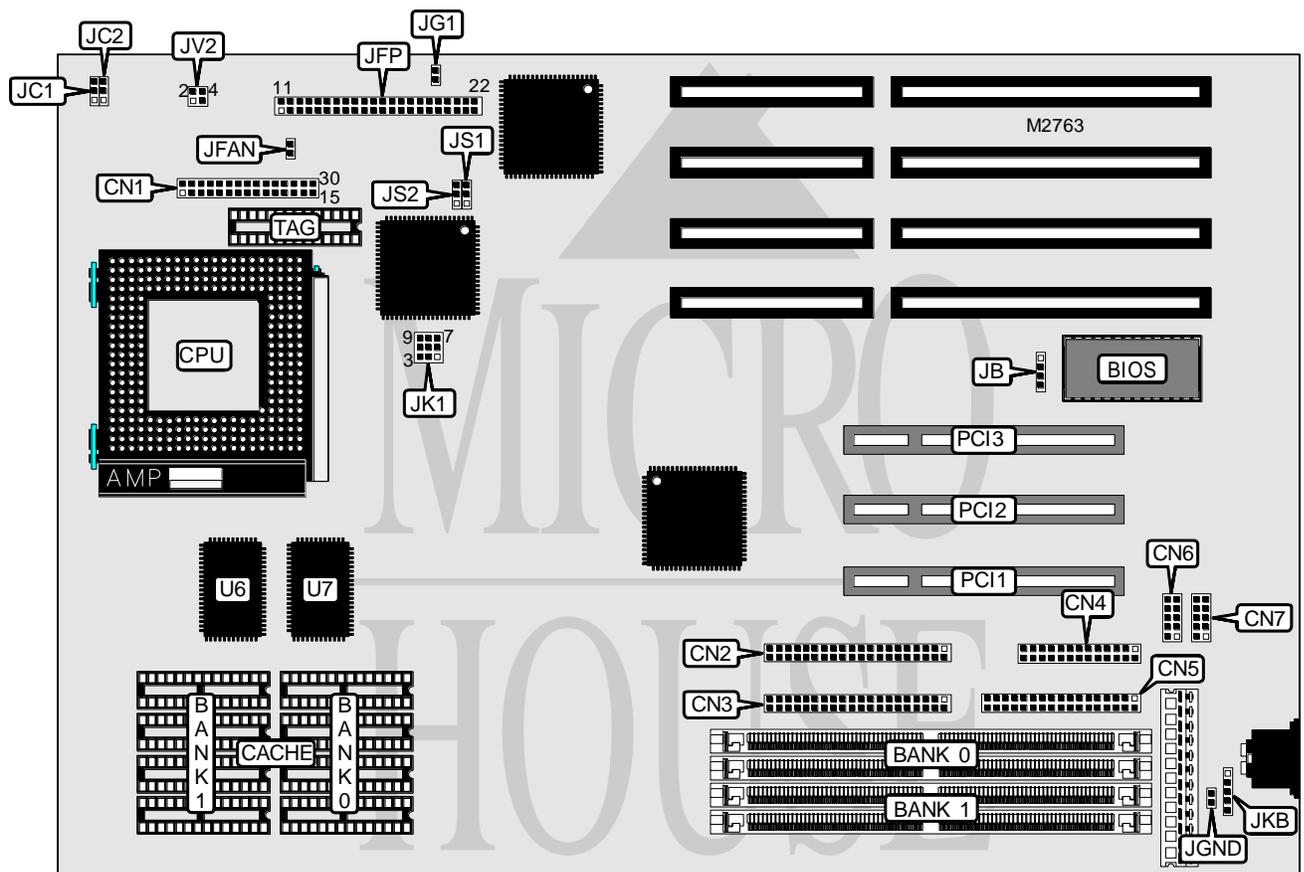


# MICRO-STAR INTERNATIONAL CO., LTD.

## MS - 5 1 1 7

<b>Processor</b>	Pentium
<b>Processor Speed</b>	75/90/100/120/133MHz
<b>Chip Set</b>	VIA
<b>Max. Onboard DRAM</b>	512MB
<b>Cache</b>	256/512/1024KB
<b>BIOS</b>	AMI/Award
<b>Dimensions</b>	280mm x 220mm
<b>I/O Options</b>	Parallel port, serial ports (2), floppy drive interface, IDE interfaces, 32-bit PCI slots(3)
<b>NPU Options</b>	None



CONNECTIONS			
Purpose	Location	Purpose	Location
Voltage Regulator Module	CN1	Power LED & keylock	JFP pins 1 - 5
IDE interface (secondary)	CN2	Speaker	JFP pins 7 & 10
IDE interface (primary)	CN3	Turbo LED	JFP pins 12 & 13
Parallel port	CN4	Turbo switch	JFP pins 15 - 17
Floppy drive interface	CN5	Reset switch	JFP pins 19 & 20
Serial port 1	CN6	IDE interface LED	JFP pins 21 & 22
Serial port 2	CN7	PS/2 mouse port	JKB
External battery	JB	32-bit PCI slots	PCI1 - PCI3
Chassis fan power	JFAN		

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USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
í Factory configured - do not alter	JG1	N/A
í Ground type select keyboard	JGND	Closed
Ground type select case	JGND	Open

DRAM CONFIGURATION		
Size	Bank 0	Bank 1
2MB	(2) 256K x 36	NONE
2MB	NONE	(2) 256K x 36
4MB	(2) 512K x 36	NONE
4MB	NONE	(2) 512K x 36
4MB	(2) 256K x 36	(2) 256K x 36
6MB	(2) 256K x 36	(2) 512K x 36
6MB	(2) 512K x 36	(2) 256K x 36
8MB	(2) 1M x 36	NONE
8MB	NONE	(2) 1M x 36
8MB	(2) 512K x 36	(2) 512K x 36
10MB	(2) 256K x 36	(2) 1M x 36
10MB	(2) 1M x 36	(2) 256K x 36
12MB	(2) 1M x 36	(2) 512K x 36
12MB	(2) 512K x 36	(2) 1M x 36
16MB	(2) 2M x 36	NONE
16MB	NONE	(2) 2M x 36
16MB	(2) 1M x 36	(2) 1M x 36
18MB	(2) 256K x 36	(2) 2M x 36
18MB	(2) 2M x 36	(2) 256K x 36
20MB	(2) 512K x 36	(2) 2M x 36
20MB	(2) 2M x 36	(2) 512K x 36
24MB	(2) 1M x 36	(2) 2M x 36
24MB	(2) 2M x 36	(2) 1M x 36
32MB	(2) 4M x 36	NONE
32MB	NONE	(2) 4M x 36
32MB	(2) 2M x 36	(2) 2M x 36
34MB	(2) 256K x 36	(2) 4M x 36
34MB	(2) 4M x 36	(2) 256K x 36
36MB	(2) 4M x 36	(2) 512K x 36
36MB	(2) 512K x 36	(2) 4M x 36
40MB	(2) 1M x 36	(2) 4M x 36
40MB	(2) 4M x 36	(2) 1M x 36
48MB	(2) 4M x 36	(2) 2M x 36
48MB	(2) 2M x 36	(2) 4M x 36
64MB	(2) 8M x 36	NONE
64MB	NONE	(2) 8M x 36
64MB	(2) 4M x 36	(2) 4M x 36

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DRAM CONFIGURATION (CON'T)		
Size	Bank 0	Bank 1
66MB	(2) 256K x 36	(2) 8M x 36
66MB	(2) 8M x 36	(2) 256K x 36
68MB	(2) 512K x 36	(2) 8M x 36
68MB	(2) 8M x 36	(2) 512K x 36
72MB	(2) 1M x 36	(2) 8M x 36
72MB	(2) 8M x 36	(2) 1M x 36
80MB	(2) 2M x 36	(2) 8M x 36
80MB	(2) 8M x 36	(2) 2M x 36
96MB	(2) 4M x 36	(2) 8M x 36
96MB	(2) 8M x 36	(2) 4M x 36
128MB	(2) 16M x 36	NONE
128MB	NONE	(2) 16M x 36
128MB	(2) 8M x 36	(2) 8M x 36
130MB	(2) 256K x 36	(2) 16M x 36
130MB	(2) 16M x 36	(2) 256K x 36
132MB	(2) 512K x 36	(2) 16M x 36
132MB	(2) 16M x 36	(2) 512K x 36
136MB	(2) 1M x 36	(2) 16M x 36
136MB	(2) 16M x 36	(2) 1M x 36
144MB	(2) 2M x 36	(2) 16M x 36
144MB	(2) 16M x 36	(2) 2M x 36
160MB	(2) 4M x 36	(2) 16M x 36
160MB	(2) 16M x 36	(2) 4M x 36
192MB	(2) 8M x 36	(2) 16M x 36
192MB	(2) 16M x 36	(2) 8M x 36
256MB	(2) 32M x 36	NONE
256MB	NONE	(2) 32M x 36
256MB	(2) 16M x 36	(2) 16M x 36
258MB	(2) 256K x 36	(2) 32M x 36
258MB	(2) 32M x 36	(2) 256K x 36
260MB	(2) 512K x 36	(2) 32M x 36
260MB	(2) 32M x 36	(2) 512K x 36
264MB	(2) 1M x 36	(2) 32M x 36
264MB	(2) 32M x 36	(2) 1M x 36
272MB	(2) 2M x 36	(2) 32M x 36
272MB	(2) 32M x 36	(2) 2M x 36
288MB	(2) 4M x 36	(2) 32M x 36
288MB	(2) 32M x 36	(2) 4M x 36
320MB	(2) 8M x 36	(2) 32M x 36
320MB	(2) 32M x 36	(2) 8M x 36
384MB	(2) 16M x 36	(2) 32M x 36
384MB	(2) 32M x 36	(2) 16M x 36
512MB	(2) 32M x 36	(2) 32M x 36

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**PIPELINE CACHE CONFIGURATION**

Note: If pipeline cache is on this board, it is factory installed at 256KB and is not configurable. The location is U6 & U7 and TAG.

**CACHE CONFIGURATION**

Size	Bank 0	Bank 1	TAG
256KB	(4) 32K x 8	(4) 32K x 8	(1) 32K x 8
512KB	(4) 64K x 8	(4) 64K x 8	(1) 32K x 8
1MB	(4) 128K x 8	(4) 128K x 8	(1) 32K x 8

Note: Depending on board revision, cache will either use this table or the above table. Board will not have both cache configurations.

**CACHE JUMPER CONFIGURATION**

Size	JS1	JS2
256KB	pins 1 & 2 closed	pins 1 & 2 closed
512KB	pins 1 & 2 closed	pins 2 & 3 closed
1MB	pins 2 & 3 closed	pins 2 & 3 closed

**CPU SPEED CONFIGURATION**

Speed	JK1
75MHz	pins 1 & 2, 5 & 6, 7 & 8 closed
80MHz	pins 1 & 2, 4 & 5, 8 & 9 closed
90MHz	pins 2 & 3, 5 & 6, 8 & 9 closed
100MHz	pins 2 & 3, 4 & 5, 7 & 8 closed
120MHz	pins 2 & 3, 5 & 6, 8 & 9 closed
133MHz	pins 2 & 3, 4 & 5, 7 & 8 closed

**CPU VOLTAGE CONFIGURATION**

Voltage	JV2
3.3v	pins 1 & 2, 3 & 4 closed
3.5v	pins 1 & 2 closed

**CPU BUS/CORE FREQUENCY CONFIGURATION**

CPU speed	Ratio	JC1	JC2
75MHz	2/3	pins 1 & 2 closed	pins 1 & 2 closed
90MHz	2/3	pins 1 & 2 closed	pins 1 & 2 closed
100MHz	2/3	pins 1 & 2 closed	pins 1 & 2 closed
120MHz	1/2	pins 2 & 3 closed	pins 1 & 2 closed
133MHz	1/2	pins 2 & 3 closed	pins 1 & 2 closed