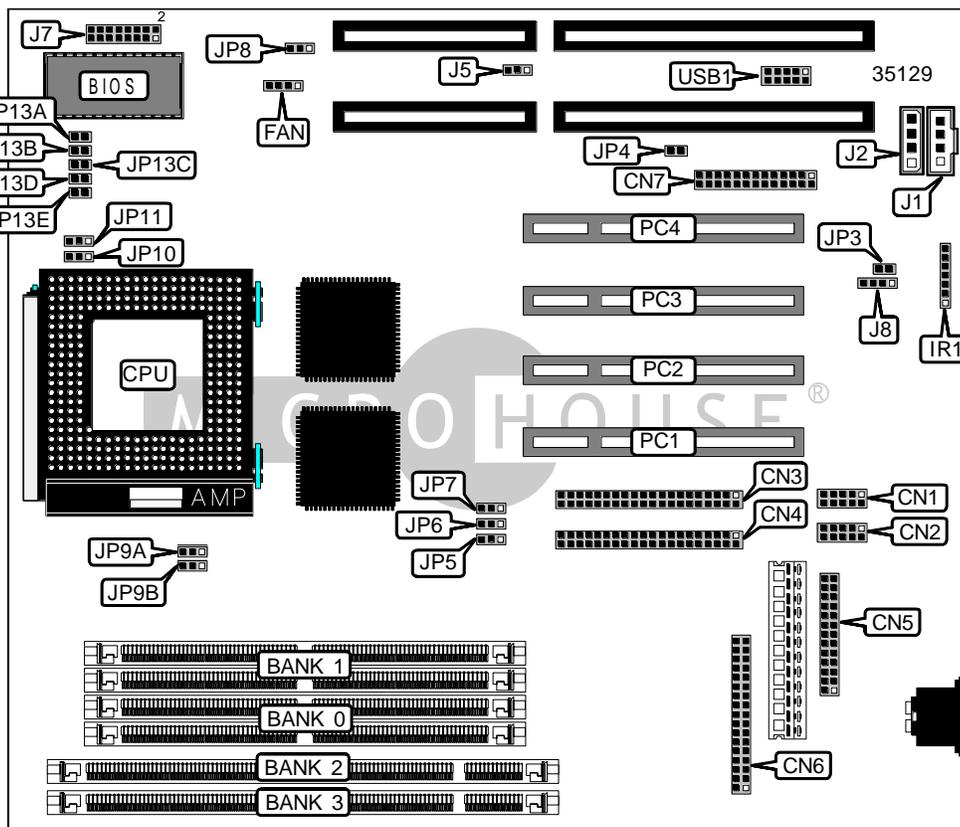


# PC CHIPS MANUFACTURING, LTD.

## M 5 5 9

Device Type	Mainboard
Processor	CX 6X86/IBM 6X86/CX 6X86L/IBM 6X86L/CX 6X86MX/IBM 6X86MX/ IDT C6/AMK5/AMK6/Pentium/Pentium MMX
Processor Speed	75/90/100/120/133/150/166/180/200/233MHz
Chip Set	Intel VX Pro II
Maximum Onboard Memory	128MB (EDO supported)
Cache	512KB
BIOS	AMI
I/O Options	32-bit PCI slots (4), Audio in - CD-ROM (2), floppy drive interface, game/sound interface, IDE interfaces (2), parallel port, serial ports (2), USB connector, IR connector, Digital audio line in, Digital audio line out



CONNECTIONS			
Purpose	Location	Purpose	Location
Serial port 2	CN1	Audio in - CD-ROM (Panasonic)	J2
Serial port 1	CN2	Power LED & keylock	J7/pins 1, 3, 5, 7, 9
IDE interface 1	CN3	Speaker	J7/pins 2, 4, 6, 8
IDE interface 2	CN4	IDE interface LED	J7/pins 13 & 14
Parallel port	CN5	Reset switch	J7/pins 15 & 16
Floppy drive interface	CN6	Digital audio line in	J8/pins 1 & 2
Sound & game connector	CN7	Digital audio line out	J8/pins 3 & 4
Fan connector	FAN	32-bit PCI slots	PC1 - 4
IR connector	IR1	USB connector	USB1
Audio in - CD-ROM (Sony)	J1		

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USER CONFIGURABLE SETTINGS		
Function	Label	Position
í CMOS memory normal operation	J5	Pins 1 & 2 closed
CMOS memory clear	J5	Pins 2 & 3 closed
Onboard Sound Pro enabled	JP3	Open
Onboard Sound Pro disabled	JP3	Closed
Special microphone selected	JP4	Closed
Normal microphone selected	JP4	Open
Flash BIOS Voltage Select 12V	JP8	Pins 1 & 2 closed
Flash BIOS Voltage Select 5V	JP8	Pins 2 & 3 closed

SIMM CONFIGURATION		
Size	Bank 0	Bank 1
8MB	(2) 1MB x 36	None
16MB	(2) 1MB x 36	(2) 1MB x 36
16MB	(2) 2MB x 36	None
24MB	(2) 2MB x 36	(2) 1MB x 36
32MB	(2) 2MB x 36	(2) 2MB x 36
32MB	(2) 4MB x 36	None
40MB	(2) 4MB x 36	(2) 1MB x 36
48MB	(2) 4MB x 36	(2) 2MB x 36
64MB	(2) 4MB x 36	(2) 4MB x 36
64MB	(2) 8MB x 36	None
72MB	(2) 8MB x 36	(2) 1MB x 36
80MB	(2) 8MB x 36	(2) 2MB x 36
96MB	(2) 8MB x 36	(2) 4MB x 36
128MB	(2) 8MB x 36	(2) 8MB x 36
128MB	(2) 16MB x 36	None

Note: It is not recommended you use SIMM and DIMM banks together.

DIMM CONFIGURATION		
Size	Bank 2	Bank 3
8MB	(1) 1MB x 64	None
16MB	(1) 1MB x 64	(1) 2MB x 64
16MB	(1) 2MB x 64	None
24MB	(1) 2MB x 64	(1) 1MB x 64
32MB	(1) 2MB x 64	(1) 2MB x 64
32MB	(1) 4MB x 64	None
40MB	(1) 4MB x 64	(1) 1MB x 64
48MB	(1) 4MB x 64	(1) 2MB x 64
64MB	(1) 4MB x 64	(1) 4MB x 64
64MB	(1) 8MB x 64	None
72MB	(1) 8MB x 64	(1) 1MB x 64
80MB	(1) 8MB x 64	(1) 2MB x 64
96MB	(1) 8MB x 64	(1) 4MB x 64
128MB	(1) 8MB x 64	(1) 8MB x 64
128MB	(1) 16MB x 64	None

Note: It is not recommended you use SIMM and DIMM banks together.

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CPU SPEED SELECTION (CX 6X86)							
CPU Speed	Clock speed	Multiplier	JP5	JP6	JP7	JP10	JP11
120MHz	50MHz	2x	2 & 3	2 & 3	2 & 3	2 & 3	1 & 2
133MHz	55MHz	2x	1 & 2	2 & 3	2 & 3	2 & 3	1 & 2
150MHz	60MHz	2x	2 & 3	2 & 3	1 & 2	2 & 3	1 & 2
166MHz	66MHz	2x	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2
200MHz	75MHz	2x	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2

Note: Numbers designate pins that should be closed.

CPU SPEED SELECTION (CX 6X86L)							
CPU Speed	Clock speed	Multiplier	JP5	JP6	JP7	JP10	JP11
150MHz	60MHz	2x	2 & 3	2 & 3	1 & 2	2 & 3	1 & 2
166MHz	66MHz	2x	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2
200MHz	66MHz	2.5x	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3

Note: Numbers designate pins that should be closed.

CPU SPEED SELECTION (CX 6X86MX)							
CPU Speed	Clock speed	Multiplier	JP5	JP6	JP7	JP10	JP11
166MHz	50MHz	3x	2 & 3	2 & 3	2 & 3	1 & 2	2 & 3
200MHz	66MHz	2.5x	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3
233MHz	66MHz	3x	2 & 3	1 & 2	2 & 3	1 & 2	2 & 3

Note: Numbers designate pins that should be closed.

CPU SPEED SELECTION (IBM 6X86)							
CPU Speed	Clock speed	Multiplier	JP5	JP6	JP7	JP10	JP11
120MHz	50MHz	2x	2 & 3	2 & 3	2 & 3	2 & 3	1 & 2
133MHz	55MHz	2x	1 & 2	2 & 3	2 & 3	2 & 3	1 & 2
150MHz	60MHz	2x	2 & 3	2 & 3	1 & 2	2 & 3	1 & 2
166MHz	66MHz	2x	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2
200MHz	75MHz	2x	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2

Note: Numbers designate pins that should be closed.

CPU SPEED SELECTION (IBM 6X86L)							
CPU Speed	Clock speed	Multiplier	JP5	JP6	JP7	JP10	JP11
150MHz	60MHz	2x	2 & 3	2 & 3	1 & 2	2 & 3	1 & 2
166MHz	66MHz	2x	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2
200MHz	75MHz	2x	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2

Note: Numbers designate pins that should be closed.

CPU SPEED SELECTION (IBM 6X86MX)							
CPU Speed	Clock speed	Multiplier	JP5	JP6	JP7	JP10	JP11
166MHz	50MHz	3x	2 & 3	2 & 3	2 & 3	1 & 2	2 & 3
200MHz	66MHz	2.5x	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3
233MHz	66MHz	3x	2 & 3	1 & 2	2 & 3	1 & 2	2 & 3

Note: Numbers designate pins that should be closed.

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CPU SPEED SELECTION (IDT C6)							
CPU Speed	Clock speed	Multiplier	JP5	JP6	JP7	JP10	JP11
150MHz	50MHz	3x	2 & 3	2 & 3	2 & 3	1 & 2	2 & 3
180MHz	60MHz	3x	2 & 3	2 & 3	1 & 2	1 & 2	2 & 3

Note: Numbers designate pins that should be closed.

CPU SPEED SELECTION (AM K5)							
CPU Speed	Clock Speed	Multiplier	JP5	JP6	JP7	JP10	JP11
75MHz	50MHz	1.5x	2 & 3	2 & 3	2 & 3	1 & 2	1 & 2
90MHz	60MHz	1.5x	2 & 3	2 & 3	1 & 2	1 & 2	1 & 2
100MHz	66MHz	1.5x	2 & 3	1 & 2	2 & 3	1 & 2	1 & 2
120MHz	60MHz	1.5x	2 & 3	2 & 3	1 & 2	1 & 2	1 & 2
133MHz	66MHz	1.5x	2 & 3	1 & 2	2 & 3	1 & 2	1 & 2

Note: Pins designated should be in the closed position

CPU SPEED SELECTION (AM K6)							
CPU Speed	Clock Speed	Multiplier	JP5	JP6	JP7	JP10	JP11
166MHz	66MHz	2.5x	2 & 3	1 & 2	2 & 3	2 & 3	2 & 3
200MHz	66MHz	3x	2 & 3	1 & 2	2 & 3	1 & 2	2 & 3
233MHz	66MHz	3.5x	2 & 3	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	JP5	JP6	JP7	JP10	JP11
75MHz	50MHz	1.5x	2 & 3	2 & 3	2 & 3	1 & 2	1 & 2
90MHz	60MHz	1.5x	2 & 3	2 & 3	1 & 2	1 & 2	1 & 2
100MHz	66MHz	1.5x	2 & 3	1 & 2	2 & 3	1 & 2	1 & 2
120MHz	60MHz	2x	2 & 3	2 & 3	1 & 2	2 & 3	1 & 2
133MHz	66MHz	2x	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2
150MHz	60MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 3	2 & 3
166MHz	66MHz	2.5x	2 & 3	1 & 2	2 & 3	2 & 3	2 & 3
180MHz	60MHz	3x	2 & 3	2 & 3	1 & 2	1 & 2	2 & 3
200MHz	66MHz	3x	2 & 3	1 & 2	2 & 3	1 & 2	2 & 3

Note: Numbers designate pins that should be closed.

CPU SPEED SELECTION (INTEL MMX)							
CPU Speed	Clock speed	Multiplier	JP5	JP6	JP7	JP10	JP11
166MHz	66MHz	2.5x	2 & 3	1 & 2	2 & 3	2 & 3	2 & 3
200MHz	66MHz	3x	2 & 3	1 & 2	2 & 3	1 & 2	2 & 3
233MHz	66MHz	3.5x	2 & 3	1 & 2	2 & 3	1 & 2	1 & 2

Note: Numbers designate pins that should be closed.

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CPU TYPE SELECTION		
Type	JP9A	JP9B
AM K5	Pins 1 & 2 closed	Pins 1 & 2 closed
AM K6	Pins 2 & 3 closed	Pins 2 & 3 closed
CX 6X86	Pins 1 & 2 closed	Pins 1 & 2 closed
CX 6X86L	Pins 2 & 3 closed	Pins 2 & 3 closed
CX 6X86MX	Pins 2 & 3 closed	Pins 2 & 3 closed
IBM 6X86	Pins 1 & 2 closed	Pins 1 & 2 closed
IBM 6X86L	Pins 2 & 3 closed	Pins 2 & 3 closed
IBM 6X86MX	Pins 2 & 3 closed	Pins 2 & 3 closed
IDT C6	Pins 1 & 2 closed	Pins 1 & 2 closed
P54C	Pins 1 & 2 closed	Pins 1 & 2 closed
P55C	Pins 2 & 3 closed	Pins 2 & 3 closed

CPU VOLTAGE SELECTION					
Voltage	JP13A	JP13B	JP13C	JP13D	JP13E
2.5V	Open	Open	Open	Open	Open
2.8V	Open	Open	Open	Open	Closed
2.9V	Open	Open	Open	Closed	Open
3.2V	Open	Open	Closed	Open	Open
3.3V	Open	Closed	Open	Open	Open
3.5V	Closed	Open	Open	Open	Open