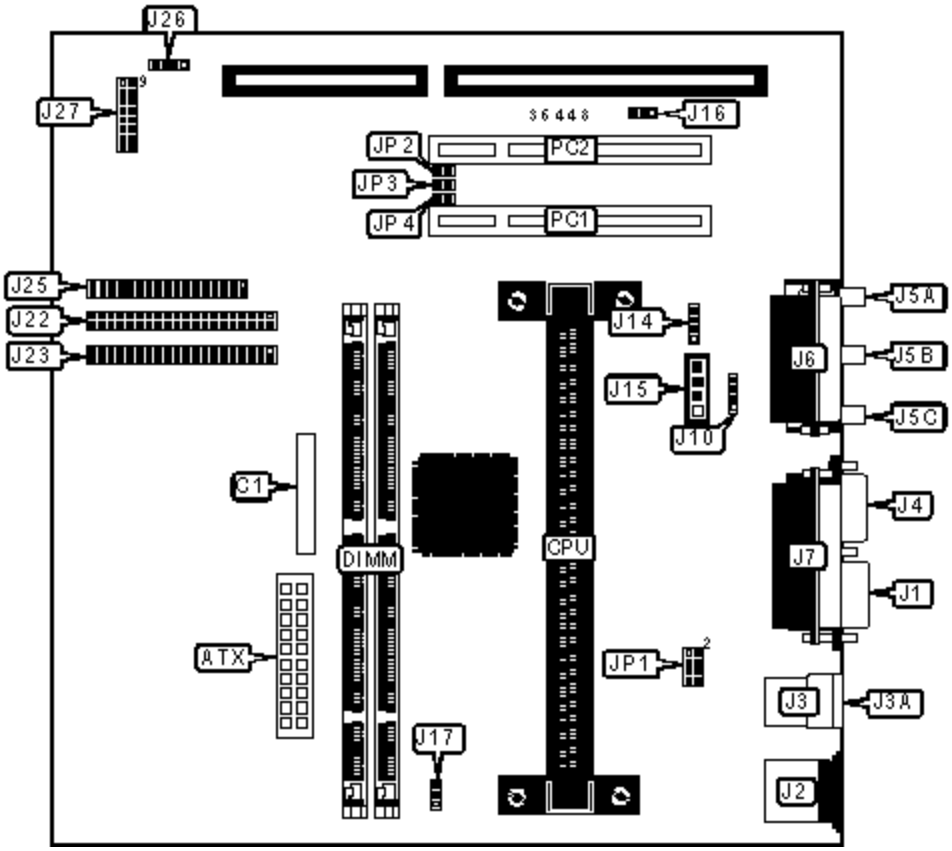
BCM ADVANCED RESEARCH, INC.

IN440ZX

Device Type	Mainboard
Processor	Pentium II/Celeron
Processor Speed	233/266/300/333/366/350/400/433/450/500MHz
Chip Set	Intel 440ZX
Video Chip Set	Unidentified
Maximum Onboard Memory	512MB (SDRAM supported)
Maximum Video Memory	8MB
Audio Chip Set	Vortex
Cache	0/128/512KB (located on the CPU)
BIOS	Award
Dimensions	220mm x 220mm
I/O Options	32-bit PCI slots (2), floppy drive interface, game/MIDI port, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), VGA port, IR connector, USB connectors (2), ATX power connector, line in, line out, microphone in, audio in - CD-ROM, wake on LAN connector



CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
ATX power connector	ATX	Wake on LAN connector	J16
VMI connector	C1	CPU fan power	J17
Serial port 1	J1	IDE interface 1	J22
PS/2 mouse port	J2	IDE interface 2	J23
USB connector 1	J3	Floppy drive interface	J25

USB connector 2	J3A	Speaker	J26
VGA port	J4	IDE interface LED	J27/pins 1 & 2
Microphone in	J5A	Reset switch	J27/pins 3 & 4
Line in	J5B	IR connector	J27/pins 5 - 8
Line out	J5C	Power LED	J27/pins 9 & 10
Game/MIDI port	J6	Soft off power supply	J27/pins 11 & 12
Parallel port	J7	Green PC connector	J27/pins 13 & 14
Telephony connector	J10	32-bit PCI slots	PC1 - PC2
Auxiliary in	J14		
Audio in - CD-ROM	J15		

USER CONFIGURABLE SETTINGS			
Function		**Label**	**Position**
»	CMOS memory normal operation	JP2	Open
	CMOS memory clear	JP2	Closed
»	Factory configured - do not alter	JP3	Unidentified
»	Factory configured - do not alter	JP4	Unidentified

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
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) 8M x 64	(1) 8M x 64
128MB	(1) 16M x 64	None
136MB	(1) 16M x 64	(1) 1M x 64
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
256MB	(1) 32M x 64	None
264MB	(1) 32M x 64	(1) 1M x 64

DIMM CONFIGURATION (CON'T)		
Size	**Bank 0**	**Bank 1**
272MB	(1) 32M x 64	(1) 2M x 64
288MB	(1) 32M x 64	(1) 4M x 64
320MB	(1) 32M x 64	(1) 8M x 64
384MB	(1) 32M x 64	(1) 16M x 64
512MB	(1) 32M x 64	(1) 32M x 64
Note: Board accepts SDRAM memory.		

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

VIDEO MEMORY CONFIGURATION
Note: The location of the video memory is unidentified.

CPU SPEED SELECTION (CELERON)				
CPU speed	**Clock speed**	**Multiplier**	**SW1/pins 3 & 7**	**SW1/pins 4 & 8**
233MHz	66MHz	3.5x	Closed	Open
266MHz	66MHz	4x	Open	Closed
300MHz	66MHz	4.5x	Open	Closed
333MHz	66MHz	5x	Open	Open
400MHz	66MHz	5.5x	Open	Open
433MHz	66MHz	6x	Closed	Closed

CPU SPEED SELECTION (CELERON, CON'T)				
CPU speed	**Clock speed**	**Multiplier**	**SW1/pins 3 & 7**	**SW1/pins 4 & 8**
233MHz	66MHz	3.5x	Closed	Open
266MHz	66MHz	4x	Closed	Closed
300MHz	66MHz	4.5x	Closed	Open
333MHz	66MHz	5x	Closed	Closed
400MHz	66MHz	5.5x	Closed	Open
433MHz	66MHz	6x	Open	Closed

CPU SPEED SELECTION (PENTIUM II)				
CPU speed	**Clock speed**	**Multiplier**	**SW1/pins 3 & 7**	**SW1/pins 4 & 8**
233MHz	66MHz	3.5x	Closed	Open
266MHz	66MHz	4x	Open	Closed

300MHz	66MHz	4.5x	Open	Closed
333MHz	66MHz	5x	Open	Open
366MHz	66MHz	5.5x	Open	Open
350MHz	100MHz	3.5x	Closed	Open
400MHz	100MHz	4x	Open	Closed
450MHz	100MHz	4.5x	Open	Closed
500MHz	100MHz	5x	Open	Open

CPU SPEED SELECTION (PENTIUM II,.CON'T)				
CPU speed	**Clock speed**	**Multiplier**	**SW1/pins 3 & 7**	**SW1/pins 4 & 8**
233MHz	66MHz	3.5x	Closed	Open
266MHz	66MHz	4x	Closed	Closed
300MHz	66MHz	4.5x	Closed	Open
333MHz	66MHz	5x	Closed	Closed
366MHz	66MHz	5.5x	Closed	Open
350MHz	100MHz	3.5x	Closed	Open
400MHz	100MHz	4x	Closed	Closed
450MHz	100MHz	4.5x	Closed	Open
500MHz	100MHz	5x	Closed	Closed