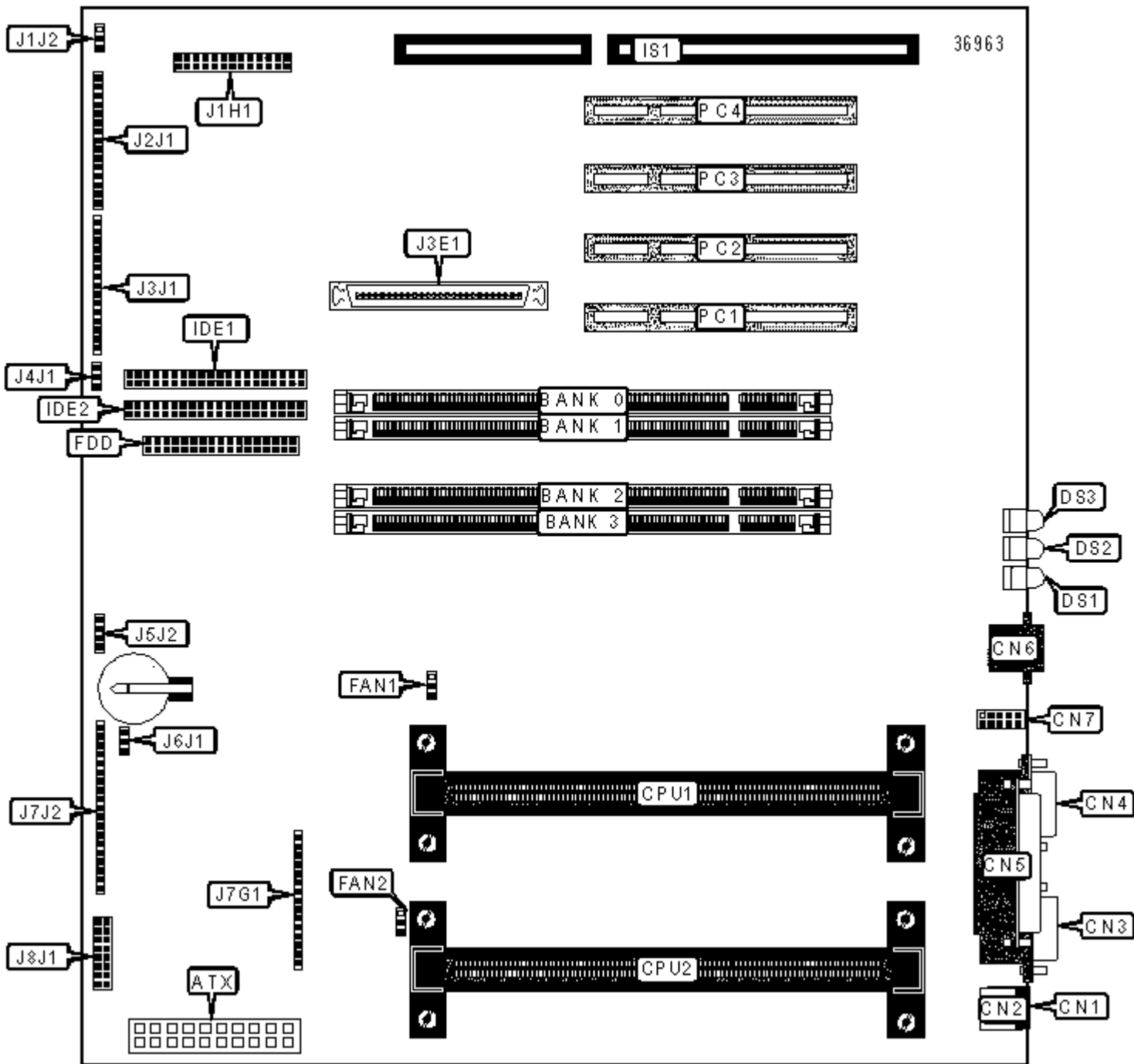


## **AST RESEARCH, INC.**

PREMIUM GS 6233 (503453-101)

<b>Device Type</b>	Mainboard
<b>Processor</b>	Pentium II
<b>Processor Speed</b>	233/266/300/333/366MHz
<b>Chip Set</b>	Intel 440LX
<b>Video Chip Set</b>	Cirrus Logic
<b>Maximum Onboard Memory</b>	256/512MB (SDRAM supported)
<b>Maximum Video Memory</b>	1MB
<b>Cache</b>	512KB (located on the Pentium II CPU)
<b>BIOS</b>	Unidentified
<b>Dimensions</b>	330mm x 305mm
<b>I/O Options</b>	16-bit ISA slot, 32-bit PCI slots (4), Ethernet 10BaseT connector, floppy drive interface, IDE interfaces (2), Wide SCSI interface, parallel port, PS/2 mouse port, PS/2 keyboard port, serial port, serial interface, VGA port, ATX power connector



### CONNECTIONS

Purpose	Location	Purpose	Location
ATX power connector	ATX	IDE interface 2	IDE2
PS/2 mouse port	CN1	16-bit ISA slot	IS1
PS/2 keyboard port	CN2	SMM connector	J1H1
Serial port	CN3	System fan power 1	J1J2
VGA port	CN4	Wide SCSI interface	J3E1
Parallel port	CN5	System fan power 2	J4J1

Ethernet 10BaseT connector	CN6	IDE interface LED	J5J2
Serial interface	CN7	Local I2C connector	J6J1
Heat sink fan 1	FAN1	AT front panel connector	J7J2
Heat sink fan 2	FAN2	Front panel connector	J8J1
Floppy drive interface	FDD	32-bit PCI slots	PC1 - PC4
IDE interface 1	IDE1		

### USER CONFIGURABLE SETTINGS

Function		Label	Position
»	CMOS memory normal operation	J2J1	Pins 1 & 2 closed
	CMOS memory clear	J2J1	Pins 2 & 3 closed
	Password enabled	J2J1	Pins 5 & 6 closed
	Password disabled	J2J1	Pins 6 & 7 closed
	Normal boot enabled	J2J1	Pins 9 & 10 closed
	Recovery boot enabled, BIOS loaded from disk	J2J1	Pins 10 & 11 closed
	BIOS write protection enabled	J2J1	Pins 13 & 14 closed
	BIOS write protection disabled	J2J1	Pins 14 & 15 closed
	CPU speed configuration disabled	J3J1	Pins 1 & 2 closed
	CPU speed configuration enabled	J3J1	Pins 2 & 3 closed
	FRB timer enabled	J3J1	Pins 5 & 6 closed
	FRB timer disabled	J3J1	Pins 6 & 7 closed
	Chassis intrusion detect enabled	J3J1	Pins 9 & 10 closed
	Chassis intrusion detect disabled	J3J1	Pins 10 & 11 closed
	Minimum in-order queue host bus	J3J1	Pins 13 & 14 closed
	Maximum in-order queue host bus	J3J1	Pins 14 & 15 closed

### DIMM CONFIGURATION

<b>Size</b>	<b>Bank 0</b>	<b>Bank 1</b>	<b>Bank 2</b>	<b>Bank 3</b>
8MB	(1) 1M x 64	None	None	None
16MB	(1) 1M x 64	(1) 1M x 64	None	None
16MB	(1) 2M x 64	None	None	None
24MB	(1) 1M x 64	(1) 1M x 64	(1) 1M x 64	None
32MB	(1) 1M x 64	(1) 1M x 64	(1) 1M x 64	(1) 1M x 64
32MB	(1) 2M x 64	(1) 2M x 64	None	None
32MB	(1) 4M x 64	None	None	None
48MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64	None
64MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
64MB	(1) 4M x 64	(1) 4M x 64	None	None
64MB	(1) 8M x 64	None	None	None
80MB	(1) 4M x 64	(1) 4M x 64	(1) 1M x 64	(1) 1M x 64
96MB	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64	None
96MB	(1) 4M x 64	(1) 4M x 64	(1) 2M x 64	(1) 2M x 64
128MB	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64
128MB	(1) 8M x 64	(1) 8M x 64	None	None
128MB	(1) 16M x 64	None	None	None
144MB	(1) 8M x 64	(1) 8M x 64	(1) 1M x 64	(1) 1M x 64
160MB	(1) 8M x 64	(1) 8M x 64	(1) 2M x 64	(1) 2M x 64
192MB	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64	None
192MB	(1) 8M x 64	(1) 8M x 64	(1) 4M x 64	(1) 4M x 64
256MB	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64
256MB	(1) 16M x 64	(1) 16M x 64	None	None
256MB	(1) 32M x 64	None	None	None
272MB	(1) 16M x 64	(1) 16M x 64	(1) 1M x 64	(1) 1M x 64
288MB	(1) 16M x 64	(1) 16M x 64	(1) 2M x 64	(1) 2M x 64

320MB	(1) 16M x 64	(1) 16M x 64	(1) 4M x 64	(1) 4M x 64
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
512MB	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64

Note: Board supports SDRAM memory.

### CACHE CONFIGURATION

Note: 256KB/512KB cache is located on the Pentium II CPUs.

### CPU SPEED SELECTION

Speed	J7G1/Pins 1 & 2	J7G1/Pins 2 & 3	J7G1/Pins 5 & 6	J7G1/Pins 6 & 7
233MHz	Open	Closed	Closed	Open
266MHz	Closed	Open	Open	Closed
300MHz	Closed	Open	Open	Closed
333MHz	Open	Open	Open	Closed
366MHz	Open	Open	Open	Closed

### CPU SPEED SELECTION

Speed	J7G1/Pins 9 & 10	J7G1/Pins 10 & 11	J7G1/Pins 13 & 14	J7G1/Pins 14 & 15
233MHz	Open	Closed	Closed	Open
266MHz	Closed	Open	Closed	Open
300MHz	Open	Closed	Closed	Open
333MHz	Closed	Open	Closed	Open
366MHz	Open	Closed	Closed	Open

### DIAGNOSTIC LED(S)

LED	Status	Condition
DS1	On	Network controller at 100Mbps transfer speed operation
DS1	Off	Network controller at 10Mbps transfer speed operation

DS2	On	Link to LAN; network controller & hub receiving power; or cable connection good
DS2	Off	No Link to LAN; network controller & hub not receiving power; or cable connection bad
DS3	On (Blinking)	Network controller sending or receiving data
DS3	Off	Network controller not sending or receiving data