KAM-TRONIC COMPUTER CO., LTD.

P6NPI

Device Type	Mainboard
Processor	Pentium Pro
Processor Speed	133/150/166/180/200MHz
Chip Set	Intel 440FX
Maximum Onboard Memory	512MB (EDO supported)
Cache	256/512KB (located on Pentium Pro CPU)
BIOS	AMI
Dimensions	305mm x 244mm
I/O Options	32-bit PCI slots (4), floppy drive interface, green PC connector, IDE interfaces (2), Ultra Wide SCSI interface, Fast SCSI interface, parallel port, PS/2 mouse port, serial ports (2), IR connector, USB connector, ATX power connector
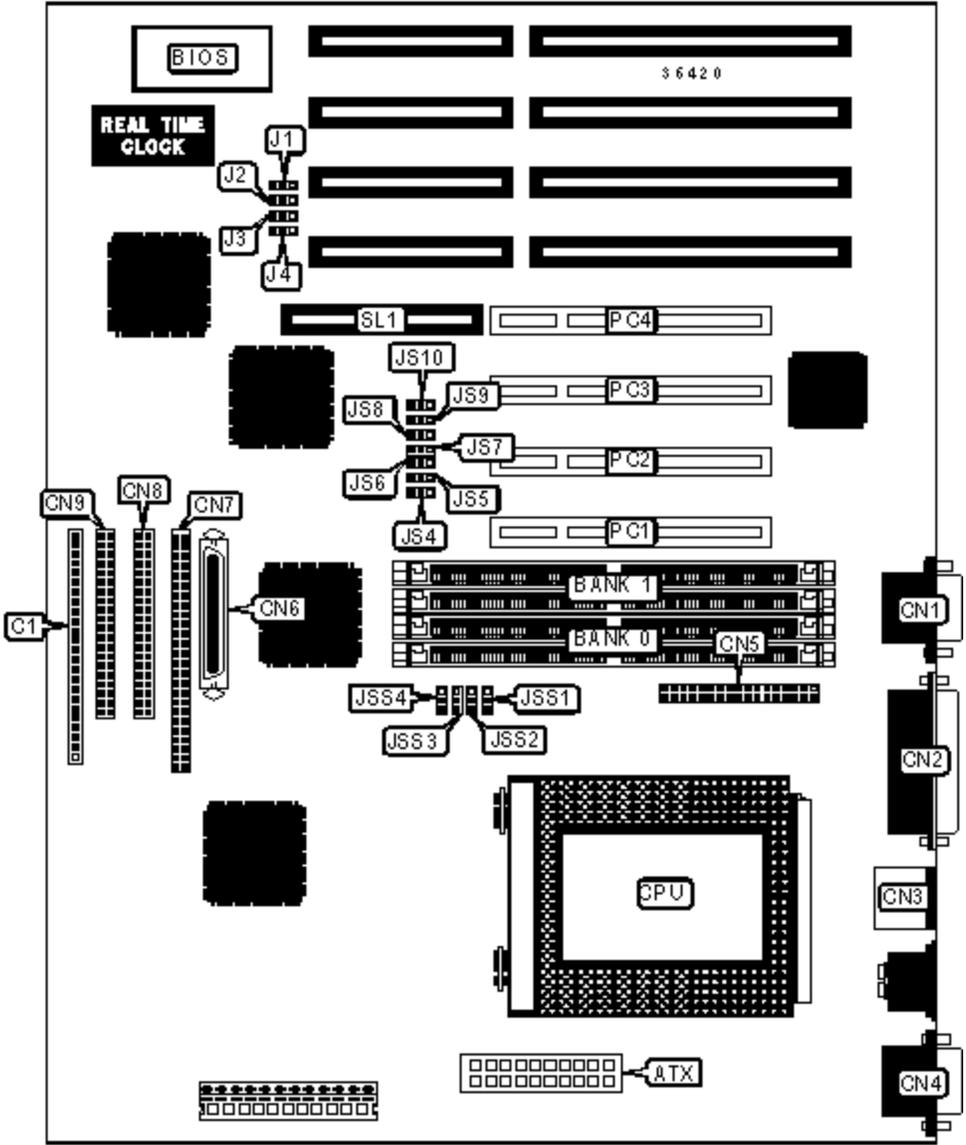
CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
ATX power connector	ATX	Parallel port	CN2
Soft on power	C1/pins 1 & 2	PS/2 mouse port	CN3

Turbo LED	C1/pins 3 & 4	Serial port 1	CN4
Power LED & keylock	C1/ pins 5 - 9	Ultra Wide SCSI interface	CN5
IDE interface LED	C1/pins 10 - 13	Fast SCSI interface	CN6
Speaker	C1/pins 14 - 17	IDE interface 1	CN7
Reset switch	C1/pins 18 & 19	IDE interface 2	CN8
Green PC connector	C1/pins 20 & 21	Floppy drive interface	CN9
IR connector	C1/pins 22 - 26	32-bit PCI slots	PC1 - PC4
Serial port 2	CN1	RAID slot	SL1

	Function	Label	Position
	Flash BIOS voltage select 12v	J1	Pins 1 & 2 closed
	Flash BIOS voltage select 5v	J1	Pins 2 & 3 closed
»	CMOS memory normal operation	J2	Pins 1 & 2 closed
	CMOS memory clear	J2	Pins 2 & 3 closed
»	Monitor type select color	J3	Pins 1 & 2 closed
	Monitor type select monochrome	J3	Pins 2 & 3 closed
»	Password normal operation	J4	Pins 1 & 2 closed
	Password clear	J4	Pins 2 & 3 closed
»	SCSI high byte termination select auto	JS8	Pins 1 & 2 closed
	SCSI high byte termination select always	JS8	Pins 2 & 3 closed
»	RAID support select normal	JS9	Pins 1 & 2 closed
	RAID support select ARO-1130 RAID card installed	JS9	Pins 2 & 3 closed
»	SCSI data bus width select Fast 8-bit	JS10	Pins 2 & 3 closed
	SCSI data bus width select Fast and Wide 16-bit	JS10	Pins 1 & 2 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

Size	Bank 0	Bank 1
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
256MB	(2) 32M x 36	None
264MB	(2) 32M x 36	(2) 1M x 36

272MB	(2) 32M x 36	(2) 2M x 36
288MB	(2) 32M x 36	(2) 4M x 36
320MB	(2) 32M x 36	(2) 8M x 36
384MB	(2) 32M x 36	(2) 16M x 36
512MB	(2) 32M x 36	(2) 32M x 36
Note: Board accepts EDO memory.		

CACHE CONFIGURATION

Note: 256KB/512KB cache is located on the Pentium Pro CPU.

CPU speed	Clock speed	Multiplier	JS4	JS5	JS6	JS7
133MHz	66MHz	2x	1 & 2	1 & 2	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	2 & 3
180MHz	60MHz	3x	1 & 2	1 & 2	2 & 3	1 & 2
200MHz	66MHz	3x	1 & 2	1 & 2	2 & 3	1 & 2
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (CON'T)

CPU speed	Clock speed	Multiplier	JSS1	JSS2	JSS3	JSS4
133MHz	66MHz	2x	2 & 3	2 & 3	2 & 3	2 & 3
150MHz	60MHz	2.5x	1 & 2	1 & 2	1 & 2	1 & 2
166MHz	66MHz	2.5x	2 & 3	2 & 3	2 & 3	2 & 3
180MHz	60MHz	3x	1 & 2	1 & 2	1 & 2	1 & 2
200MHz	66MHz	3x	2 & 3	2 & 3	2 & 3	2 & 3
Note: Pins designated should be in the closed position.						