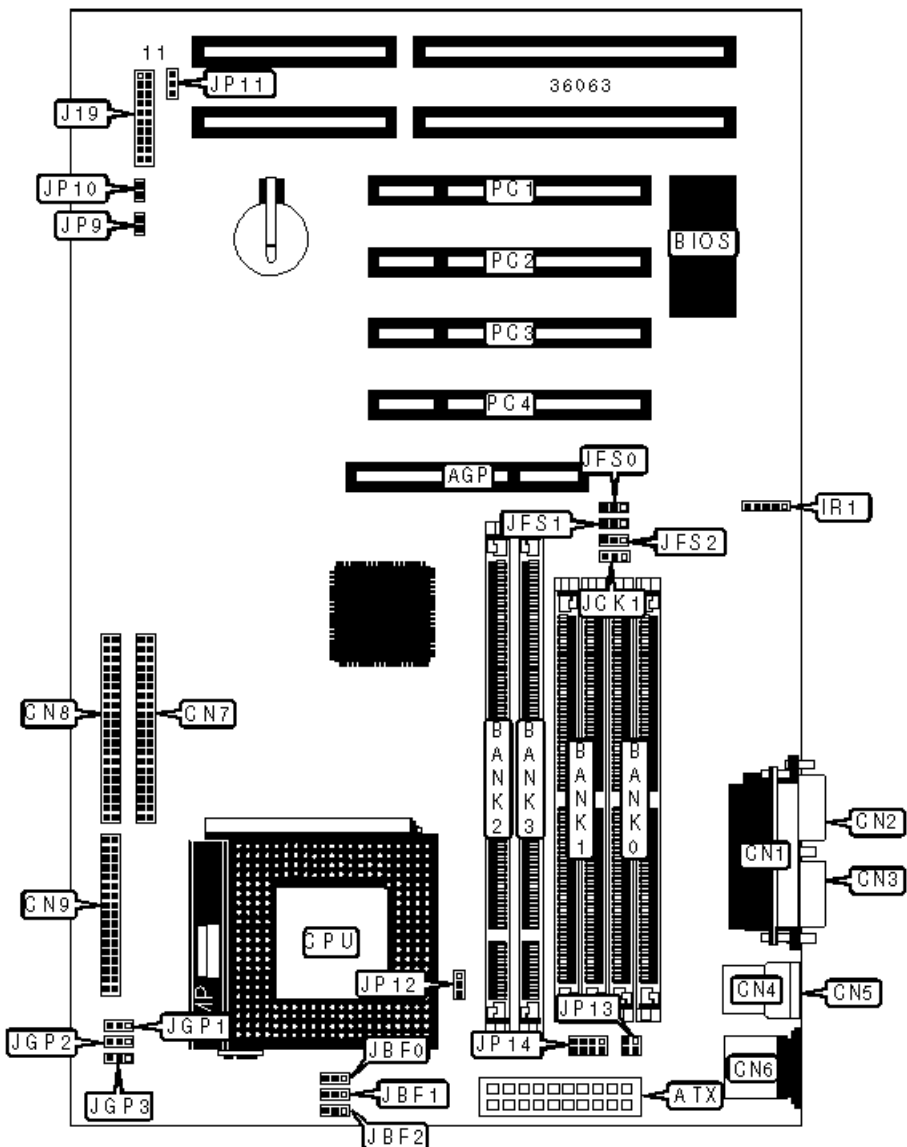


TEKRAM TECHNOLOGY CO., LTD.

P5MVP-A4

Device Type	Mainboard
Processor	CX 6X86/CX 686MX/CX MIII/AM K5/AM K6/AM K6-2/ IDT C6/Pentium/Pentium MMX
Processor Speed	120/133/150/166/180/200/233/266/300/333MHz
Chip Set	VIA MVP3
Maximum Onboard Memory	512MB (EDO & SDRAM supported)
Cache	512/1024KB
BIOS	Award
Dimensions	305mm x 185mm
I/O Options	32-bit PCI slots (4), 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, wake on LAN connector



CONNECTIONS

Purpose	Location	Purpose	Location
AGP slot	AGP	IR connector	IR1
ATX power connector	ATX	Power LED & keylock	J19/pins 2/4/6/8/10
Parallel port	CN1	Turbo LED	J19/pins 3 & 5
Serial port 2	CN2	Green PC connector	J19/pins 7 & 9
Serial port 1	CN3	Speaker	J19/pins 14/16/18/20
USB connector 1	CN4	Reset switch	J19/pins 17 & 19
USB connector 2	CN5	Soft off power supply	JP9
PS/2 mouse port	CN6	IDE interface LED	JP10
Floppy drive interface	CN7	Wake on LAN connector	JP11
IDE interface 2	CN8	Chassis fan power	JP12
IDE interface 1	CN9	32-bit PCI slots	PC1 - PC4

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
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.		

DIMM CONFIGURATION		
Size	Bank 2	Bank 3
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) 16M x 64	None
128MB	(1) 8M x 64	(1) 8M x 64
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) 32M x 64	None
256MB	(1) 16M x 64	(1) 16M x 64
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 SDRAM memory.

DIMM FREQUENCY CONFIGURATION

CPU frequency	SDRAM frequency	JCK1	JGP1	JGP2	JGP3
66MHz	66MHz	2 & 3	2 & 3	2 & 3	1 & 2
75MHz	75MHz	2 & 3	2 & 3	2 & 3	1 & 2
83MHz	83MHz	1 & 2	1 & 2	1 & 2	2 & 3
95MHz	95MHz	1 & 2	2 & 3	1 & 2	2 & 3
100MHz	66MHz	2 & 3	2 & 3	1 & 2	1 & 2
100MHz	100MHz	1 & 2	2 & 3	1 & 2	2 & 3

Note: Pins designated should be in the closed position.

CACHE CONFIGURATION

Note: The location of the cache is unidentified.

CPU SPEED SELECTION (CX 6X86)

CPU speed	Clock speed	Multiplier	JBF0	JBF1	JBF2	JFS0	JFS1	JFS2
166MHz	66MHz	2x	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3
200MHz	75MHz	2x	1 & 2	1 & 2	2 & 3	1 & 2	1 & 2	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX 6X86MX)

CPU speed	Clock speed	Multiplier	JBF0	JBF1	JBF2	JFS0	JFS1	JFS2
166MHz	66MHz	2x	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3
200MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3
200MHz	75MHz	2x	1 & 2	1 & 2	2 & 3	1 & 2	1 & 2	2 & 3
233MHz	75MHz	2.5x	1 & 2	2 & 3	2 & 3	1 & 2	1 & 2	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX MII)

CPU speed	Clock speed	Multiplier	JBF0	JBF1	JBF2	JFS0	JFS1	JFS2
266MHz	83MHz	2.5x	1 & 2	2 & 3	2 & 3	1 & 2	2 & 3	1 & 2
300MHz	66MHz	3.5x	1 & 2	1 & 2	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	JBF0	JBF1	JBF2	JFS0	JFS1	JFS2
133MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3
200MHz	66MHz	3x	1 & 2	2 & 3	1 & 2	1 & 2	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K6)

CPU speed	Clock speed	Multiplier	JBF0	JBF1	JBF2	JFS0	JFS1	JFS2
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3
200MHz	66MHz	3x	1 & 2	2 & 3	1 & 2	1 & 2	2 & 3	2 & 3
233MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3
266MHz	66MHz	4x	2 & 3	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3
300MHz	66MHz	4.5x	2 & 3	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K6-2)

CPU speed	Clock speed	Multiplier	JBF0	JBF1	JBF2	JFS0	JFS1	JFS2
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266MHz	95MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 3	1 & 2	1 & 2
300MHz	100MHz	3x	1 & 2	2 & 3	1 & 2	1 & 2	1 & 2	1 & 2
333MHz	100MHz	3.5x	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (IDT C6)

CPU speed	Clock speed	Multiplier	JBF0	JBF1	JBF2	JFS0	JFS1	JFS2
150MHz	75MHz	2x	1 & 2	1 & 2	2 & 3	1 & 2	1 & 2	2 & 3
200MHz	66MHz	3x	1 & 2	2 & 3	1 & 2	1 & 2	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (INTEL)

CPU speed	Clock speed	Multiplier	JBF0	JBF1	JBF2	JFS0	JFS1	JFS2
133MHz	66MHz	2x	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3
200MHz	66MHz	3x	1 & 2	2 & 3	1 & 2	1 & 2	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (INTEL MMX)

CPU speed	Clock speed	Multiplier	JBF0	JBF1	JBF2	JFS0	JFS1	JFS2
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3
200MHz	66MHz	3x	1 & 2	2 & 3	1 & 2	1 & 2	2 & 3	2 & 3
233MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

CPU VOLTAGE SELECTION (SINGLE)

Voltage	JP13
3.3v	Pins 1 & 2 closed
3.5v	Open

CPU VOLTAGE SELECTION (DUAL)				
Voltage	JP14/pins 1 & 2	JP14/pins 3 & 4	JP14/pins 5 & 6	JP14/pins 7 & 8
2.0v	Open	Open	Open	Open
2.1v	Closed	Open	Open	Open
2.2v	Open	Closed	Open	Open
2.3v	Closed	Closed	Open	Open
2.4v	Open	Open	Closed	Open
2.5v	Closed	Open	Closed	Open
2.6v	Open	Open	Open	Open
2.7v	Closed	Closed	Closed	Open
2.8v	Open	Open	Open	Closed
2.9v	Closed	Open	Open	Closed
3.0v	Closed	Open	Closed	Open
3.1v	Closed	Open	Closed	Closed
3.2v	Closed	Closed	Open	Open