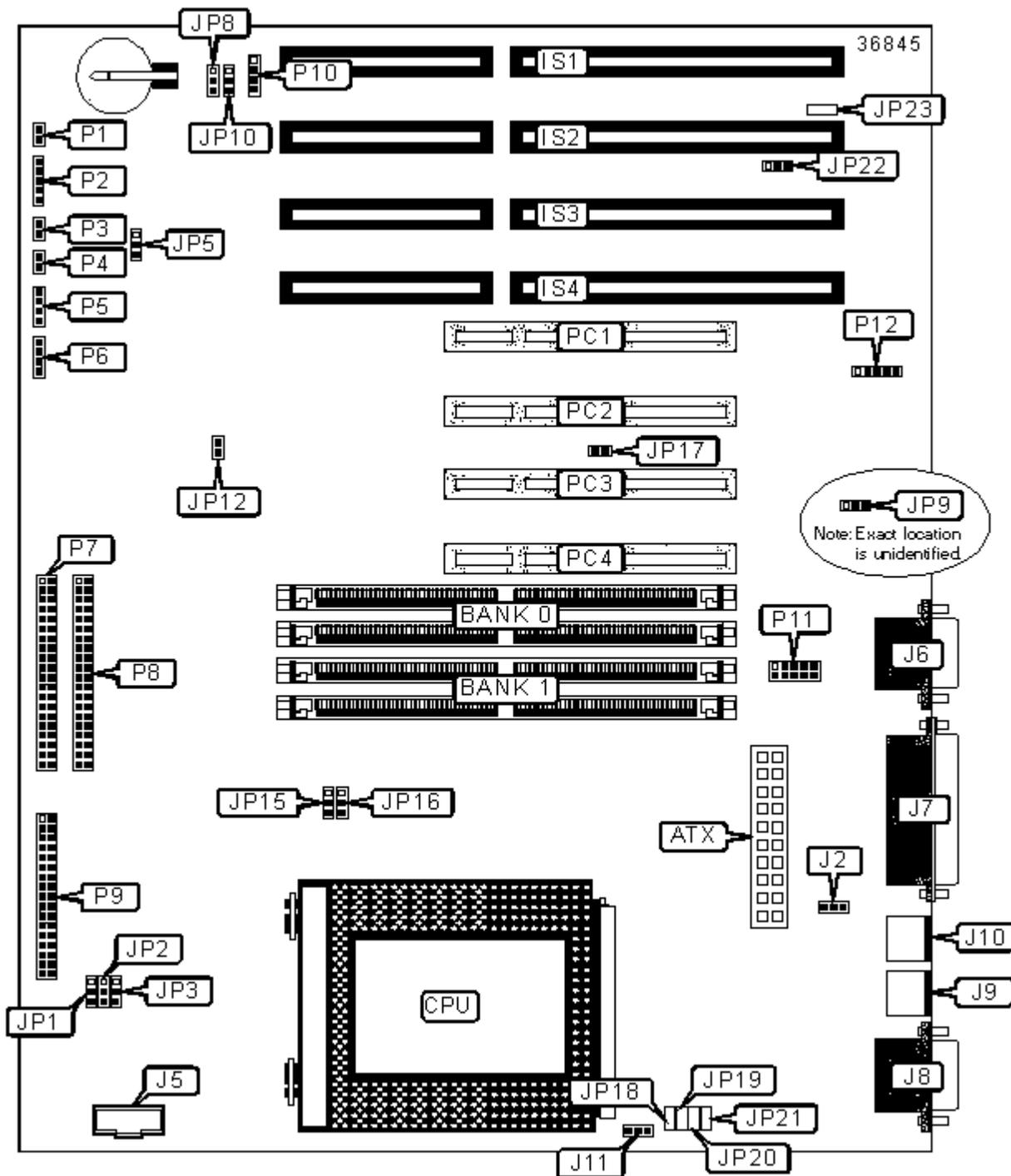


OCEAN INFORMATION SYSTEMS, INC.

RHINO PRO 1

Device Type	Mainboard
Processor	Pentium Pro
Processor Speed	150/166/180/200/233MHz
Chip Set	Intel 440FX
Maximum Onboard Memory	256MB (EDO supported)
Cache	Unidentified
BIOS	Award
Dimensions	304mm x 243mm
I/O Options	32-bit PCI slots (4), 16-bit ISA slots (4), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, PS/2 keyboard port, serial ports (2), IR connector, USB interface, ATX power connector, External Power connector



CONNECTIONS

Purpose	Location	Purpose	Location
ATX power connector	ATX	Keylock	P2
16-bit ISA slots	IS1 - IS4	Turbo LED	P3
System fan power	J2	Power switch	P4
Unidentified	J5	PC speaker	P5
Serial port 1	J6	IDE interface LED	P6

Parallel port	J7	IDE interface 1	P7
Serial port 2	J8	IDE interface 2	P8
PS/2 mouse port	J9	Floppy drive interface	P9
PS/2 keyboard port	J10	External power connector	P10
CPU fan power	J11	USB interface	P11
Green PC connector	JP12	IR connector	P12
Reset switch	P1	32-bit PCI slots	PC1 - PC4

USER CONFIGURABLE SETTINGS

Function		Label	Position
	Flash EEPROM size 1MB	JP5	Pins 1 & 2 closed
	Flash EEPROM size 2MB	JP5	Pins 2 & 3 closed
»	CMOS memory normal operation	JP8	Pins 1 & 2 closed
	CMOS memory clear	JP8	Pins 2 & 3 closed
»	PS/2 mouse enabled	JP9	Pins 1 & 2 closed
	PS/2 mouse disabled	JP9	Pins 2 & 3 closed
	Internal battery selected	JP10	Pins 1 & 2 closed
	External battery selected	JP10	Pins 2 & 3 closed
	Normal VGA mode	JP17	Closed
	Special VGA mode	JP17	Open
»	Factory configured - do not alter	JP18	Unidentified
»	Factory configured - do not alter	JP19	Unidentified
»	Factory configured - do not alter	JP20	Unidentified
»	Factory configured - do not alter	JP21	Unidentified
	System shut down via OS enabled	JP22	Pins 1 & 2 closed
	System shut down via OS disabled	JP22	Pins 2 & 3 closed

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
128MB	(2) 16M x 36	None
136MB	(2) 16M x 36	(2) 1M x 36
144MB	(2) 16M x 36	(2) 2M x 36
160MB	(2) 16M x 36	(2) 4M x 36
192MB	(2) 16M x 36	(2) 8M x 36
256MB	(2) 16M x 36	(2) 16M x 36

Note: Board accepts EDO memory.

CPU SPEED SELECTION							
CPU Speed	Clock Speed	Multiplier	JP1	JP2	JP3	JP15	JP16
150MHz	60MHz	2.5x	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3
166MHz	66MHz	2.5x	1 & 2	1 & 2	2 & 3	2 & 3	1 & 2
180MHz	60MHz	3x	1 & 2	2 & 3	1 & 2	1 & 2	2 & 3

200MHz	66MHz	3x	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2
233MHz	66MHz	3.5x	1 & 2	2 & 3	2 & 3	2 & 3	1 & 2
Note: Designated pins should be in the closed position.							