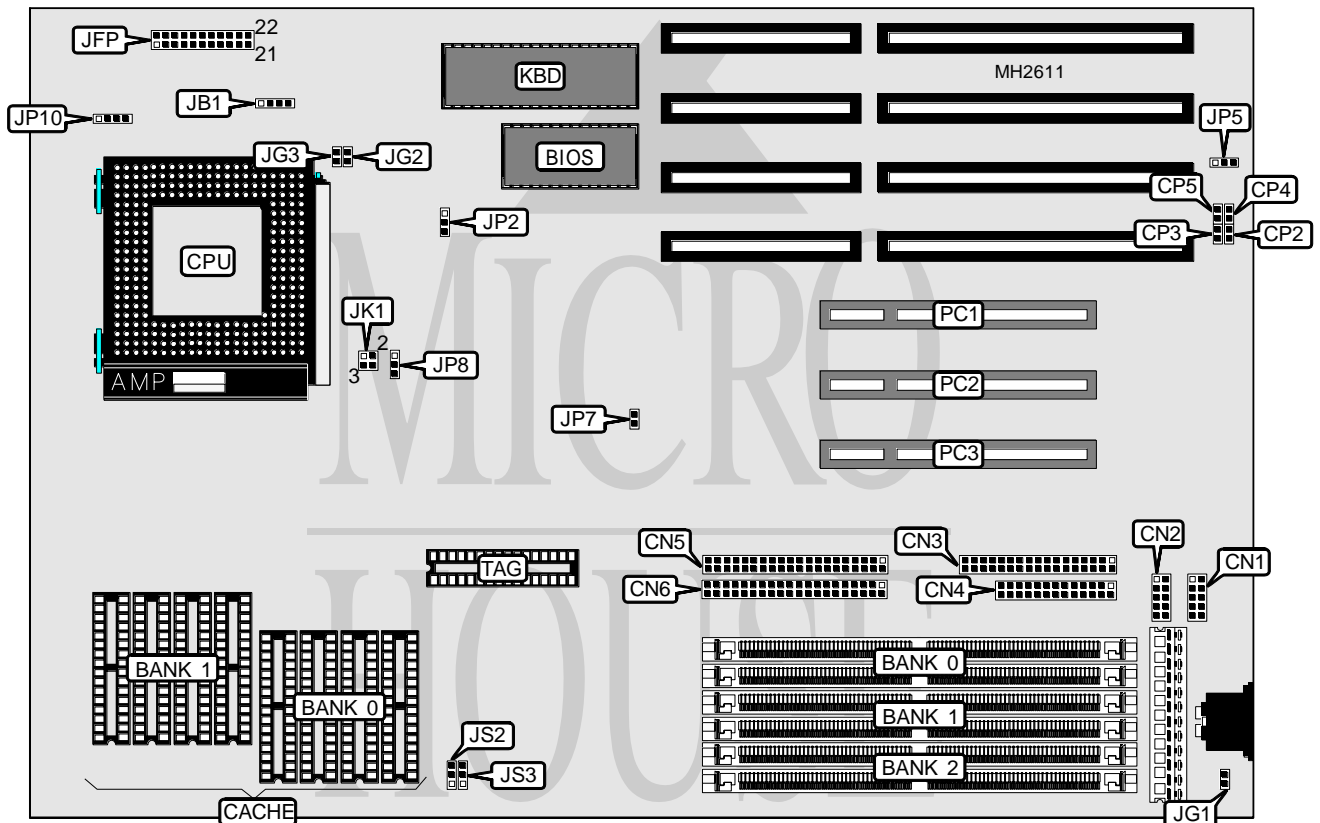


# MICRO-STAR INTERNATIONAL CO., LTD.

## MS - 5 1 1 1

<b>Processor</b>	Pentium
<b>Processor Speed</b>	75/90/100MHz
<b>Chip Set</b>	ALI
<b>Max. Onboard DRAM</b>	192MB
<b>Cache</b>	256/512/1024KB
<b>BIOS</b>	AMI
<b>Dimensions</b>	330mm x 218mm
<b>I/O Options</b>	32-bit PCI slots (3), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, serial ports (2)
<b>NPU Options</b>	None



CONNECTIONS			
Purpose	Location	Purpose	Location
Serial port 1	CN1	Turbo LED	JFP pins 12 - 13
Serial port 2	CN2	Turbo switch	JFP pins 15 - 17
Floppy drive interface	CN3	Reset switch	JFP pins 19 - 20
Parallel port	CN4	IDE interface LED	JFP pins 21 - 22
IDE interface (secondary)	CN5	Green PC connector (monitor)	JG1
IDE interface (primary)	CN6	Green PC LED	JG2
External battery	JB1	Green PC connector	JG3
Power LED & keylock	JFP pins 1 - 5	Chassis fan power	JP10
Speaker	JFP pins 6 - 10	32-bit PCI slots	PC1 - PC3

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USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
í Flash BIOS voltage select 12v	JP2	pins 1 & 2 closed
Flash BIOS voltage select 5v	JP2	pins 2 & 3 closed
í Power good signal detect from board	JP5	pins 2 & 3 closed
Power good signal detect from power supply	JP5	pins 1 & 2 closed
í PCI IDE interface enabled	JP7	Open
PCI IDE interface disabled	JP7	Closed
í Factory configured - do not alter	JP8	N/A

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

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DRAM CONFIGURATION (CON'T)			
Size	Bank 0	Bank 1	Bank 2
40MB	(2) 4M x 36	(2) 512K x 36	(2) 512K x 36
40MB	(2) 4M x 36	(2) 1M x 36	NONE
48MB	(2) 2M x 36	(2) 2M x 36	(2) 2M x 36
48MB	(2) 2M x 36	(2) 4M x 36	NONE
48MB	(2) 4M x 36	(2) 1M x 36	(2) 1M x 36
48MB	(2) 4M x 36	(2) 2M x 36	NONE
64MB	(2) 4M x 36	(2) 4M x 36	NONE
64MB	(2) 8M x 36	NONE	NONE
64MB	(2) 2M x 36	(2) 4M x 36	(2) 2M x 36
64MB	(2) 4M x 36	(2) 2M x 36	(2) 2M x 36
66MB	(2) 256K x 36	(2) 4M x 36	(2) 4M x 36
66MB	(2) 256K x 36	(2) 8M x 36	NONE
68MB	(2) 512K x 36	(2) 4M x 36	(2) 4M x 36
68MB	(2) 512K x 36	(2) 8M x 36	NONE
68MB	(2) 8M x 36	(2) 512K x 36	NONE
72MB	(2) 1M x 36	(2) 4M x 36	(2) 4M x 36
72MB	(2) 1M x 36	(2) 8M x 36	NONE
72MB	(2) 8M x 36	(2) 512K x 36	(2) 512K x 36
72MB	(2) 8M x 36	(2) 1M x 36	NONE
80MB	(2) 8M x 36	(2) 1M x 36	(2) 1M x 36
80MB	(2) 8M x 36	(2) 2M x 36	NONE
96MB	(2) 4M x 36	(2) 4M x 36	(2) 4M x 36
96MB	(2) 4M x 36	(2) 8M x 36	NONE
96MB	(2) 8M x 36	(2) 2M x 36	(2) 2M x 36
96MB	(2) 8M x 36	(2) 4M x 36	NONE
128MB	(2) 8M x 36	(2) 8M x 36	NONE
128MB	(2) 16M x 36	NONE	NONE
128MB	(2) 8M x 36	(2) 4M x 36	(2) 4M x 36
130MB	(2) 256K x 36	(2) 8M x 36	(2) 8M x 36
130MB	(2) 256K x 36	(2) 16M x 36	NONE
132MB	(2) 512K x 36	(2) 8M x 36	(2) 8M x 36
132MB	(2) 512K x 36	(2) 16M x 36	NONE
136MB	(2) 1M x 36	(2) 8M x 36	(2) 8M x 36
136MB	(2) 1M x 36	(2) 16M x 36	NONE
144MB	(2) 2M x 36	(2) 8M x 36	(2) 8M x 36
144MB	(2) 2M x 36	(2) 16M x 36	NONE
160MB	(2) 4M x 36	(2) 8M x 36	(2) 8M x 36
160MB	(2) 4M x 36	(2) 16M x 36	NONE
192MB	(2) 8M x 36	(2) 8M x 36	(2) 8M x 36
192MB	(2) 8M x 36	(2) 16M x 36	NONE

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CACHE CONFIGURATION			
Size	Bank 0	Bank 1	TAG
256KB	(4) 32K x 8	(4) 32K x 8	(1) 8K x 8
512KB	(4) 64K x 8	(4) 64K x 8	(1) 16K x 8
1MB	(4) 128K x 8	(4) 128K x 8	(1) 32K x 8

CACHE JUMPER CONFIGURATION		
Size	JS2	JS3
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	Open
90MHz	pins 1 & 2 closed
100MHz	pins 1 & 2, 3 & 4 closed

DACK/DRQ CONFIGURATION				
Setting	CP2	CP3	CP4	CP5
DACK1/DRQ1	Open	Closed	Open	Closed
DACK3/DRQ3	Closed	Open	Closed	Open