BCM ADVANCED RESEARCH, INC.

GT440ZX

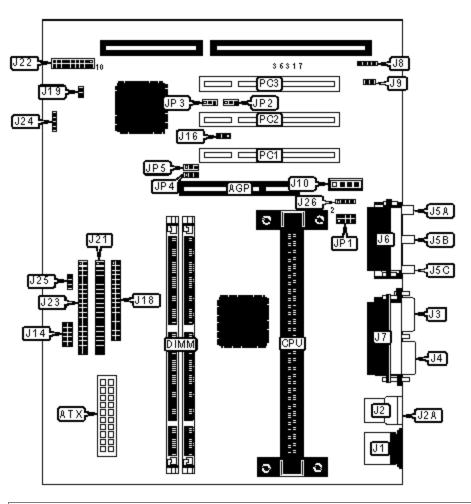|	
Device Type	Mainboard
Processor	Pentium II/Celeron
Processor Speed	233/266/300/333/350/366/400/433/450/466/500MHz
Chip Set	Intel 440ZX
Maximum Onboard Memory	256MB (SDRAM supported)
Audio Chip Set	Creative
Cache	0/128/512KB (located on the CPU)
BIOS	Award
Dimensions	305mm x 244mm
I/O Options	32-bit 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, audio in - CD-ROM, wake on LAN connector

CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
AGP slot	AGP	Wake on LAN connector	J16
ATX power connector	ATX	CPU fan power	J17
PS/2 mouse port	J1	IDE interface 2	J18
USB connector 1	J2	IDE interface 1	J21

USB connector 2	J2A	IDE interface LED	J22/pins 1 & 2
Serial port 2	J3	Reset switch	J22/pins 3 & 4
Serial port 1	J4	IR connector	J22/pins 5 - 8
Microphone in	J5A	Power LED	J22/pins 10 & 11
Line in	J5B	Soft off power supply	J22/pins 12 & 13
Line out	J5C	Green PC connector	J22/pins 14 & 15
Game/MIDI port	J6	Floppy drive interface	J23
Parallel port	J7	Speaker	J24
Modem connector	J8	Chassis fan power	J25
S/PDIF connector	J9	Auxiliary in	J26
Audio in - CD-ROM	J10	32-bit PCI slots	PC1 - PC3
Front USB connector	J14		

USER CONFIGURABLE SETTINGS			
Function		**Label**	**Position**
»	CMOS memory normal operation	JP2	Pins 1 & 2 closed
	CMOS memory clear	JP2	Pins 2 & 3 closed
»	Password normal operation	JP3	Pins 1 & 2 closed
	Password clear	JP3	Pins 2 & 3 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

Size	Bank 0	Bank 1
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

DIMM CONFIGURATION (CON'T)		
Size	**Bank 0**	**Bank 1**
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
Note: Board accepts SDRAM memory. The location of the banks are unidentified.		

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

CPU SPEED SELECTION						
CPU speed	**Clock speed**	**Multiplier**	**JP1/ pins 1 & 2**	**JP1/ pins 3 & 4**	**JP1/ pins 5 & 6**	**JP1/ pins 7 & 8**
233MHz	66MHz	3.5x	Open	Closed	Open	Closed

266MHz	66MHz	4x	Closed	Open	Closed	Closed
300MHz	66MHz	4.5x	Closed	Open	Open	Closed
333MHz	66MHz	5x	Open	Open	Closed	Closed
366MHz	66MHz	5.5x	Open	Open	Open	Closed
400MHz	66MHz	6x	Closed	Closed	Closed	Open
433MHz	66MHz	6.5x	Closed	Closed	Open	Open
466MHz	66MHz	7x	Open	Closed	Closed	Open
300MHz	100MHz	3x	Open	Closed	Closed	Closed
350MHz	100MHz	3.5x	Open	Closed	Open	Closed
400MHz	100MHz	4x	Closed	Open	Closed	Closed
450MHz	100MHz	4.5x	Closed	Open	Open	Closed
500MHz	100MHz	5x	Open	Open	Closed	Closed

USB SELECTION		
Setting	**JP4**	**JP5**
Front USB	Pins 1 & 2 closed	Pins 1 & 2 closed
Back USB	Pins 2 & 3 closed	Pins 2 & 3 closed