BLUE CHIP TECHNOLOGY, LTD.

PX1

Device Type	Single Board Computer
Processor	Pentium/Pentium MMX
Processor Speed	75/90/100/120/133/150/166MHz
Chip Set	Intel 430FX
Video Chip Set	S3, INC.
Maximum Onboard Memory	128MB (EDO & FPM DRAM supported)
Maximum Video Memory	2MB (DRAM supported)
Cache	0/256/512KB
BIOS	AMI
Dimensions	338mm x 122mm
I/O Options	Cache slot, Floppy drive interface, IDE interfaces (2), Parallel interface, PC/104 connectors (2), PS/2 keyboard port, PS/2 mouse port, Serial interfaces (2), Serial port, VGA feature connector, VGA port

J1

P1 P2 P3 P4 P5

2

AMP

P6

J2

P7

CPU

P8 P9 P10 P20

J5

BANK0 BANK1

P16

J4 P11

J9

J7

2 4

5

J6

J8

J11 2 3

J10

J12

J13

37109

P17

P19

FRONT

37109

IC4

IC5

Note:Exact location
is unidentified.
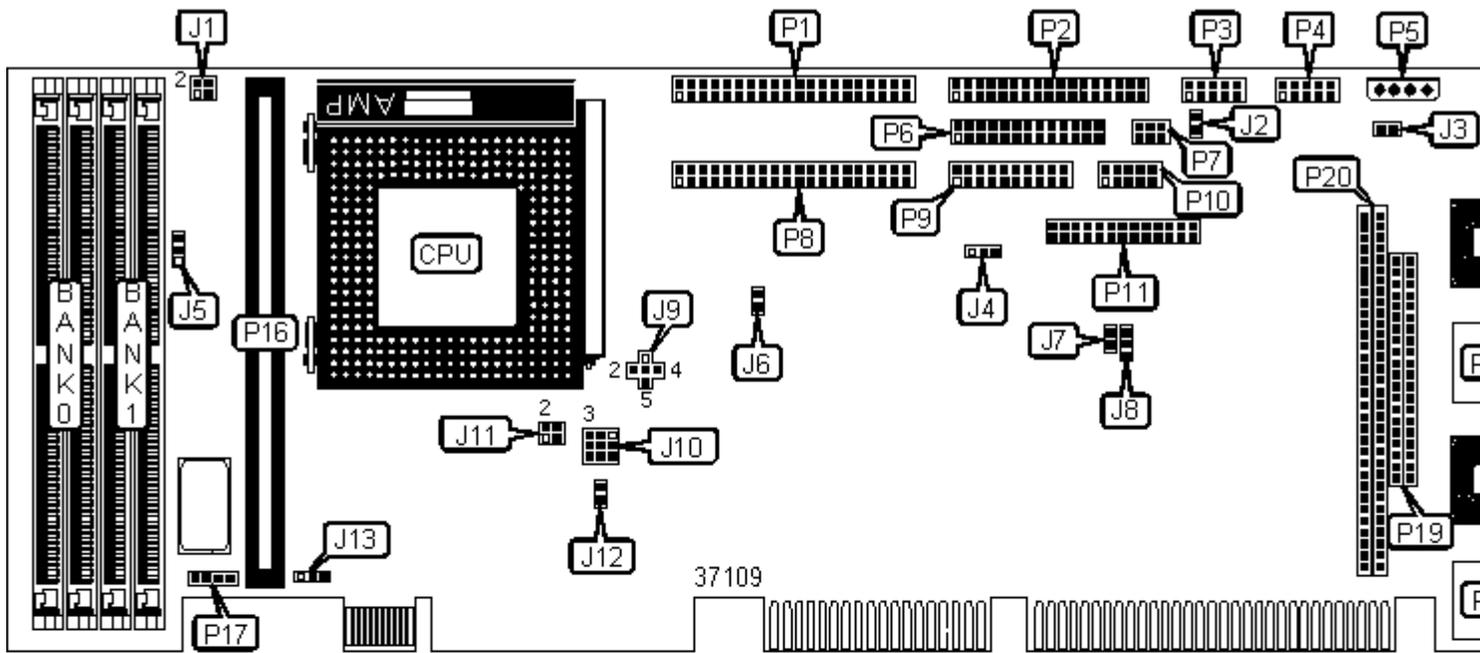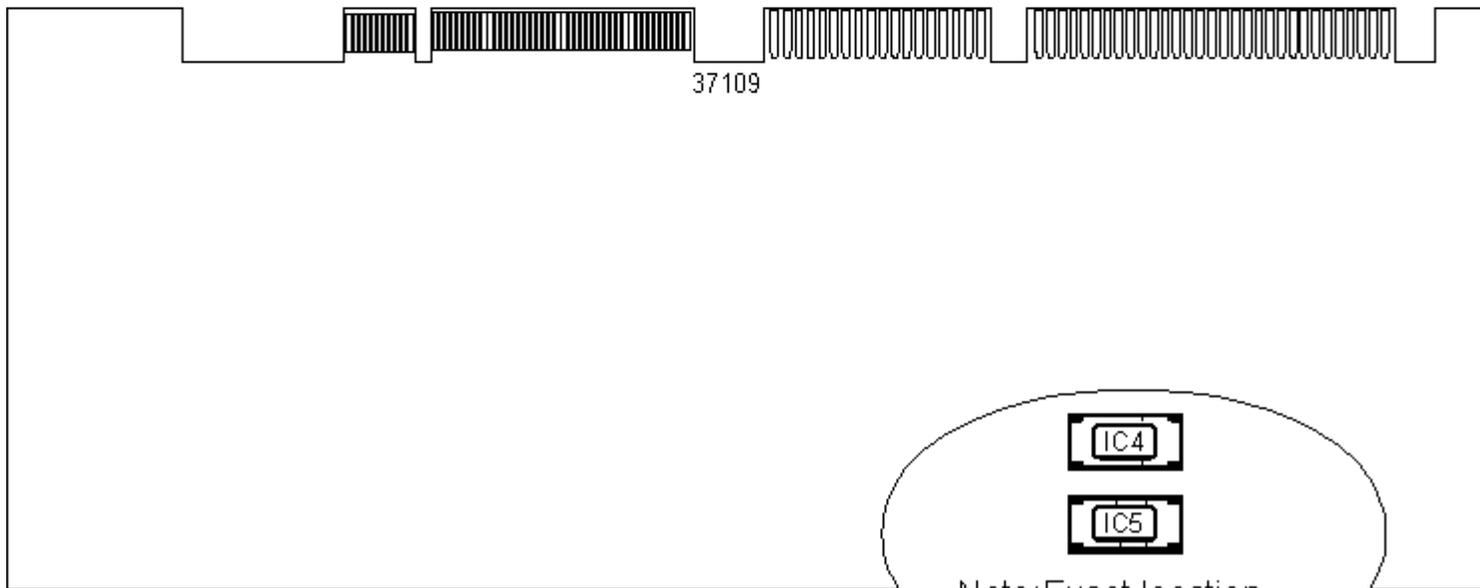
BACK

CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
VGA port	P12	Parallel interface	P6
PS/2 mouse port	P13	EPLD program connector	P7
RS232 serial port	P15	IDE interface 2	P8

PS/2 keyboard port	P18	Utility connector	P9
IDE interface 1	P1	Security/monitor connector	P10
Floppy drive interface	P2	Video feature connector	P11
RS485 serial interface 1	P3	External battery connector	P17
RS232 serial interface 2	P4	16-bit PC/104 connector	P19
5v/12v auxiliary power	P5	8-bit PC/104 connector	P20
Note: EPLD program connector (P7) is for manufacturing use only.			

USER CONFIGURABLE SETTINGS			
Function		**Label**	**Position**
	RS485 serial interface termination disabled	J2	Open
	RS485 serial interface termination enabled	J2	Closed
	Onboard speaker disabled	J3	Open
	Onboard speaker enabled	J3	Closed
	Video memory type select Fast Page	J4	Pins 1 & 2 closed
	Video memory type select EDO	J4	Pins 2 & 3 closed
»	DRAM/cache voltage select 5V	J5	Pins 1 & 2 closed
	DRAM/cache voltage select 3V	J5	Pins 2 & 3 closed
	Onboard video enabled	J6	Open
	Onboard video disabled	J6	Closed
»	BIOS ROM type select EPROM	J7	Open
	BIOS ROM type select Flash PROM	J7	Closed
»	BIOS memory select 5V Flash or EPROM	J8	Open
	BIOS memory select 12V Flash	J8	Pins 1 & 2 closed
	Pentium CPU selected	J10	Pins 1 & 2, 4 & 5, 7 & 8 closed
	Pentium MMX CPU selected	J10	Pins 2 & 3, 5 & 6, 8 & 9 closed
	ISA bus speed / 6 selected	J12	Open
	ISA bus speed / 8 selected	J12	Closed

»	CMOS memory normal operation	J13	Pins 2 & 3 closed
	CMOS memory clear	J13	Pins 1 & 2 closed

Note: ISA bus speed is dependant of bus frequency.

SIMM CONFIGURATION		
Size	Bank 0	Bank 1
8MB	(2) 1M x 32	None
16MB	(2) 2M x 32	None
16MB	(2) 1M x 32	(2) 1M x 32
24MB	(2) 2M x 32	(2) 1M x 32
32MB	(2) 4M x 32	None
32MB	(2) 2M x 32	(2) 2M x 32
40MB	(2) 4M x 32	(2) 1M x 32
48MB	(2) 4M x 32	(2) 2M x 32
64MB	(2) 8M x 32	None
64MB	(2) 4M x 32	(2) 4M x 32
72MB	(2) 8M x 32	(2) 1M x 32
80MB	(2) 8M x 32	(2) 2M x 32
96MB	(2) 8M x 32	(2) 4M x 32
128MB	(2) 8M x 32	(2) 8M x 32

Note: Board accepts EDO & Fast Page memory.

CACHE CONFIGURATION	
Size	P16
0	No modules installed
256KB	256KB module installed
512KB	512KB module installed

Note: 256KB module may be asynchronous or synchronous cache. 512KB module must be synchronous cache only.

VIDEO MEMORY CONFIGURATION		
Size	**IC4**	**IC5**
1MB	No chips installed	No chips installed
2MB	256K x 16	256K x 16
Note: Chips must be installed in pairs.		

CPU SPEED SELECTION						
CPU Speed	**Bus Speed**	**Multiplier**	**J1/Pins 1 & 2**	**J1/Pins 3 & 4**	**J11/Pins 1 & 2**	**J11/Pins 3 & 4**
75MHz	50MHz	1.5x	Open	Open	Closed	Closed
90MHz	60MHz	1.5x	Open	Open	Closed	Open
100MHz	66MHz	1.5x	Open	Open	Open	Closed
120MHz	60MHz	2.0x	Open	Closed	Closed	Open
133MHz	66MHz	2.0x	Open	Closed	Open	Closed
150MHz	60MHz	2.5x	Closed	Closed	Closed	Open
166MHz	66MHz	2.5x	Closed	Closed	Open	Closed

CPU VOLTAGE SELECTION	
Setting	**J9**
2.9V	Pins 1 & 3 closed
3.3V	Pins 3 & 4 closed
3.45V	Pins 3 & 5 closed
3.6V	Pins 2 & 3 closed

DIAGNOSTIC LED(S)			
LED	**Color**	**Status**	**Condition**
D1	Yellow	On	Watchdog timeout has occurred
D1	Yellow	Off	Watchdog timeout has not occurred
D2	Yellow	On	Monitor microcontroller error has occurred
D2	Yellow	Off	Monitor microcontroller error has not occurred

D3	Red	On	Reset in process
D3	Red	Off	Reset not in process
D4	Yellow	On	IDE activity detected
D4	Yellow	Off	IDE activity not detected
D5	Green	On	- 5V power supply detected
D5	Green	Off	- 5V power supply not detected
D6	Green	On	- 12V power supply detected
D6	Green	Off	- 12V power supply not detected
D7	Green	On	+ 12V power supply detected
D7	Green	Off	+ 12V power supply not detected
D8	Green	On	+ 5V power supply detected
D8	Green	Off	+ 5V power supply not detected
D9	Green	On	3.3V host CPU I/O and chipset supply detected
D9	Green	Off	3.3V host CPU I/O and chipset supply not detected
D10	Red	On	MSB POST data bit is 1
D10	Red	Off	MSB POST data bit is not 1
D11	Red	On	Unidentified POST data bit is 1
D11	Red	Off	Unidentified POST data bit is not 1
D12	Red	On	Unidentified POST data bit is 1
D12	Red	Off	Unidentified POST data bit is not 1
D13	Red	On	Unidentified POST data bit is 1
D13	Red	Off	Unidentified POST data bit is not 1
D14	Red	On	Unidentified POST data bit is 1
D14	Red	Off	Unidentified POST data bit is not 1
D15	Red	On	Unidentified POST data bit is 1
D15	Red	Off	Unidentified POST data bit is not 1
D16	Red	On	Unidentified POST data bit is 1
D16	Red	Off	Unidentified POST data bit is not 1
D17	Red	On	LSB POST data bit is 1

D17	Red	Off	LSB POST data bit is not 1

Note: Diagram of LEDs not available.

MISCELLANEOUS TECHNICAL NOTES

Board contains Solid State Disk Flash and SRAM sockets. Diagram and configuration not available.
Board will support up to 14 ISA slots and 3 PCI slots (1 shared). 3 PC/104 devices can attach on board without occupying a backplane bus slot.