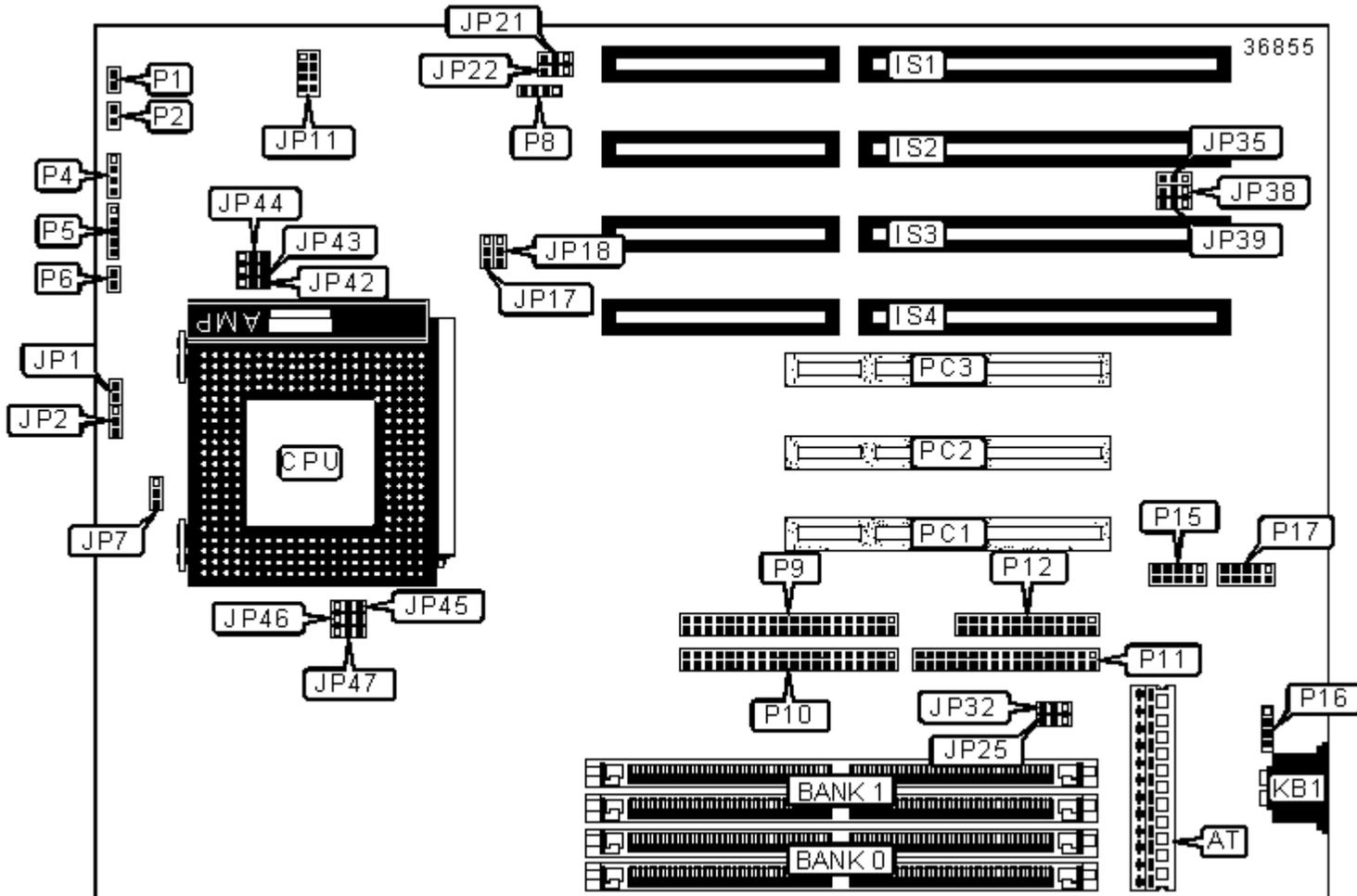


OCEAN INFORMATION SYSTEMS, INC.

RHINO 8

Device Type	Mainboard
Processor	CX 6X86/AM K5/Pentium
Processor Speed	75/90/100/120/133/150/166/180/200MHz
Chip Set	OPTI
Maximum Onboard Memory	128MB (EDO supported)
Cache	256KB
BIOS	Unidentified
Dimensions	216mm x 279mm
I/O Options	32-bit PCI slots (3), 16-bit ISA slots (4), floppy drive interface, IDE interfaces (2), AT Keyboard port, parallel port, PS/2 mouse interface, serial interfaces (2), USB interface, AT power connector



CONNECTIONS

Purpose	Location	Purpose	Location
AT power connector	AT	IDE interface 1	P9
16-bit ISA slots	IS1 - IS4	IDE interface 2	P10
AT keyboard port	KB1	Floppy drive interface	P11
Reset switch	P1	Parallel interface	P12

Turbo LED	P2	Serial interface 1	P15
Speaker	P4	PS/2 mouse interface	P16
Power LED & keylock	P5	Serial interface 2	P17
IDE interface LED	P6	32-bit PCI slots	PC1 - PC3
External battery connector	P8		

USER CONFIGURABLE SETTINGS

Function		Label	Position
»	Factory configured - do not alter	JP1	Unidentified
»	Factory configured - do not alter	JP11/Pins 7 & 8	Unidentified
»	On-board battery selected	JP21	Pins 1 & 2 closed
	External battery selected	JP21	Pins 2 & 3 closed
»	Factory configured - do not alter	JP22	Unidentified
»	FP mode DRAM selected	JP25	Pins 2 & 3 closed
	EDO DRAM selected	JP25	Pins 1 & 2 closed
»	CMOS memory normal operation	JP29	Pins 1 & 2 closed
	CMOS memory clear	JP29	Pins 2 & 3 closed
»	Factory configured - do not alter	JP32	Unidentified
»	Factory configured - do not alter	JP36	Unidentified

SIMM CONFIGURATION

Size	Bank 0	Bank 1
8MB	(2) 1M x 36	None
16MB	(2) 2M x 36	None
16MB	(2) 1M x 36	(2) 1M x 36
24MB	(2) 2M x 36	(2) 1M x 36
32MB	(2) 4M x 36	None
32MB	(2) 2M x 36	(2) 2M x 36
40MB	(2) 4M x 36	(2) 1M x 36

48MB	(2) 4M x 36	(2) 2M x 36
64MB	(2) 8M x 36	None
64MB	(2) 4M x 36	(2) 4M x 36
72MB	(2) 8M x 36	(2) 1M x 36
80MB	(2) 8M x 36	(2) 2M x 36
96MB	(2) 8M x 36	(2) 4M x 36
128MB	(2) 8M x 36	(2) 8M x 36

CPU SPEED SELECTION (CX 6X86)

CPU speed	Clock speed	Multiplier	JP2	JP7	JP17	JP18
120MHz	50MHz	2x	1 & 2	2 & 3	2 & 3	1 & 2
150MHz	60MHz	2x	1 & 2	2 & 3	1 & 2	2 & 3
166MHz	66MHz	2x	1 & 2	2 & 3	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K5)

CPU speed	Clock speed	Multiplier	JP2	JP7	JP17	JP18
75MHz	50MHz	1.5x	2 & 3	2 & 3	2 & 3	1 & 2
90MHz	60MHz	1.5x	2 & 3	2 & 3	1 & 2	2 & 3
100MHz	66MHz	1.5x	2 & 3	2 & 3	1 & 2	1 & 2
133MHz	66MHz	1.5x	2 & 3	2 & 3	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (PENTIUM)

CPU speed	Clock speed	Multiplier	JP2	JP7	JP17	JP18
75MHz	50MHz	1.5x	2 & 3	2 & 3	2 & 3	1 & 2
90MHz	60MHz	1.5x	2 & 3	2 & 3	1 & 2	2 & 3
100MHz	66MHz	1.5x	2 & 3	2 & 3	1 & 2	1 & 2
120MHz	60MHz	2x	1 & 2	2 & 3	1 & 3	2 & 3

133MHz	66MHz	2x	1 & 2	2 & 3	1 & 2	1 & 2
150MHz	60MHz	2.5x	1 & 2	1 & 2	1 & 2	2 & 3
166MHz	66MHz	2.5x	1 & 2	1 & 2	1 & 2	1 & 2
180MHz	60MHz	3x	2 & 3	1 & 2	1 & 2	2 & 3
200MHz	66MHz	3x	2 & 3	1 & 2	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU VOLTAGE SELECTION (DUAL)

Voltage	JP11	JP42	JP43	JP44	JP45	JP46	JP47
2.8V	5 & 6	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

CPU VOLTAGE SELECTION (SINGLE)

Voltage	JP11	JP42	JP43	JP44	JP45	JP46	JP47
3.3V	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2
3.5V	3 & 4	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

PS/2 MOUSE SELECTION

Setting		JP35	JP38	JP39
»	Disabled	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
	Enabled	Pins 2 & 3 closed	Pins 1 & 2 closed	Pins 2 & 3 closed