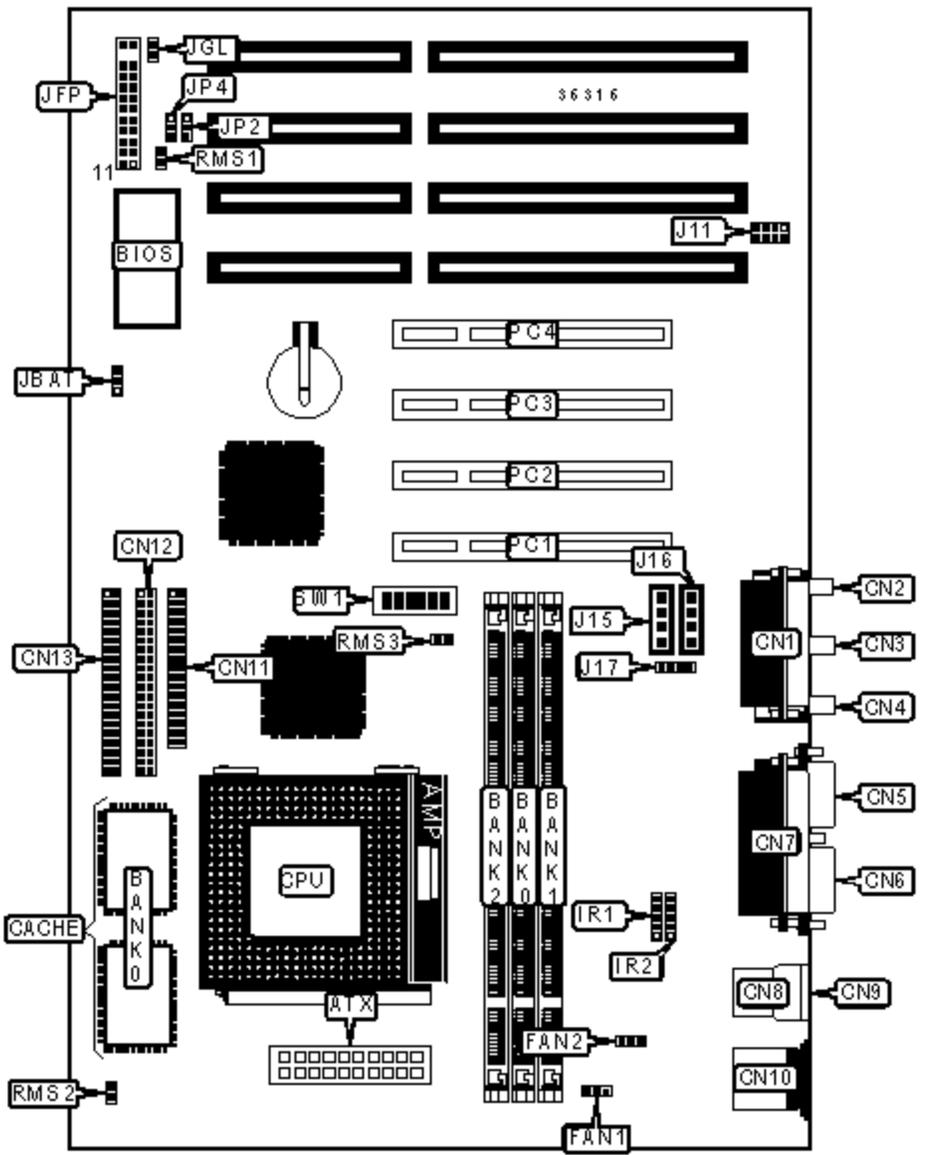


MICRO-STAR INTERNATIONAL CO.,LTD.

MS-5153

Device Type	Mainboard
Processor	CX 6X86/CX 6X86L/CX 686MX/AM K5/AM K6/Pentium/Pentium MMX
Processor Speed	90/100/120/133/150/166/200/233/266MHz
Chip Set	Intel 430TX
Maximum Onboard Memory	256MB (EDO & SDRAM supported)
Audio Chip Set	Creative
Cache	512KB
BIOS	Unidentified
Dimensions	305mm x 186mm
I/O Options	32-bit PCI slots (4), floppy drive interface, game/MIDI port, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), IR connectors (2), USB connectors (2), ATX power connector, line in, line out, microphone in, wavetable connector, audio in - CD-ROMs (2)



CONNECTIONS			
Purpose	Location	Purpose	Location
ATX power connector	ATX	IR connector	IR2

Game/MIDI port	CN1	Wavetable connector	J11
Microphone in	CN2	Audio in - CD-ROM	J15
Line in	CN3	Audio in - CD-ROM	J16
Line out	CN4	Audio in - CD-ROM	J17
Serial port 2	CN5	Green PC LED	JGL
Serial port 1	CN6	Power LED & keylock	JFP/pins 1 - 5
Parallel port	CN7	Speaker	JFP/pins 7 & 10
USB connector 1	CN8	Green PC connector	JFP/pins 8 & 9
USB connector 2	CN9	Turbo LED	JFP/pins 12 & 13
PS/2 mouse port	CN10	Reset switch	JFP/pins 19 & 20
Floppy drive interface	CN11	IDE interface LED	JFP/pins 21 & 22
IDE interface 1	CN12	32-bit PCI slots	PC1 - PC4
IDE interface 2	CN13	Soft off power supply	RMS1
IR connector	IR1	Soft off power supply	RSM2

USER CONFIGURABLE SETTINGS

Function		Label	Position
»	CMOS memory normal operation	JBAT	Pins 1 & 2 closed
	CMOS memory clear	JBAT	Pins 2 & 3 closed
»	Flash BIOS voltage select 5v	JP2	Pins 1 & 2 closed
	Flash BIOS voltage select 12v	JP2	Pins 2 & 3 closed
»	Flash BIOS write protect disabled	JP4	Pins 1 & 2 closed
	Flash BIOS write protect enabled	JP4	Pins 2 & 3 closed
»	Factory configured - do not alter	RMS3	Unidentified

DIMM CONFIGURATION

Size	Bank 0	Bank 1	Bank 2
8MB	(1) 1M x 64	None	None
16MB	(1) 2M x 64	None	None
16MB	(1) 1M x 64	(1) 1M x 64	None
24MB	(1) 2M x 64	(1) 1M x 64	None
24MB	(1) 1M x 64	(1) 1M x 64	(1) 1M x 64
32MB	(1) 4M x 64	None	None
32MB	(1) 2M x 64	(1) 1M x 64	(1) 1M x 64
32MB	(1) 2M x 64	(1) 2M x 64	None
40MB	(1) 4M x 64	(1) 1M x 64	None
40MB	(1) 2M x 64	(1) 2M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 1M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 2M x 64	None
48MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
56MB	(1) 4M x 64	(1) 2M x 64	(1) 1M x 64

DIMM CONFIGURATION (CON'T)

Size	Bank 0	Bank 1	Bank 2
64MB	(1) 8M x 64	None	None
64MB	(1) 4M x 64	(1) 2M x 64	(1) 2M x 64
64MB	(1) 4M x 64	(1) 4M x 64	None
72MB	(1) 8M x 64	(1) 1M x 64	None
72MB	(1) 4M x 64	(1) 4M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 1M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 2M x 64	None
80MB	(1) 4M x 64	(1) 4M x 64	(1) 2M x 64
88MB	(1) 8M x 64	(1) 2M x 64	(1) 1M x 64
96MB	(1) 8M x 64	(1) 2M x 64	(1) 2M x 64

96MB	(1) 8M x 64	(1) 4M x 64	None
96MB	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64
104MB	(1) 8M x 64	(1) 4M x 64	(1) 1M x 64
112MB	(1) 8M x 64	(1) 4M x 64	(1) 2M x 64
128MB	(1) 16M x 64	None	None
128MB	(1) 8M x 64	(1) 4M x 64	(1) 4M x 64
128MB	(1) 8M x 64	(1) 8M x 64	None
136MB	(1) 16M x 64	(1) 1M x 64	None
136MB	(1) 8M x 64	(1) 8M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 1M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 2M x 64	None
144MB	(1) 8M x 64	(1) 8M x 64	(1) 2M x 64
152MB	(1) 16M x 64	(1) 2M x 64	(1) 1M x 64
160MB	(1) 16M x 64	(1) 2M x 64	(1) 2M x 64
160MB	(1) 16M x 64	(1) 4M x 64	None
160MB	(1) 8M x 64	(1) 8M x 64	(1) 4M x 64
168MB	(1) 16M x 64	(1) 4M x 64	(1) 1M x 64
176MB	(1) 16M x 64	(1) 4M x 64	(1) 2M x 64
192MB	(1) 16M x 64	(1) 4M x 64	(1) 4M x 64
192MB	(1) 16M x 64	(1) 8M x 64	None
192MB	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64
200MB	(1) 16M x 64	(1) 8M x 64	(1) 1M x 64
208MB	(1) 16M x 64	(1) 8M x 64	(1) 2M x 64
224MB	(1) 16M x 64	(1) 8M x 64	(1) 4M x 64
256MB	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64

Note: Board accepts EDO & SDRAM memory.

CACHE CONFIGURATION

Size	Bank 0
512KB	(2) 64K x 32

CPU SPEED SELECTION (CX 6X86)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6
133MHz	55MHz	2x	On	Off	Off	On	On	Off
150MHz	60MHz	2x	On	Off	Off	On	Off	Off
166MHz	66MHz	2x	On	Off	Off	Off	Off	Off

CPU SPEED SELECTION (CX 6X86L)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6
166MHz	66MHz	2x	On	Off	Off	Off	Off	Off

CPU SPEED SELECTION (CX 6X86MX)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6
166MHz	60MHz	2.5x	On	On	Off	On	Off	Off
166MHz	66MHz	2x	On	Off	Off	Off	Off	Off
200MHz	66MHz	2.5x	On	On	Off	Off	Off	Off
200MHz	75MHz	2x	On	Off	Off	On	Off	Off
233MHz	66MHz	3x	Off	On	Off	Off	Off	Off
233MHz	75MHz	2.5x	On	On	Off	On	Off	Off
266MHz	66MHz	3.5x	Off	Off	Off	Off	Off	Off
266MHz	75MHz	3x	Off	On	Off	Off	Off	Off

CPU SPEED SELECTION (CX 6X86MX MMX)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6
166MHz	60MHz	2.5x	On	Off	Off	On	Off	Off

200MHz	66MHz	2.5x	On	Off	Off	On	Off	Off
233MHz	75MHz	2.5x	Off	On	Off	On	Off	Off

CPU SPEED SELECTION (AM K5)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6
90MHz	60MHz	1.5x	Off	Off	Off	On	Off	Off
100MHz	66MHz	1.5x	Off	Off	Off	Off	Off	Off
120MHz	60MHz	2x	On	Off	Off	On	Off	Off
133MHz	66MHz	2x	On	Off	Off	Off	Off	Off
150MHz	60MHz	2.5x	On	On	Off	On	Off	Off
166MHz	66MHz	2.5x	On	On	Off	Off	Off	Off

CPU SPEED SELECTION (AM K6)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6
166MHz	66MHz	2.5x	On	On	Off	Off	Off	Off
200MHz	66MHz	3x	Off	On	Off	Off	Off	Off
233MHz	66MHz	3.5x	Off	Off	Off	Off	Off	Off

CPU SPEED SELECTION (INTEL)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6
90MHz	60MHz	1.5x	Off	Off	Off	On	Off	Off
100MHz	66MHz	1.5x	Off	Off	Off	Off	Off	Off
120MHz	60MHz	2x	On	Off	Off	On	Off	Off
133MHz	66MHz	2x	On	Off	Off	Off	Off	Off
150MHz	60MHz	2.5x	On	On	Off	On	Off	Off
166MHz	66MHz	2.5x	On	On	Off	Off	Off	Off
200MHz	66MHz	3x	Off	On	Off	Off	Off	Off

CPU SPEED SELECTION (INTEL MMX)

CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6
166MHz	66MHz	2.5x	On	On	Off	Off	Off	Off
200MHz	66MHz	3x	Off	On	Off	Off	Off	Off
233MHz	66MHz	3.5x	Off	Off	Off	Off	Off	Off