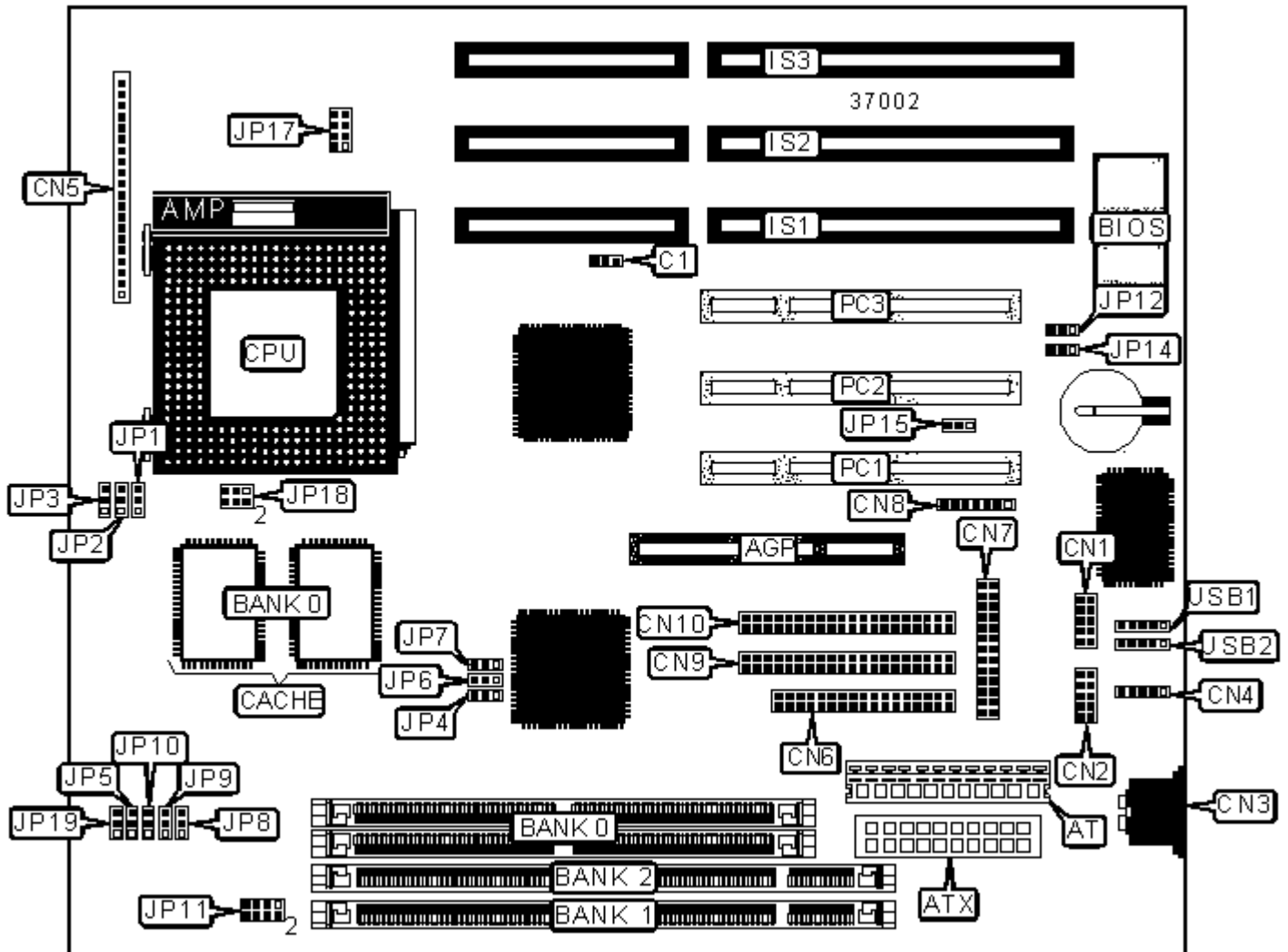


BOARDRUNNER

5MVP3 (VER. 1.4)

Device Type	Mainboard
Processor	CX 6X86/CX 6X86L/CX 686MX/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	256MB (EDO & SDRAM supported)
Cache	512/1024KB
BIOS	Award
Dimensions	240mm x 220mm
I/O Options	16-bit ISA slots (3), 32-bit PCI slots (3), floppy drive interface, green PC connector, IDE interfaces (2), parallel interface, PS/2 mouse interface, AT keyboard port, serial interfaces (2), IR connector, USB interfaces (2), ATX power connector, AT power connector, AGP slot, Wake-on-LAN connector



CONNECTIONS

Purpose	Location	Purpose	Location
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AGP slot	AGP	Green PC connector	CN5/pins 18 & 19
AT power connector	AT	IDE interface LED	CN5/pins 21 & 22
ATX power connector	ATX	Floppy drive interface	CN6
CPU fan power	C1	Parallel interface	CN7
Serial interface 2	CN1	IR connector	CN8
Serial interface 1	CN2	IDE interface 2	CN9
AT keyboard port	CN3	IDE interface 1	CN10
PS/2 mouse interface	CN4	16-bit ISA slots	IS1-IS3
Power LED & keylock	CN5/pins 1 – 5	Wake-on-LAN connector	JP15
Speaker	CN5/pins 7 – 10	32-bit PCI slots	PC1 – PC3
Reset switch	CN5/pins 12 & 13	USB interface 1	USB1
Turbo LED	CN5/pins 15 & 16	USB interface 2	USB2

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
8MB	(2) 1M x 36
16MB	(2) 2M x 36
32MB	(2) 4M x 36
64MB	(2) 8M x 36
128MB	(2) 16M x 36
256MB	(2) 32M x 36

Note: Board accepts EDO memory.

Note: Do not mix SIMM and DIMM memory.

DIMM CONFIGURATION

Size	Bank 1	Bank 2
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: Do not mix SIMM and DIMM memory.

DIMM FREQUENCY CONFIGURATION

Frequency	JP4	JP5
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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 5 & 6, 7 & 8 closed
5v	Pins 1 & 2, 3 & 4 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
150MHz	60MHz	2x	2 & 3	1 & 2	1 & 2	2 & 3
166MHz	66MHz	2x	2 & 3	1 & 2	1 & 2	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX 6X86, CON'T)						
CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	JP10
150MHz	60MHz	2x	2 & 3	2 & 3	1 & 2	1 & 2
166MHz	66MHz	2x	2 & 3	1 & 2	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX 6X86L)						
CPU speed	Clock speed	Multiplier	JP1	JP2	JP3	JP6
150MHz	60MHz	2x	2 & 3	1 & 2	1 & 2	2 & 3
166MHz	66MHz	2x	2 & 3	1 & 2	1 & 2	2 & 3

200MHz	75MHz	2x	2 & 3	1 & 2	1 & 2	2 & 3
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Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX 6X86L, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	JP10
150MHz	60MHz	2x	2 & 3	2 & 3	1 & 2	1 & 2
166MHz	66MHz	2x	2 & 3	1 & 2	1 & 2	1 & 2
200MHz	75MHz	2x	2 & 3	1 & 2	2 & 3	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX 6X86MX)

CPU speed	Clock speed	Multiplier	JP1	JP2	JP3	JP6
166MHz	66MHz	2x	2 & 3	1 & 2	1 & 2	2 & 3
166MHz	60MHz	2.5x	2 & 3	2 & 3	1 & 2	2 & 3
200MHz	75MHz	2x	2 & 3	1 & 2	1 & 2	2 & 3
233MHz	75MHz	2.5x	2 & 3	2 & 3	1 & 2	2 & 3
266MHz	83MHz	2.5x	2 & 3	2 & 3	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX 6X86MX, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	JP10
166MHz	66MHz	2x	2 & 3	1 & 2	1 & 2	1 & 2
166MHz	60MHz	2.5x	2 & 3	2 & 3	1 & 2	1 & 2
200MHz	75MHz	2x	2 & 3	1 & 2	2 & 3	1 & 2
233MHz	75MHz	2.5x	2 & 3	1 & 2	2 & 3	1 & 2
266MHz	83MHz	2.5x	2 & 3	2 & 3	2 & 3	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX M II)

CPU speed	Clock speed	Multiplier	JP1	JP2	JP3	JP6
300MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX M II, CON'T)						
CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	JP10
300MHz	66MHz	3.5x	2 & 3	1 & 2	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K5)						
CPU speed	Clock speed	Multiplier	JP1	JP2	JP3	JP6
90MHz	60MHz	1.5x	1 & 2	1 & 2	1 & 2	2 & 3
100MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2	2 & 3
120MHz	60MHz	1.5x	1 & 2	1 & 2	1 & 2	2 & 3
133MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2	2 & 3
166MHz	66MHz	2.5x	2 & 3	2 & 3	1 & 2	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K5, CON'T)						
CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	JP10
90MHz	60MHz	1.5x	2 & 3	2 & 3	1 & 2	1 & 2
100MHz	66MHz	1.5x	2 & 3	1 & 2	1 & 2	1 & 2
120MHz	60MHz	1.5x	2 & 3	2 & 3	1 & 2	1 & 2
133MHz	66MHz	1.5x	2 & 3	1 & 2	1 & 2	1 & 2
166MHz	66MHz	2.5x	2 & 3	1 & 2	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K6)						
CPU speed	Clock speed	Multiplier	JP1	JP2	JP3	JP6

166MHz	66MHz	2.5x	2 & 3	2 & 3	1 & 2	2 & 3
200MHz	66MHz	3x	1 & 2	2 & 3	1 & 2	2 & 3
233MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	2 & 3
266MHz	66MHz	4x	2 & 3	1 & 2	2 & 3	2 & 3
300MHz	66MHz	4.5x	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	JP7	JP8	JP9	JP10
166MHz	66MHz	2.5x	2 & 3	1 & 2	1 & 2	1 & 2
200MHz	66MHz	3x	2 & 3	1 & 2	1 & 2	1 & 2
233MHz	66MHz	3.5x	2 & 3	1 & 2	1 & 2	1 & 2
266MHz	66MHz	4x	2 & 3	1 & 2	1 & 2	1 & 2
300MHz	66MHz	4.5x	2 & 3	1 & 2	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K6-2)

CPU speed	Clock speed	Multiplier	JP1	JP2	JP3	JP6
250MHz	100MHz	2.5x	2 & 3	2 & 3	1 & 2	1 & 2
266MHz	66MHz	4x	2 & 3	1 & 2	2 & 3	2 & 3
300MHz	100MHz	3x	1 & 2	2 & 3	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K6-2, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	JP10
250MHz	100MHz	2.5x	2 & 3	2 & 3	1 & 2	2 & 3
266MHz	66MHz	4x	2 & 3	1 & 2	1 & 2	1 & 2
300MHz	100MHz	3x	2 & 3	2 & 3	1 & 2	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (PENTIUM)

CPU speed	Clock speed	Multiplier	JP1	JP2	JP3	JP6
90MHz	60MHz	1.5x	1 & 2	1 & 2	1 & 2	2 & 3
100MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2	2 & 3
120MHz	60MHz	2x	2 & 3	1 & 2	1 & 2	2 & 3
133MHz	66MHz	2x	2 & 3	1 & 2	1 & 2	2 & 3
150MHz	60MHz	2.5x	2 & 3	2 & 3	1 & 2	2 & 3
166MHz	66MHz	2.5x	2 & 3	2 & 3	1 & 2	2 & 3
180MHz	60MHz	3x	1 & 2	2 & 3	1 & 2	2 & 3
200MHz	66MHz	3x	1 & 2	2 & 3	1 & 2	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (PENTIUM, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	JP10
90MHz	60MHz	1.5x	2 & 3	2 & 3	1 & 2	1 & 2
100MHz	66MHz	1.5x	2 & 3	1 & 2	1 & 2	1 & 2
120MHz	60MHz	2x	2 & 3	2 & 3	1 & 2	1 & 2
133MHz	66MHz	2x	2 & 3	1 & 2	1 & 2	1 & 2
150MHz	60MHz	2.5x	2 & 3	2 & 3	1 & 2	1 & 2
166MHz	66MHz	2.5x	2 & 3	1 & 2	1 & 2	1 & 2
180MHz	60MHz	3x	2 & 3	2 & 3	1 & 2	1 & 2
200MHz	66MHz	3x	2 & 3	1 & 2	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (PENTIUM MMX)

CPU speed	Clock speed	Multiplier	JP1	JP2	JP3	JP6
166MHz	66MHz	2.5x	2 & 3	2 & 3	1 & 2	2 & 3
200MHz	66MHz	3x	1 & 2	2 & 3	1 & 2	2 & 3

233MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	2 & 3
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Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (PENTIUM MMX, CON'T)

CPU speed	Clock speed	Multiplier	JP7	JP8	JP9	JP10
166MHz	66MHz	2.5x	2 & 3	1 & 2	1 & 2	1 & 2
200MHz	66MHz	3x	2 & 3	1 & 2	1 & 2	1 & 2
233MHz	66MHz	3.5x	2 & 3	1 & 2	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU TYPE SELECTION

Type	JP19
AM K6-300MHz	Pins 2 & 3 closed
All other CPU types	Pins 1 & 2 closed

CPU VOLTAGE CONNECTOR SELECTION

Voltage	JP18
Single	Open
Dual	Pins 1 & 2, 3 & 4, 5 & 6 closed

CPU VOLTAGE SELECTION (DUAL)

V core	JP17
2.1v	Pins 1 & 2 closed
2.2v	Pins 3 & 4 closed
2.7v	Pins 1 & 2, 3 & 4, 5 & 6 closed
2.8v	Pins 7 & 8 closed
2.9v	Pins 1 & 2, 7 & 8 closed
3.2v	Pins 5 & 6, 7 & 8 closed

CPU VOLTAGE SELECTION (SINGLE)

V core	JP17
3.3v	Pins 1 & 2, 5 & 6, 7 & 8 closed
3.5v	Pins 1 & 2, 3 & 4, 5 & 6, 7 & 8 closed