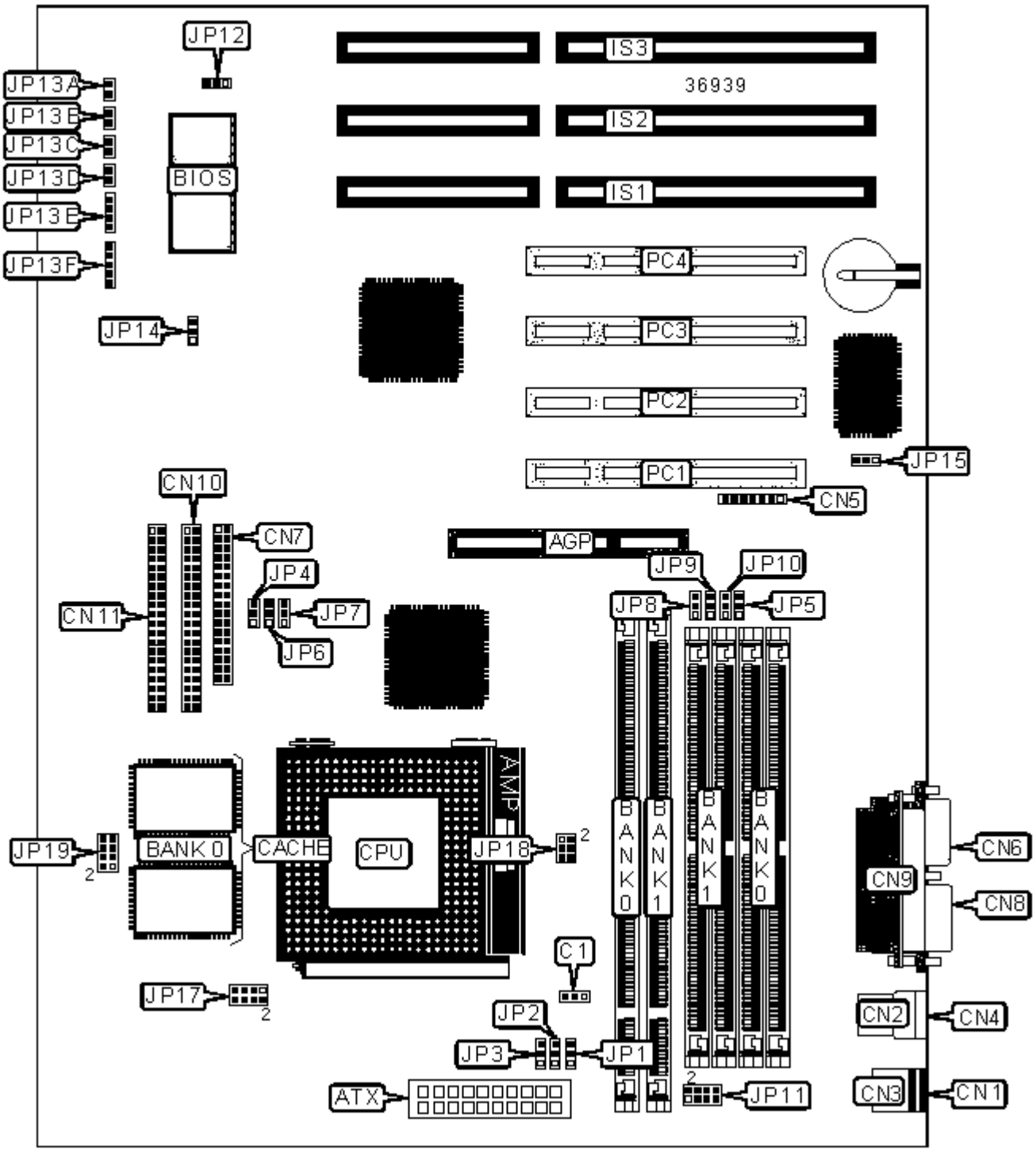
BOARDRUNNER

5AMVP3 (VER. 1.2)

Device Type	Mainboard
Processor	CX 6X86/CX 6X86L/CX 6X86MX/CX M II/AM K5/AM K6/ AM K6-2/Pentium/Pentium MMX
Processor Speed	90/100/120/133/150/166/180/200/233/250/266/300MHz
Chip Set	VIA
Maximum Onboard Memory	384MB (EDO & SDRAM supported)
Cache	512/1024KB
BIOS	Award
Dimensions	305mm x 210mm
I/O Options	16-bit ISA slots (3), 32-bit PCI slots (4), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, PS/2 keyboard port, serial ports (2), IR connector, USB ports (2), ATX power connector, AGP slot, Wake-on-LAN connector



CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
AGP slot	AGP	IDE interface 1	CN10
ATX power connector	ATX	IDE interface 2	CN11
CPU fan power	C1	16-bit ISA slots	IS1-IS3
PS/2 keyboard port	CN1	IDE interface LED	JP13A
USB port 1	CN2	Green PC connector	JP13B

PS/2 mouse port	CN3	Turbo LED	JP13C
USB port 2	CN4	Reset switch	JP13D
IR connector	CN5	Speaker	JP13E
Serial port 2	CN6	Power LED & keylock	JP13F
Floppy drive interface	CN7	Wake-on-LAN connector	JP15
Serial port 1	CN8	32-bit PCI slots	PC1 – PC4
Parallel port	CN9		

USER CONFIGURABLE SETTINGS			
Function		**Label**	**Position**
	Flash BIOS voltage select 5v	JP12	Pins 1 & 2 closed
	Flash BIOS voltage select 12v	JP12	Pins 2 & 3 closed
»	CMOS memory normal operation	JP14	Pins 1 & 2 closed
	CMOS memory clear	JP14	Pins 2 & 3 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
36MB	(2) 8M x 36	None
36MB	(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
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
Note: Board accepts EDO memory. Note: DIMM Bank 0 and SIMM Bank 1 cannot be used simultaneously.		

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
Note: Board supports EDO & SDRAM memory. Note: DIMM Bank 0 and SIMM Bank 1 cannot be used simultaneously.		

DIMM FREQUENCY CONFIGURATION		
Frequency	**JP4**	**JP5**
Same as CPU clock	Pins 2 & 3 closed	Pins 1 & 2 closed
66MHz	Pins 1 & 2 closed	Pins 2 & 3 closed

DIMM VOLTAGE CONFIGURATION	
Voltage	**JP11**
3.3v	Pins 1 & 2, 3 & 4 closed
5v	Pins 5 & 6, 7 & 8 closed

CACHE CONFIGURATION	
Size	**Bank 0**
512KB	(2) 36K x 32
1MB	(2) 128 x 32

CPU SPEED SELECTION (CX 6X86)							
CPU speed	**Clock speed**	**Multiplier**	**JP1**	**JP2**	**JP3**	**JP6**	**JP7**
150MHz	60MHz	2x	2 & 3	1 & 2	1 & 2	2 & 3	2 & 3
166MHz	66MHz	2x	2 & 3	1 & 2	1 & 2	2 & 3	2 & 3
Note: Pins designated should be in the closed position.							

CPU SPEED SELECTION (CX 6X86, CON'T)						
CPU speed	**Clock speed**	**Multiplier**	**JP8**	**JP9**	**JP10**	**JP18**
150MHz	60MHz	2x	2 & 3	1 & 2	1 & 2	Open
166MHz	66MHz	2x	1 & 2	1 & 2	1 & 2	Open
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (CX 6X86L)							
CPU speed	**Clock speed**	**Multiplier**	**JP1**	**JP2**	**JP3**	**JP6**	**JP7**
150MHz	60MHz	2x	2 & 3	1 & 2	1 & 2	2 & 3	2 & 3
166MHz	66MHz	2x	2 & 3	1 & 2	1 & 2	2 & 3	2 & 3
200MHz	75MHz	2x	2 & 3	1 & 2	1 & 2	2 & 3	2 & 3
Note: Pins designated should be in the closed position.							

CPU SPEED SELECTION (CX 6X86L, CON'T)						
CPU speed	**Clock speed**	**Multiplier**	**JP8**	**JP9**	**JP10**	**JP18**
150MHz	60MHz	2x	2 & 3	1 & 2	1 & 2	1 & 2, 3 & 4, 5 & 6
166MHz	66MHz	2x	1 & 2	1 & 2	1 & 2	1 & 2, 3 & 4, 5 & 6
200MHz	75MHz	2x	1 & 2	2 & 3	1 & 2	1 & 2, 3 & 4, 5 & 6
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (CX 6X86MX)							
CPU speed	**Clock speed**	**Multiplier**	**JP1**	**JP2**	**JP3**	**JP6**	**JP7**
166MHz	66MHz	2x	2 & 3	1 & 2	1 & 2	2 & 3	2 & 3
166MHz	60MHz	2.5x	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3
200MHz	75MHz	2x	2 & 3	1 & 2	1 & 2	2 & 3	2 & 3
233MHz	75MHz	2.5x	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3
266MHz	83MHz	2.5x	2 & 3	2 & 3	1 & 2	1 & 2	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX 6X86MX, CON'T)						
CPU speed	**Clock speed**	**Multiplier**	**JP8**	**JP9**	**JP10**	**JP18**
166MHz	66MHz	2x	1 & 2	1 & 2	1 & 2	1 & 2, 3 & 4, 5 & 6
166MHz	60MHz	2.5x	2 & 3	1 & 2	1 & 2	1 & 2, 3 & 4, 5 & 6
200MHz	75MHz	2x	1 & 2	2 & 3	1 & 2	1 & 2, 3 & 4, 5 & 6
233MHz	75MHz	2.5x	1 & 2	2 & 3	1 & 2	1 & 2, 3 & 4, 5 & 6
266MHz	83MHz	2.5x	2 & 3	2 & 3	1 & 2	1 & 2, 3 & 4, 5 & 6
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (CX MII)							
CPU speed	**Clock speed**	**Multiplier**	**JP1**	**JP2**	**JP3**	**JP6**	**JP7**
300MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3
Note: Pins designated should be in the closed position.							

CPU SPEED SELECTION (CX MII, CON'T)						
CPU speed	**Clock speed**	**Multiplier**	**JP8**	**JP9**	**JP10**	**JP18**
300MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	1 & 2, 3 & 4, 5 & 6
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (AM K5)							
CPU speed	**Clock speed**	**Multiplier**	**JP1**	**JP2**	**JP3**	**JP6**	**JP7**
90MHz	60MHz	1.5x	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3
100MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3
120MHz	60MHz	1.5x	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3
133MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3

166MHz	66MHz	2.5x	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3
Note: Pins designated should be in the closed position.							

CPU SPEED SELECTION (AM K5, CON'T)						
CPU speed	**Clock speed**	**Multiplier**	**JP8**	**JP9**	**JP10**	**JP18**
90MHz	60MHz	1.5x	2 & 3	1 & 2	1 & 2	Open
100MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2	Open
120MHz	60MHz	1.5x	2 & 3	1 & 2	1 & 2	Open
133MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2	Open
166MHz	66MHz	2.5x	1 & 2	1 & 2	1 & 2	Open
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (AM K6)							
CPU speed	**Clock speed**	**Multiplier**	**JP1**	**JP2**	**JP3**	**JP6**	**JP7**
166MHz	66MHz	2.5x	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3
200MHz	66MHz	3x	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3
233MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3
266MHz	66MHz	4x	2 & 3	1 & 2	2 & 3	2 & 3	2 & 3
300MHz	66MHz	4.5x	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3
Note: Pins designated should be in the closed position.							

CPU SPEED SELECTION (AM K6, CON'T)						
CPU speed	**Clock speed**	**Multiplier**	**JP8**	**JP9**	**JP10**	**JP18**
166MHz	66MHz	2.5x	1 & 2	1 & 2	1 & 2	1 & 2, 3 & 4, 5 & 6
200MHz	66MHz	3x	1 & 2	1 & 2	1 & 2	1 & 2, 3 & 4, 5 & 6
233MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	1 & 2, 3 & 4, 5 & 6
266MHz	66MHz	4x	1 & 2	1 & 2	1 & 2	1 & 2, 3 & 4, 5 & 6

300MHz	66MHz	4.5x	1 & 2	1 & 2	1 & 2	1 & 2, 3 & 4, 5 & 6
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (AM K6-2)							
CPU speed	**Clock speed**	**Multiplier**	**JP1**	**JP2**	**JP3**	**JP6**	**JP7**
250MHz	100MHz	2.5x	2 & 3	2 & 3	1 & 2	1 & 2	2 & 3
300MHz	100MHz	3x	1 & 2	2 & 3	1 & 2	1 & 2	2 & 3
Note: Pins designated should be in the closed position.							

CPU SPEED SELECTION (AM K6-2, CON'T)						
CPU speed	**Clock speed**	**Multiplier**	**JP8**	**JP9**	**JP10**	**JP18**
250MHz	100MHz	2.5x	1 & 2	1 & 2	2 & 3	1 & 2, 3 & 4, 5 & 6
300MHz	100MHz	3x	1 & 2	1 & 2	2 & 3	1 & 2, 3 & 4, 5 & 6
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (PENTIUM)							
CPU speed	**Clock speed**	**Multiplier**	**JP1**	**JP2**	**JP3**	**JP6**	**JP7**
90MHz	60MHz	1.5x	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3
100MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3
120MHz	60MHz	2x	2 & 3	1 & 2	1 & 2	2 & 3	2 & 3
133MHz	66MHz	2x	2 & 3	1 & 2	1 & 2	2 & 3	2 & 3
150MHz	60MHz	2.5x	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3
166MHz	66MHz	2.5x	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3
180MHz	60MHz	3x	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3
200MHz	66MHz	3x	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3
Note: Pins designated should be in the closed position.							

CPU SPEED SELECTION (PENTIUM, CON'T)

CPU speed	Clock speed	Multiplier	JP8	JP9	JP10	JP18
90MHz	60MHz	1.5x	2 & 3	1 & 2	1 & 2	Open
100MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2	Open
120MHz	60MHz	2x	2 & 3	1 & 2	1 & 2	Open
133MHz	66MHz	2x	1 & 2	1 & 2	1 & 2	Open
150MHz	60MHz	2.5x	2 & 3	1 & 2	1 & 2	Open
166MHz	66MHz	2.5x	1 & 2	1 & 2	1 & 2	Open
180MHz	60MHz	3x	2 & 3	1 & 2	1 & 2	Open
200MHz	66MHz	3x	1 & 2	1 & 2	1 & 2	Open
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (PENTIUM MMX)							
CPU speed	Clock speed	Multiplier	JP1	JP2	JP3	JP6	JP7
166MHz	66MHz	2.5x	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3
200MHz	66MHz	3x	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3
233MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3
Note: Pins designated should be in the closed position.							

CPU SPEED SELECTION (INTEL MMX, CON'T)						
CPU speed	Clock speed	Multiplier	JP8	JP9	JP10	JP18
166MHz	66MHz	2.5x	1 & 2	1 & 2	1 & 2	1 & 2, 3 & 4, 5 & 6
200MHz	66MHz	3x	1 & 2	1 & 2	1 & 2	1 & 2, 3 & 4, 5 & 6
233MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	1 & 2, 3 & 4, 5 & 6
Note: Pins designated should be in the closed position.						

VIO VOLTAGE SELECTION				
Voltage	JP19/Pins 1 & 2	JP19/Pins 3 & 4	JP19/Pins 5 & 6	JP19/Pins 7& 8

3.3v	Closed	Open	Closed	Closed
3.45v	Closed	Closed	Closed	Closed

CPU VOLTAGE SELECTION (SINGLE)				
Voltage	**JP17/Pins 1 & 2**	**JP17/Pins 3 & 4**	**JP17/Pins 5 & 6**	**JP17/Pins 7& 8**
3.3v	Closed	Open	Closed	Closed
3.5v	Closed	Closed	Closed	Closed

CPU VOLTAGE SELECTION (DUAL)				
V core	**JP17/Pins 1 & 2**	**JP17/Pins 3 & 4**	**JP17/Pins 5 & 6**	**JP17/Pins 7& 8**
2.1v	Closed	Open	Open	Open
2.2v	Open	Closed	Open	Open
2.7v	Closed	Closed	Closed	Open
2.8v	Open	Open	Open	Closed
2.9v	Closed	Open	Open	Closed
3.2v	Open	Open	Closed	Closed