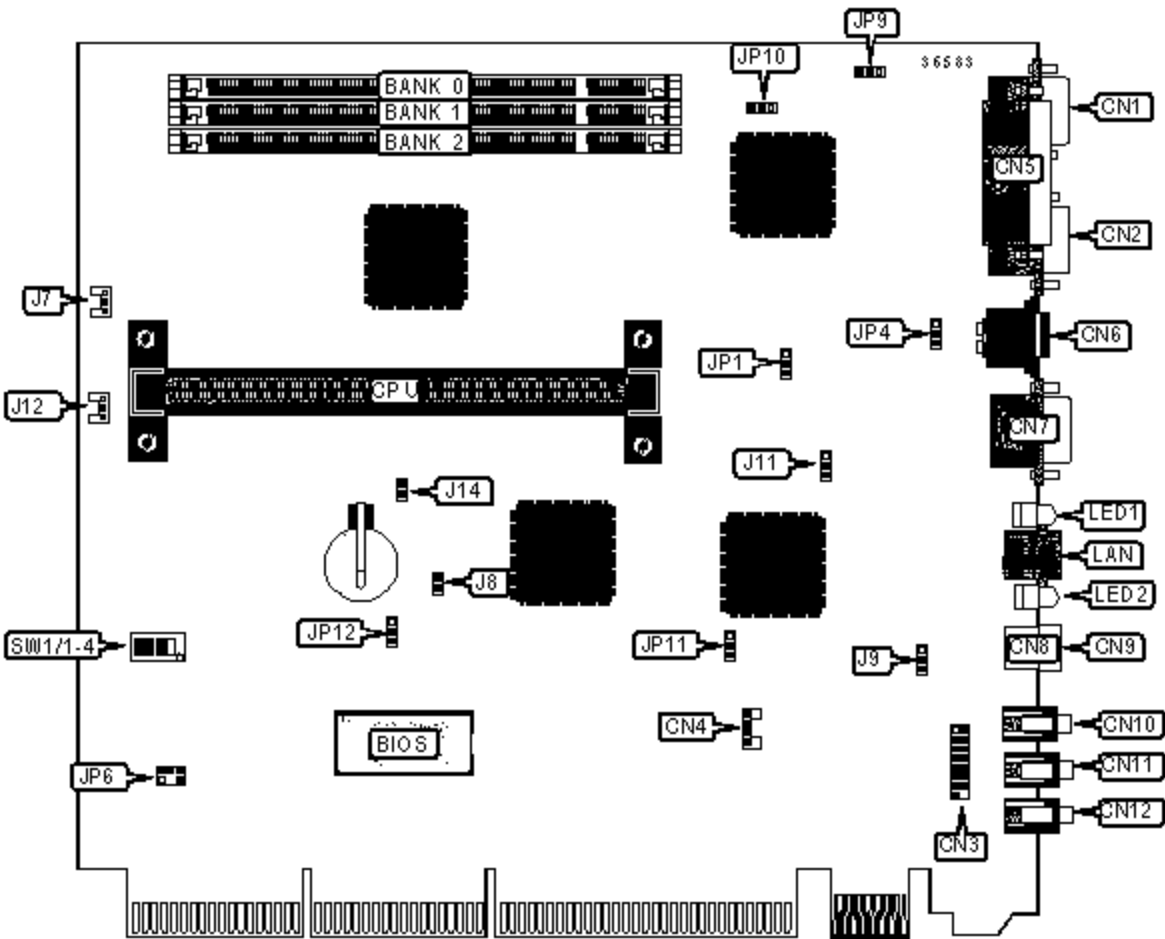


GIGA-BYTE TECHNOLOGY CO., LTD.

GA-6BNZ (REV. 2.1)

Device Type	Mainboard
Processor	Pentium II/Pentium II/Celeron
Processor Speed	233/266/300/333/350/366/400/433/450/500/550/600/650MHz
Chip Set	Intel 440BX
Video Chip Set	ATI
Audio Chip Set	Yamaha
Maximum Onboard Memory	768MB (SDRAM supported)
Maximum Video Memory	Unidentified
Maximum Audio Memory	Unidentified
Cache	0/128/256/512KB (located on the CPU)
BIOS	Award
Dimensions	282mm x 216mm
I/O Options (backplane)	32-bit PCI slots (2), CD-ROM interface, floppy drive interface, game port, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), VGA port, USB connectors (2), ATX power connector, line in, line out, microphone in, audio in - CD-ROMs (2), LAN connector, SB-Link



CONNECTIONS			
Purpose	Location	Purpose	Location
Serial port 1	CN1	USB connector 2	CN9
Serial port 2	CN2	Microphone in	CN10

Game port	CN3	Line out	CN11
CD-ROM interface	CN4	Line in	CN12
Parallel port	CN5	CPU fan power	J7
PS/2 mouse port	CN6	Chassis fan power	J12
VGA port	CN7	SB-Link	JP6
USB connector 1	CN8	LAN connector	LAN

USER CONFIGURABLE SETTINGS			
Function		Label	Position
☐	ATX power control soft off	J8	Open
☐	ATX power control full on	J8	Closed
☐	On-board sound disabled	J9	Pins 1 & 2 Closed
☐	ON-board sound enabled	J9	Pins 2 & 3 Closed
☐	Wake on LAN enabled	J11	Pins 1 & 2 Closed
☐	Wake on LAN disabled	J11	Pins 2 & 3 Closed
☐	Internal buzzer disabled	J14	Open
☐	Internal buzzer enabled	J14	Closed
☐	System clock speed auto-detect	JP1	Pins 2 & 3 Closed
☐	Keyboard power on enabled	JP4	Pins 1 & 2 Closed
☐	Keyboard power on disabled	JP4	Pins 2 & 3 Closed
☐	On-board VGA IRQ released	JP9	Pins 2 & 3 Closed
☐	On-board VGA IRQ not released	JP9	Pins 1 & 2 Closed
☐	On-board VGA disabled	JP10	Pins 1 & 2 Closed
☐	On-board VGA enabled	JP10	Pins 2 & 3 Closeed
☐	On-board LAN disabled	JP11	Pins 1 & 2 Closed
☐	On-board LAN enabled	JP11	Pins 2 & 3 Closed
☐	CMOS memory normal operation	JP12	Pins 1 & 2 Closed

	CMOS memory clear	JP12	Pins 2 & 3 Closed
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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
80MB	(1) 4M x 64	(1) 4M x 64	(1) 2M x 64
96MB	(1) 8M x 64	(1) 4M x 64	None
96MB	(1) 8M x 64	(1) 2M x 64	(1) 2M x 64
96MB	(1) 4M x 64	(1) 4M x 64	(1) 4M 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
192MB	(1) 8M x 64	(1) 8M x 64	(1) 8M 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) 32M x 64	None	None
256MB	(1) 16M x 64	(1) 16M x 64	None
256MB	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64
272MB	(1) 32M x 64	(1) 2M x 64	None
272MB	(1) 16M x 64	(1) 16M x 64	(1) 2M x 64
288MB	(1) 32M x 64	(1) 4M x 64	None
288MB	(1) 32M x 64	(1) 2M x 64	(1) 2M x 64
288MB	(1) 16M x 64	(1) 16M x 64	(1) 4M x 64
304MB	(1) 32M x 64	(1) 4M x 64	(1) 2M x 64
320MB	(1) 32M x 64	(1) 8M x 64	None
320MB	(1) 32M x 64	(1) 4M x 64	(1) 4M x 64
320MB	(1) 16M x 64	(1) 16M x 64	(1) 8M 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) 16M x 64	none
384MB	(1) 32M x 64	(1) 8M x 64	(1) 8M x 64
384MB	(1) 16M x 64	(1) 16M x 64	(1) 16M 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) 32M x 64	None
512MB	(1) 32M x 64	(1) 16M x 64	(1) 16M 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

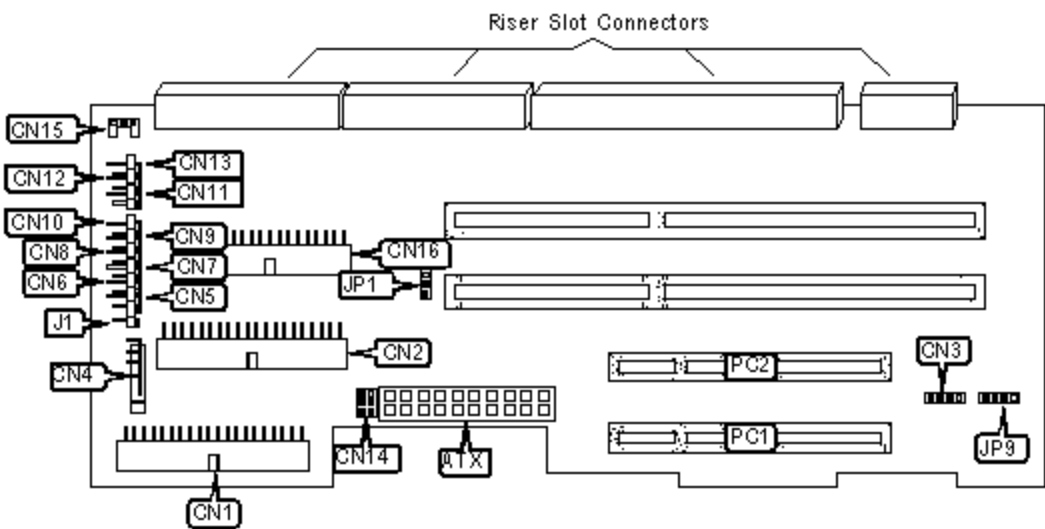
576MB	(1) 32M x 64	(1) 32M x 64	(1) 8M x 64
640MB	(1) 32M x 64	(1) 32M x 64	(1) 16M x 64
768MB	(1) 32M x 64	(1) 32M x 64	(1) 32M x 64
Note: Board accepts SDRAM memory.			

CACHE CONFIGURATION
Note: 256KB/512KB cache is located on the Pentium II/Pentium III CPU. 128KB cache is located on the Celeron 300 & 333A CPU.

CPU SPEED SELECTION (PENTIUM)							
CPU speed	Clock speed	Multiplier	JP1	SW1/1	SW1/2	SW1/3	SW1/4
233MHz	66MHz	3.5x	Pins 1 & 2	On	On	Off	Off
266MHz	66MHz	4x	Pins 1 & 2	On	On	Off	On
300MHz	66MHz	4.5x	Pins 1 & 2	Off	On	Off	On
333MHz	66MHz	5x	Pins 1 & 2	On	Off	Off	On
366MHz	66MHz	5.5x	Pins 1 & 2	Off	Off	Off	On
400MHz	66MHz	6x	Pins 1 & 2	On	On	On	Off
433MHz	66MHz	6.5x	Pins 1 & 2	Off	On	On	Off
350MHz	100MHz	3.5x	Open	On	On	Off	Off
400MHz	100MHz	4x	Open	On	On	Off	On
450MHz	100MHz	4.5x	Open	Off	On	Off	On
500MHz	100MHz	5x	Open	On	Off	Off	On
550MHz	100MHz	5.5x	Open	Off	Off	Off	On
600MHz	100MHz	6x	Open	On	On	On	Off
650MHz	100MHz	6.5x	Open	Off	On	On	Off

DIAGNOSTIC LED(S)			
LED	Color	Status	Condition

LED1	Yellow	On	Data is being transmitted/received
LED1	Yellow	Off	Data is not being transmitted/received
LED2	Green	On	Network connection is good
LED2	Green	Off	Network connection is broken



RISER CARD CONNECTIONS			
Purpose	Location	Purpose	Location
ATX power connector	ATX	IDE interface LED connector	CN10
IDE interface 1	CN1	LAN LED connector	CN11
IDE interface 2	CN2	Modem ring connector	CN12
Audio in 2 - CD-ROM	CN3	Wake on LAN connector	CN13
Speaker connector	CN4	ATX power fan connector	CN14
Reset switch connector	CN5	Chassis fan power	CN15
Green PC connector	CN6	Floppy drive interface	CN16
Power switch connector	CN7	Wake on LAN connector	JP1
Power LED connector	CN8	Audio in 1 - CD-ROM	JP9
Green PC LED connector	CN9	32-bit PCI slots	PC1 - PC2

USER CONFIGURABLE SETTINGS		
Function		Position

»	Factory configured - do not alter	J1	Unidentified
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