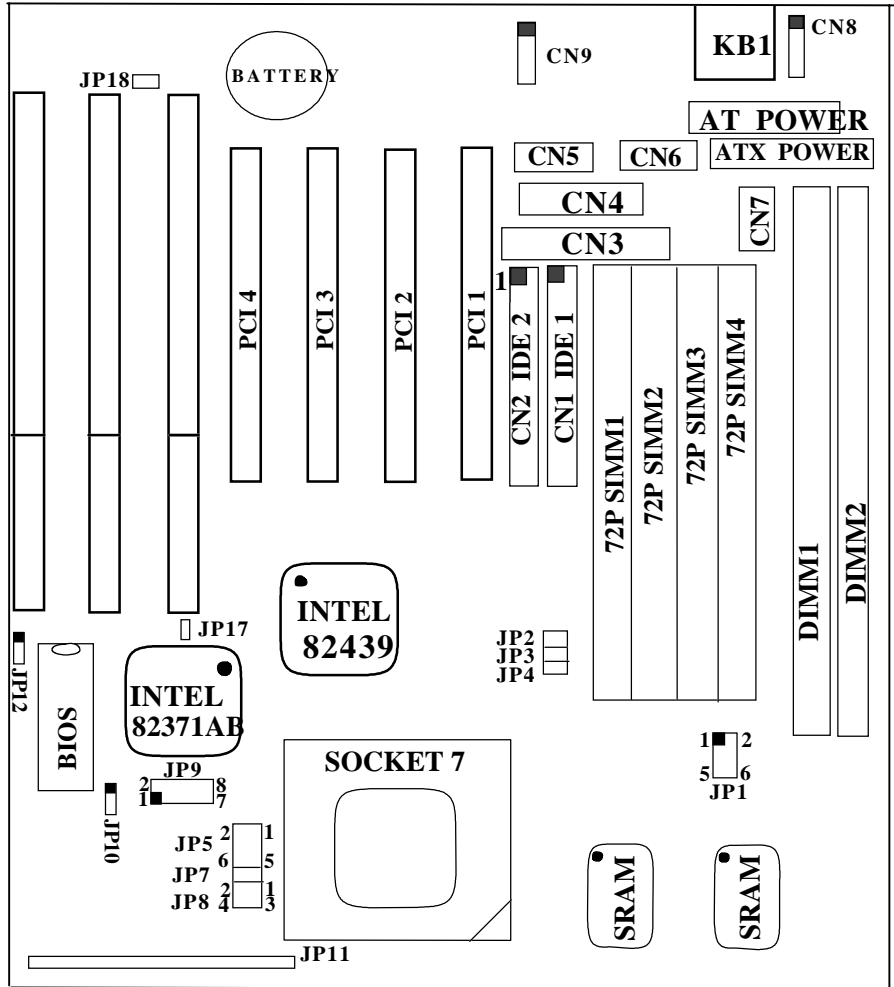


MAIN BOARD  
USER'S MANUAL  
(MODEL NO : SV-113)

# 1-1 LAYOUT REFERENCE



## 2-2JUMPER SETTINGS

INTEL® CPU		CLOCK SPEED	RATIO	JP2	JP3	JP4	JP5	JP7	JP8	JP9
P54C 75	3.3V	50MHZ	1.5	ON	ON	ON	OFF	ON	OFF	1-2,5-6,7-8
P54C 90	3.3V	60MHZ	1.5	OFF	OFF	ON	OFF	ON	OFF	1-2,5-6,7-8
P54C 100	3.3V	66MHZ	1.5	OFF	OFF	OFF	OFF	ON	OFF	1-2,5-6,7-8
P54C 120	3.3V	60MHZ	2	OFF	OFF	ON	1-2	ON	OFF	1-2,5-6,7-8
P54C 133	3.3V	66MHZ	2	OFF	OFF	OFF	1-2	ON	OFF	1-2,5-6,7-8
P54C 150	3.3V	60MHZ	2.5	OFF	OFF	ON	1-2, 3-4	ON	OFF	1-2,5-6,7-8
P54C 166	3.3V	66MHZ	2.5	OFF	OFF	OFF	1-2, 3-4	ON	OFF	1-2,5-6,7-8
P55C 166	2.8/3.3V	66MHZ	2.5	OFF	OFF	OFF	1-2, 3-4	OFF	1-2,3-4	7-8
P54C 180	3.3V	60MHZ	3	OFF	OFF	ON	3-4	ON	OFF	1-2,5-6,7-8
P54C 200	3.3V	66MHZ	3	OFF	OFF	OFF	3-4	ON	OFF	1-2,5-6,7-8
P55C 200	2.8/3.3V	66MHZ	3	OFF	OFF	OFF	3-4	OFF	1-2,3-4	7-8
P55C 233	2.8/3.3V	66MHZ	3.5	OFF	OFF	OFF	OFF	OFF	1-2,3-4	7-8

AMD® CPU FOR (PRXXXAB)		CLOCK SPEED	RATIO	JP2	JP3	JP4	JP5	JP7	JP8	JP9
PR75	3.52V	50MHZ	1.5	ON	ON	ON	OFF	ON	OFF	1-2,3-4,5-6,7-8
PR90/PR120	3.52V	60MHZ	1.5	OFF	OFF	ON	OFF	ON	OFF	1-2,3-4,5-6,7-8
PR100/PR133	3.52V	66MHZ	1.5	OFF	OFF	OFF	OFF	ON	OFF	1-2,3-4,5-6,7-8
PR166	3.52V	66MHZ	2.5	OFF	OFF	OFF	1-2, 3-4	ON	OFF	1-2,3-4,5-6,7-8
K6 PR166	2.9/3.3V	66MHZ	2.5	OFF	OFF	OFF	1-2, 3-4	OFF	1-2,3-4	1-2, 7-8
K6 PR200	2.9/3.3V	66MHZ	3	OFF	OFF	OFF	3-4	OFF	1-2,3-4	1-2, 7-8
K6 PR233	3.2/3.3V	66MHZ	3.5	OFF	OFF	OFF	OFF	OFF	1-2, 3-4	5-6, 7-8

CYRIX® CPU		CLOCK SPEED	RATIO	JP2	JP3	JP4	JP5	JP7	JP8	JP9
P120+	3.52V	50MHZ	2	ON	ON	ON	1-2	ON	OFF	1-2,3-4,5-6,7-8
P150+	3.52V	60MHZ	2	OFF	OFF	ON	1-2	ON	OFF	1-2,3-4,5-6,7-8
P166+	3.52V	66MHZ	2	OFF	OFF	OFF	1-2	ON	OFF	1-2,3-4,5-6,7-8
P150+ 6X86L	2.8/3.3V	60MHZ	2	OFF	OFF	ON	1-2	OFF	1-2, 3-4	7-8
P166+ 6X86L	2.8/3.3V	66MHZ	2	OFF	OFF	OFF	1-2	OFF	1-2, 3-4	7-8
MX PR166	2.9/3.3V	60MHZ	2.5	OFF	OFF	ON	1-2, 3-4	OFF	1-2, 3-4	1-2,7-8
MX PR166	2.9/3.3V	66MHZ	2	OFF	OFF	OFF	1-2	OFF	1-2, 3-4	1-2,7-8
MX PR200	2.9/3.3V	66MHZ	2.5	OFF	OFF	OFF	1-2, 3-4	OFF	1-2, 3-4	1-2,7-8

EXPLANATION OF JUMPER SETTING

JP1 : DIMM VOLTAGE SELECTOR

	3.3V DIMM	5V DIMM
JP1	3-5, 4-6	1-3, 2-4

JP2-JP4 CPU CLOCK SELECTOR

	50 MHZ	60 MHZ	66.6 MHZ
JP2	ON	OFF	OFF
JP3	ON	OFF	OFF
JP4	ON	ON	OFF

JP7,JP8 SINGLE /DUAL VOLTAGE CPU SELECTOR

	SINGLE VOLTAGE CPU	DUAL VOLTAGE CPU
JP7	ON	OFF
JP8	OFF	1-2, 3-4

⚠ CAUTION !

CPU WILL BE SERIOUSLY DAMAGED IF JP6 & JP8(1-2, 3-4) ARE SET "ON" SYNCHRONOUSLY.

JP5 :CPU FREQUENCY RATIO SELECTOR

	1.5 X	2.0 X	2.5 X	3.0 X	3.5 X
JP5	OFF	1-2	1-2, 3-4	3-4	OFF

NOTE : JP5 (PIN5, PIN6) RESERVED.

JP9 :VCORE VOLTAGE SELECT OR

JP9	VOLTAGE OUTPUT	JP9	VOLTAGE OUTPUT
1-2, 3-4, 5-6	3.50V	1-2, 7-8	2.90V
1-2, 5-6, 7-8	3.30V	7-8	2.80V
5-6, 7-8	3.20V	1-2, 5-6	2.50V
1-2, 3-4, 7-8	3.10V	1-2	2.10V
3-4, 7-8	3.00V	OFF	2.00V

JP10 : BATTERY SELECTOR

	NORMAL	CLEAR CMOS
JP10	1-2 (DEFAULT)	2-3

JP12 : FLASH ROM VOLTAGE SELECTOR

	5V FLASH ROM	12V FLASH ROM
JP12	1-2	2-3

JP17 : WIN95 SOFTWARE POWER DOWN SELECTOR

	ENABLED	DISABLED
JP17	ON	OFF

JP11 : CASE CONNECTOR

JP18 : AT / ATX POWER SELECTOR

	AT POWER	ATX POWER
JP18	OFF	ON

CN1,

CN2 :

PRIMARY / SECONDARY IDE CONNECTOR

PCI IDE controller connector supports up to four hard disk drive, CD-ROM, 120MB floppy (reserved for BIOS) and other devices to CN1 and CN2.

CN3 : FLOPPY DISK CONNECTOR

Standard floppy disk connector supports 360K, 720K, 1.2M, 1.44M and 2.88M floppy disk type.

CN4 : PARALLEL PORT CONNECTOR

PARALLEL port connector supports standard printer port, enhance parallel port (EPP), extended capabilities parallel port (ECP).

CN5, CN6 : SERIAL PORT CONNECTOR.

SERIAL port connector supports 16550a high speed communication port that send/receive 16 bytes fifos.

CN7 : USB (UNIVERSAL SERIAL BUS) CONNECTOR .  
 USB connector supports USB device.

USB PIN OUT			
USB1		USB2	
PIN1	+5V	PIN6	+5V
PIN2	USBP0-	PIN7	USBP1-
PIN3	USBP0+	PIN8	USBP1+
PIN4	GND	PIN9	GND
PIN5	GND	PIN10	GND

NOTE : USB (UNIVERSAL SERIAL BUS) AND IRCON CONNECTOR  
 ARE OPTIONAL.

CN8 : PS/2 MOUSE CONNECTOR.  
 mouse connector supports PS/2 mouse .

PS/2 MOUSE PIN OUT

PIN # 1	MOUSE CLOCK
PIN # 2	MOUSE DATA
PIN # 3	NONE
PIN # 4	GND
PIN # 5	VCC

CN9 : IRCON (INFRARED) CONNECTOR  
 IR connector supports IR device.

IR CONNECTOR PIN OUT				
PIN 1	PIN 2	PIN 3	PIN 4	PIN 5
VCC	NONE	RX	GND	TX

**NOTE : IR uses same I/O port as COM2. THERE is no any hardware jumper setting for IR/COM2 on this main board but customer needs to set proper BIOS setting for "IRDA " , "ASKIR" or**

**"DISABLED"(DEFAULT) UNDER "INFRA RED (IR)  
function" of  
"INTEGRATED Peripheral" according to the following table:**

	<b>IRDA 1.0</b>	<b>ASKIR</b>	<b>DISABLED</b>
(UNDER INTEGRATED PERIPHERALS)"INFRA RED (IR) FUNCTION "	USE IRDA 1.0 ON IRCON.	USE AMPLITUDE SHIFT KEYED IR ON IRCON .	USE COM2 (DEFAULT )