JP6
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120MHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
133MHz	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
150MHz	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 1 & 2 closed

CPU SPEED SELECTION (CX/IBM 6X86L)								
Speed	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6	SW1/7	SW1/8
PR150+	On	On	Off	Off	Off	Off	On	Off
PR166+	Off	On	Off	Off	Off	Off	On	Off
PR200+	Off	On	Off	Off	Off	Off	On	Off

CPU SPEED SELECTION (CX/IBM 6X86L CONT)			
Speed	JP4	JP5	JP6
PR150+	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
PR166+	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
PR200+	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 1 & 2 closed

CPU SPEED SELECTION (CX/IBM 6X86MX)						
Speed	Clock Speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4
PR150	60MHz	2x	On	On	Off	Off
PR166	60MHz	2.5x	On	On	On	Off
PR166	66MHz	2x	Off	On	Off	Off
PR200	60MHz	3x	On	Off	On	Off
PR200	66MHz	2.5x	Off	On	On	Off
PR200	75MHz	2x	Off	On	Off	Off
PR233	66MHz	3x	Off	Off	On	Off
PR233	75MHz	2.5x	Off	On	On	Off
PR233	83MHz	2x	On	On	Off	Off

PR266	66MHz	3.5x	Off	Off	Off	Off
PR266	75MHz	3x	Off	Off	On	Off
PR266	83MHz	2.5x	On	On	On	Off

CPU SPEED SELECTION (CX/IBM 6X86MX CON'T)						
Speed	Clock Speed	Multiplier	SW1/5	SW1/6	SW1/7	SW1/8
PR150	60MHz	2x	Off	On	On	Off
PR166	60MHz	2.5x	Off	On	On	Off
PR166	66MHz	2x	Off	On	On	Off
PR200	60MHz	3x	Off	On	On	Off
PR200	66MHz	2.5x	Off	On	On	Off
PR200	75MHz	2x	Off	On	On	Off
PR233	66MHz	3x	Off	On	On	Off
PR233	75MHz	2.5x	Off	On	On	Off
PR233	83MHz	2x	Off	On	On	Off
PR266	66MHz	3.5x	Off	On	On	Off
PR266	75MHz	3x	Off	On	On	Off
PR266	83MHz	2.5x	Off	On	On	Off

CPU SPEED SELECTION (CX/IBM 6X86MX CON'T)					
Speed	Clock Speed	Multiplier	JP4	JP5	JP6
PR150	60MHz	2x	2 & 3	2 & 3	2 & 3
PR166	60MHz	2.5x	2 & 3	2 & 3	2 & 3
PR166	66MHz	2x	2 & 3	2 & 3	2 & 3
PR200	60MHz	3x	2 & 3	2 & 3	2 & 3
PR200	66MHz	2.5x	2 & 3	2 & 3	2 & 3
PR200	75MHz	2x	1 & 2	2 & 3	1 & 2
PR233	66MHz	3x	2 & 3	2 & 3	2 & 3

PR233	76MHz	2.5x	1 & 2	2 & 3	1 & 2
PR233	83MHz	2x	1 & 2	1 & 2	2 & 3
PR266	66MHz	3.5x	2 & 3	2 & 3	2 & 3
PR266	75MHz	3x	1 & 2	2 & 3	1 & 2
PR266	83MHz	2.5x	1 & 2	1 & 2	2 & 3

Note: Indicated pins are in the closed position.