MICRO-STAR INTERNATIONAL CO., LTD.
MS-5143 (VER. 2)

Processor	CX M1/AM K5/Pentium
Processor Speed	75/90/100/120/133/150/166/200MHz
Chip Set	Intel
Video Chip Set	None
Maximum Onboard Memory	128MB (EDO supported)
Maximum Video Memory	None
Cache	256/512KB
BIOS	Unidentified
Dimensions	305mm x 235mm
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 connector, ATX power connector
NPU Options	None
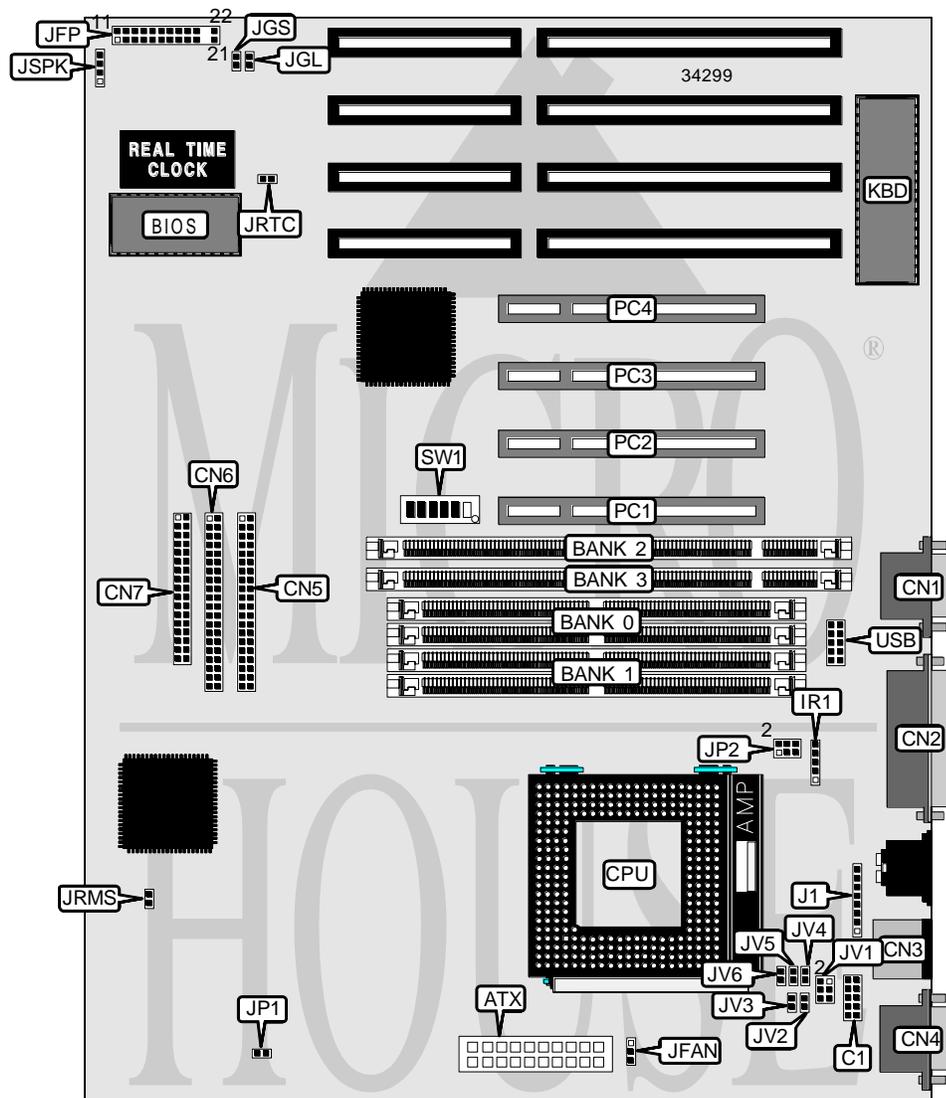
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M S - 5 1 4 3 (V E R . 2)

CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
ATX power connector	ATX	Speaker	JFP/pins 7 - 10
Serial port 2	CN1	Turbo LED	JFP/pins 12 & 13
Parallel port	CN2	Reset switch	JFP/pins 19 & 20
PS/2 mouse port	CN3	IDE interface LED	JFP/pins 21 & 22
Serial port 1	CN4	Chassis fan power	JFAN
IDE interface 1	CN5	Green PC LED	JGL
IDE interface 2	CN6	Green PC connector	JGS
Floppy drive interface	CN7	Soft off power supply	JRMS
Auxiliary keyboard mouse	J1	Speaker	JSPK
IR connector	IR1	32-bit PCI slots	PC1 – PC4
Power LED & keylock	JFP/pins 1 - 5	USB connector	USB

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
í Factory configured - do not alter	C1	Unidentified
í Factory configured - do not alter	JP1	Unidentified
í Factory configured - do not alter	JRTC	Unidentified

DIMM/DRAM CONFIGURATION				
Size	**Bank 0**	**Bank 1**	**Bank 2**	**Bank 3**
8MB	(2) 1M x 36	None	None	None
8MB	None	None	(1) 1M x 64	None
16MB	(2) 2M x 36	None	None	None
16MB	None	None	(1) 2M x 64	None
16MB	(2) 1M x 36	(2) 1M x 36	None	None
16MB	(2) 1M x 36	None	(1) 1M x 64	None
24MB	None	(2) 2M x 36	(1) 1M x 64	None
32MB	(2) 4M x 36	None	None	None
32MB	None	None	(1) 4M x 64	None
32MB	(2) 2M x 36	None	(1) 2M x 64	None
40MB	(2) 4M x 36	(2) 1M x 36	None	None
40MB	(2) 4M x 36	None	(1) 1M x 64	None
48MB	(2) 2M x 36	None	(1) 4M x 64	None
48MB	(2) 4M x 36	(2) 2M x 36	None	None
64MB	(2) 8M x 36	None	None	None
64MB	None	None	None	(1) 8M x 64
64MB	(2) 4M x 36	(2) 4M x 36	None	None
64MB	(2) 4M x 36	None	(1) 4M x 64	None
64MB	None	None	(1) 4M x 64	(1) 4M x 64
72MB	(2) 8M x 36	(2) 1M x 36	None	None

MICRO-STAR INTERNATIONAL CO., LTD.
MS-5143 (VER. 2)

DIMM/DRAM CONFIGURATION (CON'T)				
Size	**Bank 0**	**Bank 1**	**Bank 2**	**Bank 3**
72MB	(2) 8M x 36	None	(1) 1M x 64	None
80MB	None	(2) 2M x 36	(1) 8M x 64	None
80MB	(2) 8M x 36	(2) 2M x 36	None	None
80MB	(2) 8M x 36	None	(1) 2M x 64	None
96MB	(2) 8M x 36	(2) 4M x 36	None	None
96MB	(2) 8M x 36	None	(1) 4M x 64	None
96MB	None	(2) 8M x 36	(1) 4M x 64	None
128MB	None	None	(1) 8M x 64	(1) 8M x 64
128MB	(2) 8M x 36	(2) 8M x 36	None	None
128MB	(2) 8M x 36	None	(1) 8M x 64	None
Note: Board accepts EDO memory. Banks 0 & 1 and 2 & 3 are interchangeable.				

DIMM VOLTAGE CONFIGURATION	
Voltage	**JP2**
3.3v	Pins 1 & 3, 2 & 4 closed
5v	Pins 3 & 5, 4 & 6 closed

CACHE CONFIGURATION
Note: Board accepts 256KB/512Kb cache. The size of the chips and location are unidentified.

CPU SPEED SELECTION (AMD)								
CPU speed	**Clock speed**	**Multiplier**	**SW1/1**	**SW1/2**	**SW1/3**	**SW1/4**	**SW1/5**	**SW1/6**
75MHz	50MHz	1.5x	Off	Off	On	On	Off	Off
90MHz	60MHz	1.5x	Off	Off	On	Off	Off	Off
100MHz	66MHz	1.5x	Off	Off	Off	Off	Off	Off
120MHz	60MHz	2x	On	Off	On	Off	Off	Off
133MHz	66MHz	2x	On	Off	Off	Off	Off	Off
150MHz	60MHz	2.5x	On	On	On	Off	Off	Off
166MHz	66MHz	2.5x	On	On	Off	Off	Off	Off

CPU SPEED SELECTION (CYRIX)								
CPU speed	**Clock speed**	**Multiplier**	**SW1/1**	**SW1/2**	**SW1/3**	**SW1/4**	**SW1/5**	**SW1/6**
120MHz	50MHz	2x	On	Off	On	On	Off	Off
133MHz	55MHz	2x	On	Off	Off	On	Off	Off
150MHz	60MHz	2x	On	Off	On	Off	Off	Off
166MHz	66MHz	2x	On	Off	Off	Off	Off	Off

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MS-5143 (VER. 2)

CPU SPEED SELECTION (INTEL)								
CPU speed	**Clock speed**	**Multiplier**	**SW1/1**	**SW1/2**	**SW1/3**	**SW1/4**	**SW1/5**	**SW1/6**
75MHz	50MHz	1.5x	Off	Off	On	On	Off	Off
90MHz	60MHz	1.5x	Off	Off	On	Off	Off	Off
100MHz	66MHz	1.5x	Off	Off	Off	Off	Off	Off
120MHz	60MHz	2x	On	Off	On	Off	Off	Off
133MHz	66MHz	2x	On	Off	Off	Off	Off	Off
150MHz	60MHz	2.5x	On	On	On	Off	Off	Off
166MHz	66MHz	2.5x	On	On	Off	Off	Off	Off
200MHz	66MHz	3x	Off	On	Off	Off	Off	Off

CPU VOLTAGE SELECTION (SINGLE)						
Voltage	**JV1**	**JV2**	**JV3**	**JV4**	**JV5**	**JV6**
3.38v	3 & 5, 4 & 6	Closed	Open	Open	Open	Open
3.52v	3 & 5, 4 & 6	Open	Closed	Open	Open	Open
Note: Pins designated should be in the closed position.						

CPU VOLTAGE SELECTION (DUAL)							
Voltage	**V core**	**JV1**	**JV2**	**JV3**	**JV4**	**JV5**	**JV6**
3.3v	2.5v	1 & 3, 2 & 4	Open	Open	Closed	Open	Open
3.3v	2.8v	1 & 3, 2 & 4	Open	Open	Open	Closed	Open
3.3v	2.9v	1 & 3, 2 & 4	Open	Open	Open	Open	Closed
Note: Pins designated should be in the closed position.							