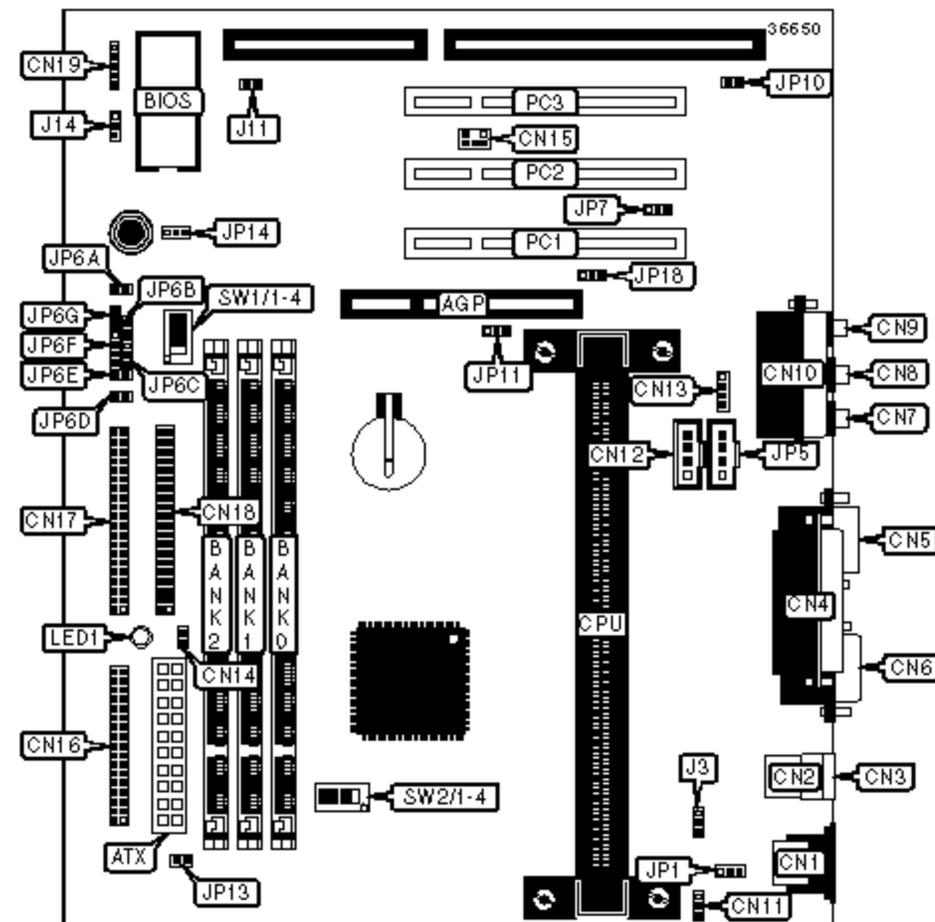


# GIGA-BYTE TECHNOLOGY CO., LTD.

## GA-6VMA (REV. 1.0)

<b>Device Type</b>	Mainboard
<b>Processor</b>	Celeron/Pentium II/Pentium III
<b>Processor Speed</b>	233/266/300/333/350/366/400/433/450/500/550/600/650MHz
<b>Chip Set</b>	VIA
<b>Audio Chip Set</b>	ESS
<b>Maximum Onboard Memory</b>	768MB (SDRAM supported)
<b>Cache</b>	0/128/256/512KB (located on the CPU)
<b>BIOS</b>	Award
<b>Dimensions</b>	245mm x 200mm
<b>I/O Options</b>	32-bit PCI slots (3), floppy drive interface, game/MIDI port, 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, line in, line out, microphone in, SB-link connector, Audio in - CD-ROM (2), Modem with voice connector, Wake-on-LAN connector, Power-on Ring Connector



### CONNECTIONS

Purpose	Location	Purpose	Location
AGP slot	AGP	IDE interface 1	CN17
ATX power connector	ATX	IDE interface 2	CN18
PS/2 mouse port	CN1	IR connector	CN19
USB connector 1	CN2	CPU fan power	J3

USB connector 2	CN3	Power-on-ring connector	J11
Parallel port	CN4	System fan power	J14
Serial port 1	CN5	Audio in - CD-ROM	JP5
Serial port 2	CN6	Green PC LED	JP6A
Line out	CN7	Power switch	JP6B
Line in	CN8	Power LED	JP6C
Microphone in	CN9	Green PC connector	JP6D
Game/MIDI port	CN10	IDE interface LED	JP6E
Power fan connector	CN11	PC speaker	JP6F
Audio in - CD-ROM	CN12	Reset switch	JP6G
Modem with voice connector	CN13	Wake-on-LAN connector	JP7
STR LED connector	CN14	Open case connector	JP10
SB-link connector	CN15	Ram suspend LED	JP15
Floppy drive interface	CN16	32-bit PCI slots	PC1 - PC3

### USER CONFIGURABLE SETTINGS

Function		Label	Position
»	Keyboard power-on disabled	JP1	Pins 2 & 3 closed
	Keyboard power-on enabled	JP1	Pins 1 & 2 closed
»	Normal system acceleration	JP11	Pins 2 & 3 closed
	Turbo system acceleration - 100MHz and higher	JP11	Pins 1 & 2 closed
»	Normal RAM operation	JP13	Open
	Suspend RAM operation	JP13	Closed
»	CMOS normal operation	JP14	Pins 2 & 3 closed
	CMOS clear memory	JP14	Pins 1 & 2 closed
»	Onboard sound enabled	JP18	Pins 1 & 2 closed
	Onboard sound disabled	JP18	Pins 2 & 3 closed

Note: Once RAM operation has been suspended (JP13 - closed), SDRAM modules can be unplugged and replaced.

### DIMM CONFIGURATION

Size	Bank 0	Bank 1	Bank 2
16MB	(1) 2M x 64	None	None
32MB	(1) 2M x 64	(1) 2M x 64	None
32MB	(1) 4M x 64	None	None
48MB	(1) 2M x 64	(1) 2M x 64	(1) 2M 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
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
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
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

768MB (1) 32M x 64 (1) 32M x 64 (1) 32M x 64

Note: Board supports SDRAM memory.

### CACHE CONFIGURATION

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

### CPU SPEED SELECTION (CELERON)

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
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

### CPU SPEED SELECTION (CELERON CONT)

CPU speed	Clock speed	Multiplier	SW2/1	SW2/2	SW2/3	SW2/4
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

### CPU SPEED SELECTION (PENTIUM II)

CPU speed	Clock speed	Multiplier	SW3/1	SW3/2	SW3/3	SW3/4

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
333MHz	66MHz	5x	On	Off	Off	On
350MHz	100MHz	3.5x	Off	Off	On	On
366MHz	66MHz	5.5x	Off	Off	Off	On
400MHz	66MHz	6x	On	On	On	Off
400MHz	100MHz	4x	On	On	Off	On
433MHz	66MHz	6.5x	Off	On	On	Off

**CPU SPEED SELECTION (PENTIUM II CONT)**

CPU speed	Clock speed	Multiplier	SW2/1	SW2/2	SW2/3	SW2/4
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
350MHz	100MHz	3.5x	Off	Off	Off	Off
366MHz	66MHz	5.5x	On	Off	Off	On
400MHz	66MHz	6x	On	Off	Off	On
400MHz	100MHz	4x	Off	Off	Off	Off
433MHz	66MHz	6.5x	On	Off	Off	On

**CPU SPEED SELECTION (PENTIUM III)**

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4
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 (PENTIUM III CONT)**

<b>CPU speed</b>	<b>Clock speed</b>	<b>Multiplier</b>	<b>SW2/1</b>	<b>SW2/2</b>	<b>SW2/3</b>	<b>SW2/4</b>
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

**DIAGNOSTIC LED(S)**

<b>LED</b>	<b>Color</b>	<b>Status</b>	<b>Condition</b>
LED1	Unidentified	On	RAM operation is normal - do not unplug SDRAM
LED1	Unidentified	Off	RAM operation is suspended