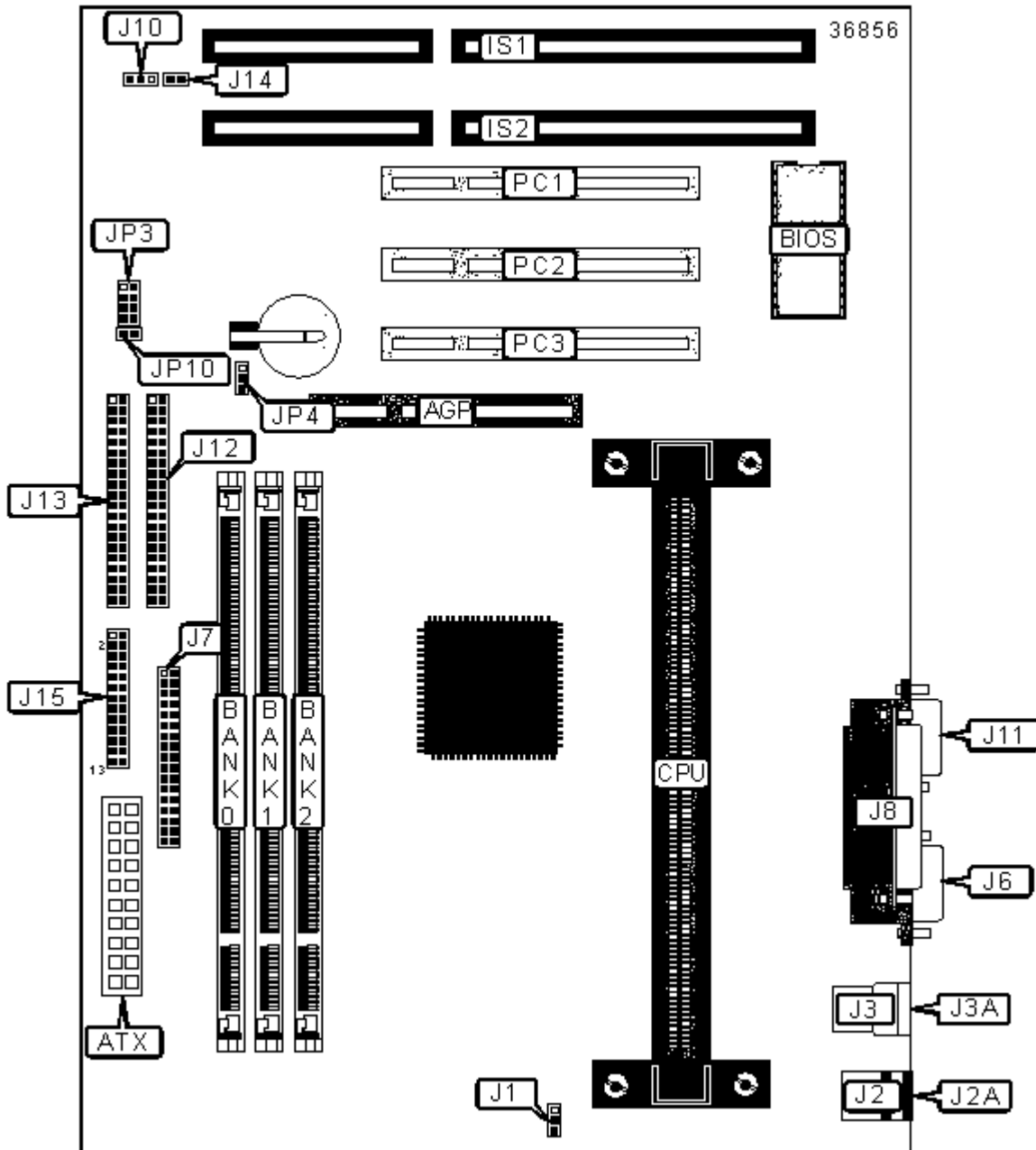


OCEAN INFORMATION SYSTEMS, INC.

RHINO II BX-SATX

Device Type	Mainboard
Processor	Pentium II
Processor Speed	233/266/300/350/400/450MHz
Chip Set	Intel 440BX
Maximum Onboard Memory	384MB (SDRAM supported)
Cache	256/512KB (located on the Pentium II CPU)
BIOS	Award
Dimensions	265mm x 193mm
I/O Options	32-bit PCI slots (3), 16-bit ISA slots (2), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 keyboard port, PS/2 mouse port, serial ports (2), IR connector, USB ports (2), ATX power connector, AGP slot, Wake-on-LAN connector, Wake-on-modem connector



CONNECTIONS

Purpose	Location	Purpose	Location
AGP slot	AGP	IDE interface 2	J12
ATX power connector	ATX	IDE interface 1	J13
16-bit ISA slots	IS1 - IS2	Wake-on-modem connector	J14
CPU fan power	J1	Speaker	J15/Pins 1 - 4
PS/2 keyboard port	J2	Power LED	J15/Pins 5 - 7
PS/2 mouse port	J2A	Green PC LED	J15/Pins 8 & 9
USB port 1	J3	Power switch	J15/Pins 10 & 11
USB port 2	J3A	Reset switch	J15/Pins 12 & 13
Serial port 1	J6	Green PC switch	J15/Pins 17 & 18
Floppy drive interface	J7	IDE interface LED	J15/Pins 19 - 21
Parallel port	J8	IR connector	J15/Pins 22 - 26
Wake-on-LAN connector	J10	32-bit PCI slots	PC1 - PC3
Serial port 2	J11		

USER CONFIGURABLE SETTINGS

Function		Label	Position
	Clock speed set to 66MHz	JP10	Closed
	Clock speed set to 100MHz	JP10	Open

DIMM CONFIGURATION

Size	Bank 0	Bank 1	Bank 2
8MB	(1) 1M x 64	None	None
16MB	(1) 1M x 64	(1) 1M x 64	None
16MB	(1) 2M x 64	None	None
24MB	(1) 1M x 64	(1) 1M x 64	(1) 1M x 64
32MB	(1) 2M x 64	(1) 2M x 64	None
32MB	(1) 4M x 64	None	None
32MB	(1) 2M x 64	(1) 1M x 64	(1) 1M x 64

48MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
48MB	(1) 4M x 64	(1) 1M x 64	(1) 1M 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
80MB	(1) 8M x 64	(1) 1M x 64	(1) 1M 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
144MB	(1) 16M x 64	(1) 1M x 64	(1) 1M 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
272MB	(1) 32M x 64	(1) 1M x 64	(1) 1M 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
Note: Board supports SDRAM memory.			

CACHE CONFIGURATION

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

CPU SPEED SELECTION

CPU speed	Clock speed	Multiplier	JP3/Pins 1 &	JP3/Pins 3 &	JP3/Pins 5 &	JP3/Pins 7 &
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			2	4	6	8
233MHz	66MHz	3.5x	Closed	Open	Open	Closed
266MHz	66MHz	4x	Closed	Closed	Closed	Open
300MHz	66MHz	4.5x	Closed	Open	Closed	Open
300MHz	100MHz	3x	Open	Closed	Open	Closed
333MHz	66MHz	5x	Closed	Closed	Open	Open
350MHz	100MHz	3.5x	Open	Open	Open	Closed
400MHz	100MHz	4x	Open	Closed	Closed	Open
450MHz	100MHz	4.5x	Open	Open	Closed	Open

Note: Pins designated should be in the closed position.

CMOS SELECTION	
Setting	JP4
CMOS memory normal operation	Pins 1 & 2 closed
CMOS memory clear	Pins 2 & 3 closed
On-board battery disabled	Open