GIGA-BYTE TECHNOLOGY CO., LTD

GA-6BXE (REV. 2.0)

Device Type	Mainboard
Processor	Pentium II/Pentium III/Celeron
Processor Speed	233/266/300/333/350/366/400/433/450/500/550/600/650MHz
Chip Set	Intel 440 BX
Maximum Onboard Memory	1GB (SDRAM supported)
Cache	0/128/256/512KB (located on the CPU)
BIOS	Award
Dimensions	305mm x 190mm
I/O Options	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, SB-Link connector, Wake on LAN connector
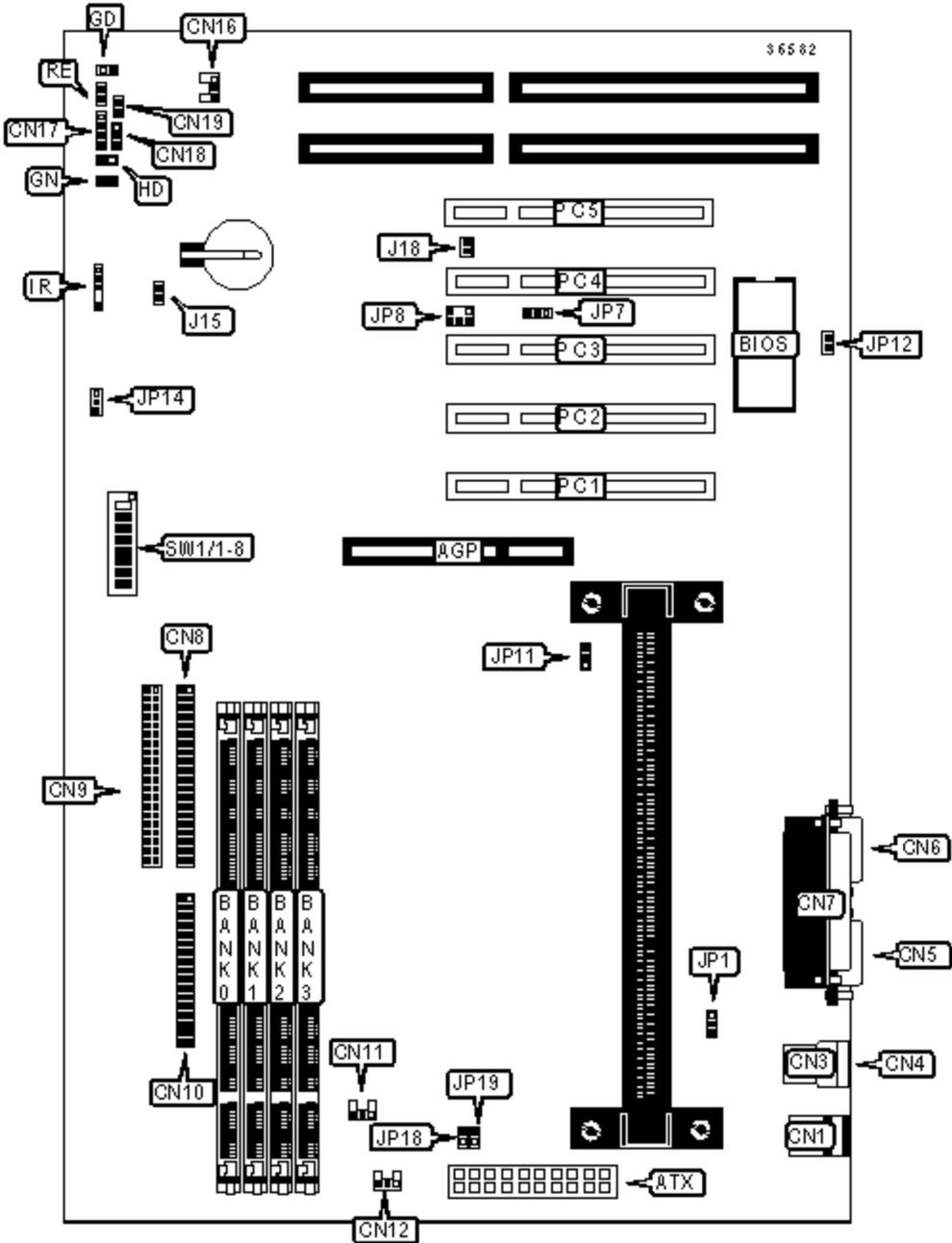
CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**

AGP slot	AGP	Speaker	CN17
ATX power connector	ATX	Power LED	CN18
PS/2 mouse port	CN1	Soft power supply	CN19
USB connector 1	CN3	Green PC LED	GD
USB connector 2	CN4	Green PC connector	GN
Serial port 2	CN5	IDE interface LED	HD
Serial port 1	CN6	IR connector	IR
Parallel port	CN7	Wake on LAN connector	JP7
IDE interface 1	CN8	SB-Link	JP8
IDE interface 2	CN9	Case Open connector	JP12
Floppy drive interface	CN10	Internal modem power connector	J18
Power fan	CN11	32-bit PCI slots	PC1 - PC5
CPU fan power	CN12	Reset switch	RE
Panel fan connector	CN16		

USER CONFIGURABLE SETTINGS			
Function		**Label**	**Position**
»	ATX power control select soft off	J15	Open
	ATX power control select soft off/full on	J15	Closed
	Keyboard power on enabled	JP1	Pins 1 & 2 Closed
»	Keyboard power on disabled	JP1	Pins 2 & 3 Closed
»	100MHz normal operation	JP11	Pins 2 & 3 Closed
	100MHZ turbo and other frequencies	JP11	Pins 1 & 2 Closed
»	CMOS memory normal operation	JP14	Pins 2 & 3 Closed
	CMOS memory clear	JP14	Pins 1 & 2 Closed

DIMM CONFIGURATION				
Size	Bank 0	Bank 1	Bank 2	Bank 3
16MB	(1) 2M x 64	None	None	None
32MB	(1) 2M x 64	(1) 2M x 64	None	None
48MB	(1) 4M x 64	(1) 2M x 64	None	None
64MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
64MB	(1) 8M x 64	None	None	None
64MB	(1) 4M x 64	(1) 4M x 64	None	None
80MB	(1) 8M x 64	(1) 2M x 64	None	None
80MB	(1) 4M x 64	(1) 4M x 64	(1) 2M x 64	None
80MB	(1) 4M x 64	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
96MB	(1) 8M x 64	(1) 4M x 64	None	None
96MB	(1) 8M x 64	(1) 2M x 64	(1) 2M x 64	None
96MB	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64	None
112MB	(1) 8M x 64	(1) 4M x 64	(1) 2M x 64	None
112MB	(1) 8M x 64	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
112MB	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64	(1) 2M x 64
128MB	(1) 16M x 64	None	None	None
128MB	(1) 8M x 64	(1) 8M x 64	None	None
128MB	(1) 8M x 64	(1) 4M x 64	(1) 4M x 64	None
144MB	(1) 16M x 64	(1) 2M x 64	None	None
144MB	(1) 8M x 64	(1) 8M x 64	(1) 2M x 64	None
144MB	(1) 8M x 64	(1) 4M x 64	(1) 4M x 64	(1) 2M x 64
160MB	(1) 16M x 64	(1) 4M x 64	None	None
160MB	(1) 16M x 64	(1) 2M x 64	(1) 2M x 64	None
160MB	(1) 8M x 64	(1) 8M x 64	(1) 4M x 64	None
176MB	(1) 16M x 64	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
176MB	(1) 16M x 64	(1) 4M x 64	(1) 2M x 64	None
176MB	(1) 8M x 64	(1) 8M x 64	(1) 4M x 64	(1) 2M x 64

192MB	(1) 16M x 64	(1) 8M x 64	None	None
192MB	(1) 16M x 64	(1) 4M x 64	(1) 4M x 64	None
192MB	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64	None
208MB	(1) 16M x 64	(1) 8M x 64	(1) 2M x 64	None
208MB	(1) 16M x 64	(1) 4M x 64	(1) 4M x 64	(1) 2M x 64
208MB	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64	(1) 2M x 64
224MB	(1) 16M x 64	(1) 8M x 64	(1) 4M x 64	None
224MB	(1) 16M x 64	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64
224MB	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64	(1) 4M x 64
240MB	(1) 16M x 64	(1) 8M x 64	(1) 4M x 64	(1) 2M x 64
256MB	(1) 32M x 64	None	None	None
256MB	(1) 16M x 64	(1) 16M x 64	None	None
256MB	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64	None
272MB	(1) 32M x 64	(1) 2M x 64	None	None
272MB	(1) 16M x 64	(1) 16M x 64	(1) 2M x 64	None
272MB	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64	(1) 2M x 64
288MB	(1) 32M x 64	(1) 4M x 64	None	None
288MB	(1) 16M x 64	(1) 16M x 64	(1) 4M x 64	None
288MB	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64	(1) 4M x 64
304MB	(1) 32M x 64	(1) 4M x 64	(1) 2M x 64	None
304MB	(1) 32M x 64	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
304MB	(1) 16M x 64	(1) 16M x 64	(1) 4M x 64	(1) 2M x 64
320MB	(1) 32M x 64	(1) 8M x 64	None	None
320MB	(1) 16M x 64	(1) 16M x 64	(1) 8M x 64	None
320MB	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64
336MB	(1) 32M x 64	(1) 8M x 64	(1) 2M x 64	None
336MB	(1) 32M x 64	(1) 4M x 64	(1) 4M x 64	(1) 2M x 64
336MB	(1) 16M x 64	(1) 16M x 64	(1) 8M x 64	(1) 2M x 64

352MB	(1) 32M x 64	(1) 8M x 64	(1) 4M x 64	None
352MB	(1) 32M x 64	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64
352MB	(1) 16M x 64	(1) 16M x 64	(1) 8M x 64	(1) 4M x 64
368MB	(1) 32M x 64	(1) 8M x 64	(1) 4M x 64	(1) 2M x 64
384MB	(1) 32M x 64	(1) 16M x 64	None	None
384MB	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64	None
384MB	(1) 16M x 64	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64
400MB	(1) 32M x 64	(1) 16M x 64	(1) 2M x 64	None
400MB	(1) 32M x 64	(1) 8M x 64	(1) 8M x 64	(1) 2M x 64
400MB	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64	(1) 2M x 64
416MB	(1) 32M x 64	(1) 16M x 64	(1) 4M x 64	None
416MB	(1) 32M x 64	(1) 8M x 64	(1) 8M x 64	(1) 4M x 64
416MB	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64	(1) 4M x 64
432MB	(1) 32M x 64	(1) 16M x 64	(1) 4M x 64	(1) 2M x 64
448MB	(1) 32M x 64	(1) 16M x 64	(1) 8M x 64	None
448MB	(1) 32M x 64	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64
448MB	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64	(1) 8M x 64
464MB	(1) 32M x 64	(1) 16M x 64	(1) 8M x 64	(1) 2M x 64
480MB	(1) 32M x 64	(1) 16M x 64	(1) 8M x 64	(1) 4M x 64
512MB	(1) 32M x 64	(1) 32M x 64	None	None
512MB	(1) 32M x 64	(1) 16M x 64	(1) 16M x 64	None
512MB	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64
528MB	(1) 32M x 64	(1) 32M x 64	(1) 2M x 64	None
528MB	(1) 32M x 64	(1) 16M x 64	(1) 16M x 64	(1) 2M x 64
544MB	(1) 32M x 64	(1) 32M x 64	(1) 4M x 64	None
544MB	(1) 32M x 64	(1) 32M x 64	(1) 2M x 64	(1) 2M x 64
544MB	(1) 32M x 64	(1) 16M x 64	(1) 16M x 64	(1) 4M x 64
560MB	(1) 32M x 64	(1) 32M x 64	(1) 4M x 64	(1) 2M x 64
576MB	(1) 32M x 64	(1) 32M x 64	(1) 8M x 64	None

576MB	(1) 32M x 64	(1) 32M x 64	(1) 4M x 64	(1) 4M x 64
576MB	(1) 32M x 64	(1) 16M x 64	(1) 16M x 64	(1) 8M x 64
592MB	(1) 32M x 64	(1) 32M x 64	(1) 8M x 64	(1) 2M x 64
608MB	(1) 32M x 64	(1) 32M x 64	(1) 8M x 64	(1) 4M x 64
640MB	(1) 32M x 64	(1) 32M x 64	(1) 16M x 64	None
640MB	(1) 32M x 64	(1) 32M x 64	(1) 8M x 64	(1) 8M x 64
640MB	(1) 32M x 64	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64
656MB	(1) 32M x 64	(1) 32M x 64	(1) 16M x 64	(1) 2M x 64
672MB	(1) 32M x 64	(1) 32M x 64	(1) 16M x 64	(1) 4M x 64
704MB	(1) 32M x 64	(1) 32M x 64	(1) 16M x 64	(1) 8M x 64
768MB	(1) 32M x 64	(1) 32M x 64	(1) 32M x 64	None
768MB	(1) 32M x 64	(1) 32M x 64	(1) 16M x 64	(1) 16M x 64
784MB	(1) 32M x 64	(1) 32M x 64	(1) 32M x 64	(1) 2M x 64
800MB	(1) 32M x 64	(1) 32M x 64	(1) 32M x 64	(1) 4M x 64
836MB	(1) 32M x 64	(1) 32M x 64	(1) 32M x 64	(1) 8M x 64
836MB	(1) 32M x 64	(1) 32M x 64	(1) 32M x 64	None
1024MB	(1) 32M x 64	(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	SW1/1	SW1/2	SW1/3	SW1/4
233MHz	66MHz	3.5x	Off	Off	On	On
266MHz	66MHz	4x	On	On	Off	On
300MHz	66MHz	4.5x	Off	On	Off	On

CPU speed	Clock speed	Multiplier	SW1/5	SW1/6	SW1/7	SW1/8
333MHz	66MHz	5x	On	Off	Off	On
366MHz	66MHz	5.5x	Off	Off	Off	On
400MHz	66MHz	6x	On	On	On	Off
433MHz	66MHz	6.5x	Off	On	On	Off
350MHz	100MHz	3.5x	Off	Off	On	On
400MHz	100MHz	4x	On	On	Off	On
450MHz	100MHz	4.5x	Off	On	Off	On
500MHz	100MHz	5x	On	Off	Off	On
550MHz	100MHz	5.5x	Off	Off	Off	On
600MHz	100MHz	6x	On	On	On	Off
650MHz	100MHz	6.5x	Off	On	On	Off

CPU SPEED SELECTION (CONT)						
CPU speed	Clock speed	Multiplier	SW1/5	SW1/6	SW1/7	SW1/8
233MHz	66MHz	3.5x	On	Off	Off	On
266MHz	66MHz	4x	On	Off	Off	On
300MHz	66MHz	4.5x	On	Off	Off	On
333MHz	66MHz	5x	On	Off	Off	On
366MHz	66MHz	5.5x	On	Off	Off	On
400MHz	66MHz	6x	On	Off	Off	On
433MHz	66MHz	6.5x	On	Off	Off	On
350MHz	100MHz	3.5x	Off	Off	Off	Off
400MHz	100MHz	4x	Off	Off	Off	Off
450MHz	100MHz	4.5x	Off	Off	Off	Off
500MHz	100MHz	5x	Off	Off	Off	Off
550MHz	100MHz	5.5x	Off	Off	Off	Off
600MHz	100MHz	6x	Off	Off	Off	Off
650MHz	100MHz	6.5x	Off	Off	Off	Off

VOODOO3 VGA SELECT			
Function		**JP18**	**JP19**
»	Normal operation	Open	Open
	Voodoo3 VGA card	Closed	Closed