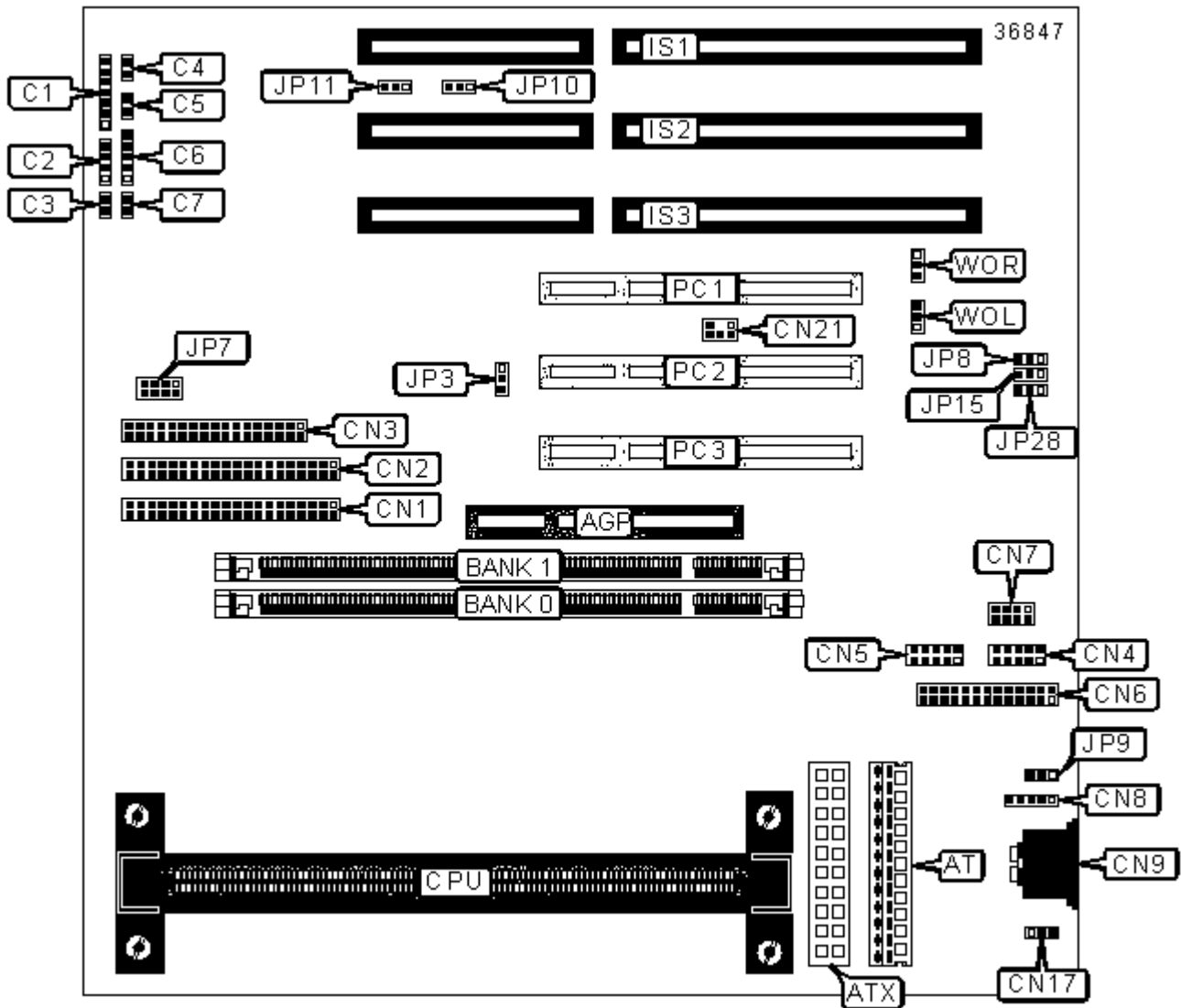


OCEAN INFORMATION SYSTEMS, INC.

RHINO II EX

Device Type	Mainboard
Processor	Celeron/Pentium II
Processor Speed	233/266/300/333MHz
Chip Set	Intel 440EX
Maximum Onboard Memory	256/512MB (EDO & SDRAM supported)
Cache	0/128/256/512KB (located on the CPU)
BIOS	Award
Dimensions	Unidentified
I/O Options	32-bit PCI slots (3), 16-bit ISA slots (3), floppy drive interface, IDE interfaces (2), parallel interface, PS/2 mouse interface, Keyboard port, IR connector, serial interfaces (2), USB interface, ATX power connector, AGP slot, Wake-on-modem connector, Wake-on-LAN connector, SB-link connector, AT power connector



CONNECTIONS			
Purpose	Location	Purpose	Location
AGP slot	AGP	Serial interface 2	CN5

AT power connector	AT	Parallel interface	CN6
ATX power connector	ATX	USB interface	CN7
IR connector	C1	PS/2 mouse interface	CN8
PC speaker	C2	Keyboard port	CN9
Reset switch	C3	CPU fan power	CN17
Power switch	C4	SB-link connector	CN21
Case LED	C5	16-bit ISA slots	IS1 - IS3
Power LED & keylock	C6	Chassis fan power 1	JP10
IDE interface LED	C7	Chassis fan power 2	JP11
IDE interface 1	CN1	32-bit PCI slots	PC1 - PC3
IDE interface 2	CN2	Wake-on-LAN connector	WOL
Floppy drive interface	CN3	Wake-on-modem connector	WOR
Serial interface 1	CN4		

USER CONFIGURABLE SETTINGS

Function		Label	Position
»	CMOS memory normal operation	JP3	Pins 1 & 2 closed
	CMOS memory clear	JP3	Pins 2 & 3 closed
»	Factory configured - do not alter	JP8	Unidentified
»	AT power supply installed	JP9	Pins 1 & 2 closed
	ATX power supply installed	JP9	Pins 2 & 3 closed
»	Factory configured - do not alter	JP15	Unidentified
»	Factory configured - do not alter	JP17	Unidentified
»	Keyboard power-on normal operation	JP28	Pins 1 & 2 closed
	Keyboard power-on clear password	JP28	Pins 2 & 3 closed

DIMM CONFIGURATION

Size	Bank 0	Bank 1
8MB	(1) 1M x 64	None

16MB	(1) 1M x 64	(1) 1M x 64
16MB	(1) 2M x 64	None
24MB	(1) 2M x 64	(1) 1M x 64
32MB	(1) 2M x 64	(1) 2M x 64
32MB	(1) 4M x 64	None
40MB	(1) 4M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 2M x 64
64MB	(1) 4M x 64	(1) 4M x 64
64MB	(1) 8M x 64	None
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
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 supports EDO & SDRAM memory.

*Note: Memory configurations require EDO memory. Maximum EDO is 512MB. Maximum SDRAM is 256MB.

CACHE CONFIGURATION

Note: 256KB/512KB cache is located on the Pentium II CPUs. 128KB cache is located on the Celeron 300A and greater CPUs.