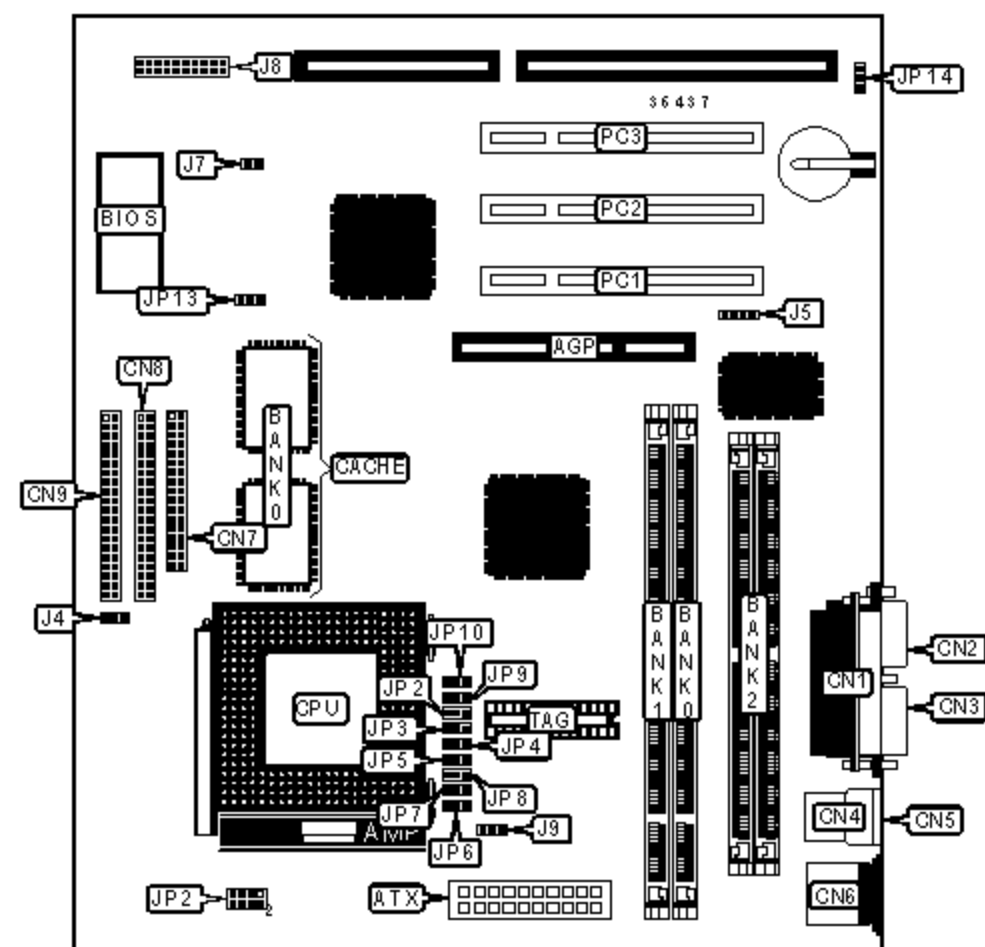


EFA CORPORATION

P5MVP3-MATX

Device Type	Mainboard
Processor	CX 6X86/CX 6X86L/CX 6X86MX/CX MII/AM K5/AM K6/ AM K6-2/Pentium/Pentium MMX
Processor Speed	90/100/120/133/150/166/200/233/250/266/300/333MHz
Chip Set	VIA MVP3
Maximum Onboard Memory	512MB (EDO & SDRAM supported)
Cache	512/1024KB
BIOS	Award
Dimensions	244mm x 210mm
I/O Options	32-bit PCI slots (3), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), IR connector, USB connectors (2), ATX power connector, AGP slot



CONNECTIONS

Purpose	Location	Purpose	Location
AGP slot	AGP	Chassis fan power	J4
ATX power connector	ATX	IR connector	J5
Parallel port	CN1	Soft off power supply	J7
Serial port 2	CN2	Speaker	J8/pins 1/3/5/7

Serial port 1	CN3	Power LED & keylock	J8/pins 2/4/6/8/10
USB connector 1	CN4	Turbo LED	J8/pins 11 & 12
USB connector 2	CN5	IDE interface LED	J8/pins 15 & 16
PS/2 mouse port	CN6	Reset switch	J8/pins 17 & 18
Floppy drive interface	CN7	Green PC LED	J8/pins 19 & 20
IDE interface 2	CN8	CPU fan power	J9
IDE interface 1	CN9	32-bit PCI slots	PC1 - PC3

USER CONFIGURABLE SETTINGS

Function		Label	Position
»	Factory configured - do not alter	JP13	Pins 1 & 2 closed
»	CMOS memory normal operation	JP14	Pins 1 & 2 closed
	CMOS memory clear	JP14	Pins 2 & 3 closed

SIMM CONFIGURATION

Size	Bank 2
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
512MB	(2) 64M x 36

Note: Board accepts EDO memory.

DIMM CONFIGURATION

Size	Bank 0	Bank 1

8MB	(1) 1M x 64	None
16MB	(1) 2M x 64	None
16MB	(1) 1M x 64	(1) 1M x 64
24MB	(1) 2M x 64	(1) 1M x 64
32MB	(1) 4M x 64	None
32MB	(1) 2M x 64	(1) 2M x 64
40MB	(1) 4M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 2M x 64
64MB	(1) 8M x 64	None
64MB	(1) 4M x 64	(1) 4M x 64
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

DIMM CONFIGURATION (CON'T)		
Size	Bank 0	Bank 1
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
256MB	(1) 32M x 64	None
264MB	(1) 32M x 64	(1) 1M x 64
272MB	(1) 32M x 64	(1) 2M x 64
288MB	(1) 32M x 64	(1) 4M x 64
320MB	(1) 32M x 64	(1) 8M x 64

384MB	(1) 32M x 64	(1) 16M x 64
512MB	(1) 32M x 64	(1) 32M x 64
Note: Board accepts EDO memory.		

SDRAM CLOCK CONFIGURATION		
Setting	JP9	JP10
SDRAM clock = CPU clock	Pins 2 & 3 closed	Pins 2 & 3 closed
SDRAM clock = AGP clock	Pins 1 & 2 closed	Pins 1 & 2 closed

CACHE CONFIGURATION		
Size	Bank 0	TAG
512KB	(2) 64K x 32	Unidentified
1MB	(2) 128K x 32	Unidentified

CPU SPEED SELECTION (CX 6X86)					
CPU speed	Clock speed	Multiplier	JP6	JP7	JP8
150MHz	60MHz	2x	1 & 2	2 & 3	1 & 2
166MHz	66MHz	2x	1 & 2	2 & 3	1 & 2
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (CX 6X86, CON'T)						
CPU speed	Clock speed	Multiplier	JP2	JP3	JP4	JP5
150MHz	60MHz	2x	2 & 3	1 & 2	1 & 2	2 & 3
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	JP6	JP7	JP8
166MHz	66MHz	2x	1 & 2	2 & 3	1 & 2

Note: Pins designated should be in the closed position.

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

CPU speed	Clock speed	Multiplier	JP2	JP3	JP4	JP5
166MHz	66MHz	2x	2 & 3	1 & 2	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX 6X86MX)

CPU speed	Clock speed	Multiplier	JP6	JP7	JP8
166MHz	60MHz	2.5x	1 & 2	2 & 3	2 & 3
166MHz	66MHz	2x	1 & 2	2 & 3	1 & 2
200MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3
233MHz	75MHz	2.5x	1 & 2	2 & 3	2 & 3
266MHz	83MHz	2.5x	1 & 2	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

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

CPU speed	Clock speed	Multiplier	JP2	JP3	JP4	JP5
166MHz	60MHz	2.5x	2 & 3	1 & 2	1 & 2	2 & 3
166MHz	66MHz	2x	2 & 3	1 & 2	1 & 2	1 & 2
200MHz	66MHz	2.5x	2 & 3	1 & 2	1 & 2	1 & 2
233MHz	75MHz	2.5x	2 & 3	1 & 2	2 & 3	1 & 2
266MHz	83MHz	2.5x	1 & 2	1 & 2	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX MII)

CPU speed	Clock speed	Multiplier	JP6	JP7	JP8
300MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2
300MHz	75MHz	3x	1 & 2	1 & 2	2 & 3
333MHz	83MHz	3x	1 & 2	1 & 2	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX MII, CON'T)

CPU speed	Clock speed	Multiplier	JP2	JP3	JP4	JP5
300MHz	66MHz	3.5x	2 & 3	1 & 2	1 & 2	1 & 2
300MHz	75MHz	3x	2 & 3	1 & 2	2 & 3	1 & 2
333MHz	83MHz	3x	1 & 2	1 & 2	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K5)

CPU speed	Clock speed	Multiplier	JP6	JP7	JP8
120MHz	60MHz	2x	1 & 2	2 & 3	1 & 2
133MHz	66MHz	2x	1 & 2	2 & 3	1 & 2
150MHz	60MHz	2.5x	1 & 2	2 & 3	2 & 3
166MHz	66MHz	2.5x	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	JP2	JP3	JP4	JP5
120MHz	60MHz	2x	2 & 3	1 & 2	1 & 2	2 & 3
133MHz	66MHz	2x	2 & 3	1 & 2	1 & 2	1 & 2

150MHz	60MHz	2.5x	2 & 3	1 & 2	1 & 2	2 & 3
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	JP6	JP7	JP8
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3
200MHz	66MHz	3x	1 & 2	1 & 2	2 & 3
233MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2
266MHz	66MHz	4x	2 & 3	2 & 3	1 & 2
300MHz	66MHz	4.5x	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	JP2	JP3	JP4	JP5
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	JP6	JP7	JP8
250MHz	100MHz	2.5x	1 & 2	2 & 3	2 & 3
266MHz	66MHz	4x	2 & 3	2 & 3	1 & 2
300MHz	100MHz	3x	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	JP2	JP3	JP4	JP5
250MHz	100MHz	2.5x	1 & 2	2 & 3	1 & 2	1 & 2
266MHz	66MHz	4x	2 & 3	1 & 2	1 & 2	1 & 2
300MHz	100MHz	3x	1 & 2	2 & 3	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (INTEL)

CPU speed	Clock speed	Multiplier	JP6	JP7	JP8
90MHz	60MHz	1.5x	1 & 2	1 & 2	1 & 2
100MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2
120MHz	60MHz	2x	1 & 2	2 & 3	1 & 2
133MHz	66MHz	2x	1 & 2	2 & 3	1 & 2
150MHz	60MHz	2.5x	1 & 2	2 & 3	2 & 3
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3
200MHz	66MHz	3x	1 & 2	1 & 2	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (INTEL, CON'T)

CPU speed	Clock speed	Multiplier	JP2	JP3	JP4	JP5
90MHz	60MHz	1.5x	2 & 3	1 & 2	1 & 2	2 & 3
100MHz	66MHz	1.5x	2 & 3	1 & 2	1 & 2	1 & 2
120MHz	60MHz	2x	2 & 3	1 & 2	1 & 2	2 & 3
133MHz	66MHz	2x	2 & 3	1 & 2	1 & 2	1 & 2
150MHz	60MHz	2.5x	2 & 3	1 & 2	1 & 2	2 & 3
166MHz	66MHz	2.5x	2 & 3	1 & 2	1 & 2	1 & 2

166MHz	66MHz	2.5x	2 & 3	1 & 2	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 (INTEL MMX)

CPU speed	Clock speed	Multiplier	JP6	JP7	JP8
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3
200MHz	66MHz	3x	1 & 2	1 & 2	2 & 3
233MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (INTEL MMX, CON'T)

CPU speed	Clock speed	Multiplier	JP2	JP3	JP4	JP5
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 VOLTAGE SELECTION

Voltage	JP2/pins 1 & 2	JP2/pins 3 & 4	JP2/pins 5 & 6	JP2/pins 7 & 8
2.2v	Open	Closed	Open	Open
2.8v	Open	Open	Open	Closed
2.9v	Closed	Open	Open	Closed
3.2v	Open	Open	Closed	Closed
3.3v	Closed	Open	Closed	Closed
3.52v	Closed	Closed	Closed	Closed