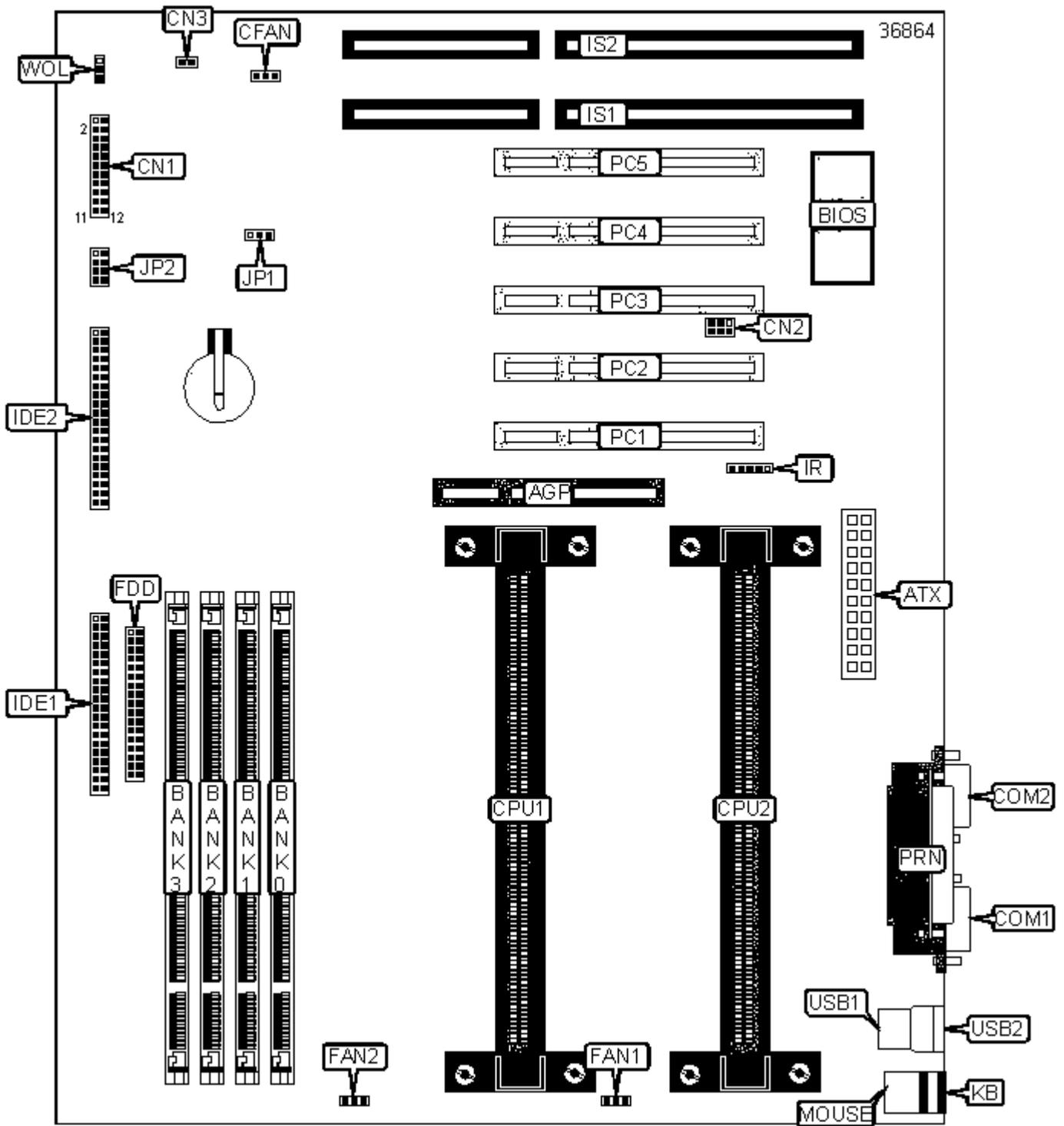


## **PINE TECHNOLOGY**

TL-IBX3-19

<b>Device Type</b>	Mainboard
<b>Processor</b>	Pentium II (2)
<b>Processor Speed</b>	233/266/300/333/350/400/450MHz
<b>Chip Set</b>	Intel 440BX
<b>Maximum Onboard Memory</b>	1024MB (SDRAM supported)
<b>Cache</b>	256/512KB (located on the Pentium II CPU)
<b>BIOS</b>	Award
<b>Dimensions</b>	228mm x 305mm
<b>I/O Options</b>	32-bit PCI slots (5), 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	CPU fan power 2	FAN1
ATX power connector	ATX	CPU fan power 1	FAN2
Chassis fan power	CFAN	Floppy drive interface	FDD
Green PC LED	CN1/Pins 1 - 3	IDE interface 1	IDE1

IDE interface LED	CN1/Pins 4 - 7	IDE interface 2	IDE2
Reset switch	CN1/Pins 8 & 9	IR connector	IR
Power switch	CN1/Pins 10 & 11	16-bit ISA slots	IS1 - IS2
Speaker	CN1/Pins 12 - 15	PS/2 keyboard port	KB
Green PC connector	CN1/Pins 16 & 17	PS/2 mouse port	MOUSE
Power LED & keylock	CN1/Pins 18 - 22	32-bit PCI slots	PC1 - PC5
SB link connector	CN2	Parallel port	PRN
Wake-on-modem connector	CN3	USB port 1	USB1
Serial port 1	COM1	USB port 2	USB2
Serial port 2	COM2	Wake-on-LAN connector	WOL

### USER CONFIGURABLE SETTINGS

Function		Label	Position
»	CMOS memory normal operation	JP1	Pins 1 & 2 closed
	CMOS memory clear	JP1	Pins 2 & 3 closed

### DIMM CONFIGURATION

Size	Bank 0	Bank 1	Bank 2	Bank 3
8MB	(1) 1M x 64	None	None	None
16MB	(1) 1M x 64	(1) 1M x 64	None	None
16MB	(1) 2M x 64	None	None	None
24MB	(1) 1M x 64	(1) 1M x 64	(1) 1M x 64	None
32MB	(1) 1M x 64			
32MB	(1) 2M x 64	(1) 2M x 64	None	None
32MB	(1) 4M x 64	None	None	None
48MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64	None
64MB	(1) 2M x 64			
64MB	(1) 4M x 64	(1) 4M x 64	None	None
64MB	(1) 8M x 64	None	None	None

80MB	(1) 4M x 64	(1) 4M x 64	(1) 1M x 64	(1) 1M x 64
96MB	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64	None
96MB	(1) 4M x 64	(1) 4M x 64	(1) 2M x 64	(1) 2M x 64
128MB	(1) 4M x 64			
128MB	(1) 8M x 64	(1) 8M x 64	None	None
128MB	(1) 16M x 64	None	None	None
144MB	(1) 8M x 64	(1) 8M x 64	(1) 1M x 64	(1) 1M x 64
160MB	(1) 8M x 64	(1) 8M x 64	(1) 2M x 64	(1) 2M x 64
192MB	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64	None
192MB	(1) 8M x 64	(1) 8M x 64	(1) 4M x 64	(1) 4M x 64
256MB	(1) 8M x 64			
256MB	(1) 16M x 64	(1) 16M x 64	None	None
256MB	(1) 32M x 64	None	None	None
272MB	(1) 16M x 64	(1) 16M x 64	(1) 1M x 64	(1) 1M x 64
288MB	(1) 16M x 64	(1) 16M x 64	(1) 2M x 64	(1) 2M x 64
320MB	(1) 16M x 64	(1) 16M x 64	(1) 4M x 64	(1) 4M x 64
384MB	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64	None
384MB	(1) 16M x 64	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64
512MB	(1) 16M x 64			
512MB	(1) 32M x 64	(1) 32M x 64	None	None
528MB	(1) 32M x 64	(1) 32M x 64	(1) 1M x 64	(1) 1M x 64
544MB	(1) 32M x 64	(1) 32M x 64	(1) 2M x 64	(1) 2M x 64
576MB	(1) 32M x 64	(1) 32M x 64	(1) 4M x 64	(1) 4M x 64
640MB	(1) 32M x 64	(1) 32M x 64	(1) 8M x 64	(1) 8M x 64
768MB	(1) 32M x 64	(1) 32M x 64	(1) 32M x 64	None
768MB	(1) 32M x 64	(1) 32M x 64	(1) 16M x 64	(1) 16M x 64
1024MB	(1) 32M x 64			

Note: Board supports SDRAM memory.

## CACHE CONFIGURATION

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

## CPU SPEED SELECTION (PENTIUM)

CPU speed	Clock speed	Multiplier	JP2
233MHz	66MHz	3.5x	Pins 1 & 2, 7 & 8 closed
266MHz	66MHz	4x	Pins 3 & 4, 5 & 6, 7 & 8 closed
300MHz	66MHz	4.5x	Pins 3 & 4, 7 & 8 closed
300MHz	100MHz	3x	Pins 1 & 2, 5 & 6, 7 & 8 closed
333MHz	66MHz	5x	Pins 5 & 6, 7 & 8 closed
350MHz	100MHz	3.5x	Pins 1 & 2, 7 & 8 closed
400MHz	100MHz	4x	Pins 3 & 4, 5 & 6, 7 & 8 closed
450MHz	100MHz	4.5x	Pins 3 & 4, 7 & 8 closed
500MHz	100MHz	5x	Pins 5 & 6, 7 & 8 closed