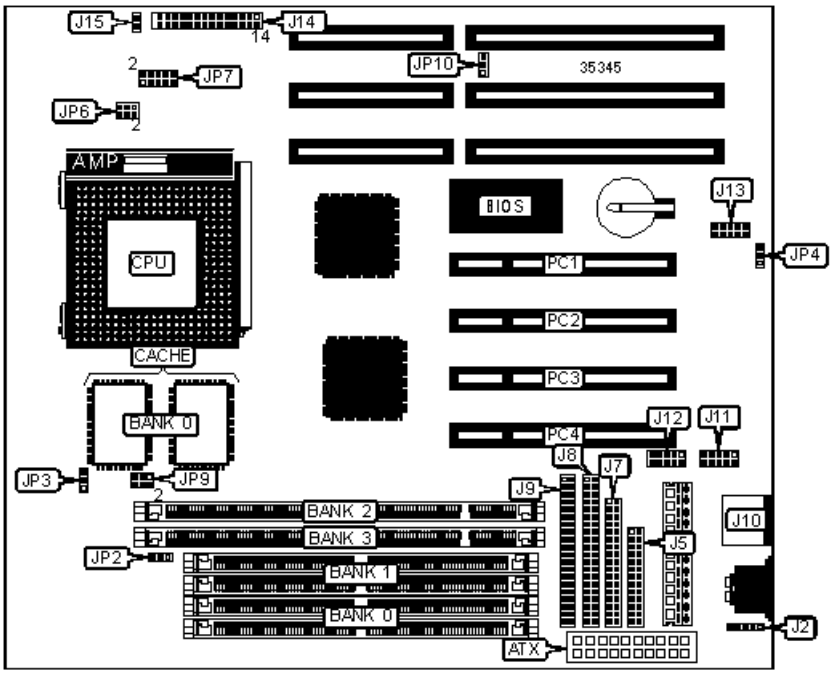
BIOSTAR MICROTECH INTERNATIONAL CORPORATION

M5ATA

Device Type	Mainboard
Processor	CX 6X86/CX 6X86L/CX 686MX/AM K5/AM K6/Pentium/Pentium MMX
Processor Speed	90/100/120/133/150/166/200/233MHz
Chip Set	ALI
Video Chip Set	None
Maximum Onboard Memory	256MB (EDO & SDRAM supported)
Maximum Video Memory	None
Cache	256/512KB
BIOS	Award
Dimensions	225mm x 220mm
I/O Options	32-bit PCI slots (4), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, PS/2 mouse interface, serial ports (2), IR connector, USB connector, ATX power connector
NPU Options	None



CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
ATX power connector	ATX	Speaker	J14/pins 1 - 4
PS/2 mouse interface	J2	Power LED & keylock	J14/pins 5 - 9
Parallel port	J5	Soft off power supply	J14/pins 10 & 11

Floppy drive interface	J7	Reset switch	J14/pins 12 & 13
IDE interface 2	J8	Green PC connector	J14/pins 17 & 18
IDE interface 1	J9	IDE interface LED	J14/pins 20 & 21
PS/2 mouse port	J10	IR connector	J14/pins 22 - 26
Serial port 1	J11	CPU fan power	J15
Serial port 2	J12	Wake on LAN connector	JP10
USB connector	J13	32-bit PCI slots	PC1 – PC4

USER CONFIGURABLE SETTINGS

	Function	Label	Position
»	Factory configured - do not alter	JP2	Unidentified
»	Factory configured - do not alter	JP3	Unidentified
»	CMOS memory normal operation	JP4	Pins 1 & 2 closed
	CMOS memory clear	JP4	Pins 2 & 3 closed
	On board battery disabled	JP4	Open
	External modem ring in select COM1/3	JP15	Pins 1 & 2 closed
	External modem ring in select COM2/4	JP15	Pins 2 & 3 closed

SIMM CONFIGURATION

Size	Bank 0	Bank 1
8MB	(2) 1M x 36	None
16MB	(2) 2M x 36	None
16MB	(2) 1M x 36	(2) 1M x 36
24MB	(2) 2M x 36	(2) 1M x 36
32MB	(2) 4M x 36	None

32MB	(2) 2M x 36	(2) 2M x 36
40MB	(2) 4M x 36	(2) 1M x 36
48MB	(2) 4M x 36	(2) 2M x 36
64MB	(2) 8M x 36	None
64MB	(2) 4M x 36	(2) 4M x 36
72MB	(2) 8M x 36	(2) 1M x 36
80MB	(2) 8M x 36	(2) 2M x 36
96MB	(2) 8M x 36	(2) 4M x 36
128MB	(2) 8M x 36	(2) 8M x 36
128MB	(2) 16M x 36	None

SIMM CONFIGURATION (CON'T)

Size	Bank 0	Bank 1
136MB	(2) 16M x 36	(2) 1M x 36
144MB	(2) 16M x 36	(2) 2M x 36
160MB	(2) 16M x 36	(2) 4M x 36
192MB	(2) 16M x 36	(2) 8M x 36
256MB	(2) 16M x 36	(2) 16M x 36

Note: Board accepts EDO memory.

DIMM CONFIGURATION

Size	Bank 2	Bank 3
8MB	(1) 1M x 64	None
16MB	(1) 2M x 64	None
16MB	(1) 1M x 64	(1) 1M x 64
24MB	(1) 2M x 64	(1) 1M x 64

32MB	(1) 4M x 64	None
32MB	(1) 2M x 64	(1) 2M x 64
40MB	(1) 4M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 2M x 64
64MB	(1) 8M x 64	None
64MB	(1) 4M x 64	(1) 4M x 64
72MB	(1) 8M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 2M x 64
96MB	(1) 8M x 64	(1) 4M x 64
128MB	(1) 16M x 64	None
128MB	(1) 8M x 64	(1) 8M x 64
136MB	(1) 16M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 2M x 64
160MB	(1) 16M x 64	(1) 4M x 64
192MB	(1) 16M x 64	(1) 8M x 64
256MB	(1) 16M x 64	(1) 16M x 64
Note: Board accepts SDRAM memory.		

CACHE CONFIGURATION	
Size	**Bank 0**
256KB	(2) 32K x 32
512KB	(2) 64K x 32

CPU SPEED SELECTION (CX 6X86)				
CPU speed	**Clock speed**	**Multiplier**	**JP6**	**JP9**
150MHz	60MHz	2x	1 & 2	3 & 4, 5 & 6

166MHz	66MHz	2x	1 & 2	1 & 2, 5 & 6
200MHz	75MHz	2x	1 & 2	3 & 4

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX 6X86L)

CPU speed	Clock speed	Multiplier	JP6	JP9
150MHz	60MHz	2x	1 & 2	3 & 4, 5 & 6
166MHz	66MHz	2x	1 & 2	1 & 2, 5 & 6
200MHz	75MHz	2x	1 & 2	3 & 4

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX 6X86MX)

CPU speed	Clock speed	Multiplier	JP6	JP9
150MHz	60MHz	2x	1 & 2	3 & 4, 5 & 6
166MHz	66MHz	2x	1 & 2	1 & 2, 5 & 6
166MHz	60MHz	2.5x	1 & 2, 3 & 4	3 & 4, 5 & 6
200MHz	75MHz	2x	1 & 2	3 & 4
200MHz	66MHz	2.5x	1 & 2, 3 & 4	1 & 2, 5 & 6
200MHz	60MHz	3x	3 & 4	3 & 4, 5 & 6
233MHz	83MHz	2x	1 & 2	1 & 2
233MHz	75MHz	2.5x	1 & 2, 3 & 4	3 & 4
233MHz	66MHz	3x	3 & 4	1 & 2, 5 & 6
233MHz	83MHz	2.5x	1 & 2, 3 & 4	1 & 2
266MHz	60MHz	3.5x	Open	3 & 4, 5 & 6
266MHz	75MHz	3x	3 & 4	3 & 4

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K5)

CPU speed	Clock speed	Multiplier	JP6	JP9
90MHz	60MHz	1.5x	Open	3 & 4, 5 & 6
100MHz	66MHz	1.5x	Open	1 & 2, 5 & 6
120MHz	60MHz	2x	1 & 2	3 & 4, 5 & 6
133MHz	66MHz	2x	1 & 2	1 & 2, 5 & 6
166MHz	66MHz	2.5x	1 & 2, 3 & 4	1 & 2, 5 & 6
200MHz	66MHz	3x	3 & 4	1 & 2, 5 & 6

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K6)

CPU speed	Clock speed	Multiplier	JP6	JP9
166MHz	66MHz	2.5x	1 & 2, 3 & 4	1 & 2, 5 & 6
200MHz	66MHz	3x	3 & 4	1 & 2, 5 & 6
233MHz	66MHz	3.5x	Open	1 & 2, 5 & 6

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (INTEL)

CPU speed	Clock speed	Multiplier	JP6	JP9
90MHz	60MHz	1.5x	Open	3 & 4, 5 & 6
100MHz	66MHz	1.5x	Open	1 & 2, 5 & 6
120MHz	60MHz	2x	1 & 2	3 & 4, 5 & 6
133MHz	66MHz	2x	1 & 2	1 & 2, 5 & 6
150MHz	60MHz	2.5x	1 & 2, 3 & 4	3 & 4, 5 & 6
166MHz	66MHz	2.5x	1 & 2, 3 & 4	1 & 2, 5 & 6
200MHz	66MHz	3x	3 & 4	1 & 2, 5 & 6

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (INTEL MMX)

CPU speed	Clock speed	Multiplier	JP6	JP9
166MHz	66MHz	2.5x	1 & 2, 3 & 4	1 & 2, 5 & 6
200MHz	66MHz	3x	3 & 4	1 & 2, 5 & 6
233MHz	66MHz	3.5x	Open	1 & 2, 5 & 6

Note: Pins designated should be in the closed position.

CPU VOLTAGE SELECTION (SINGLE)

Voltage	JP7
3.5v	Pins 1 & 2, 3 & 4, 5 & 6 closed

CPU VOLTAGE SELECTION (DUAL)

Voltage	V core	JP7
3.3v	2.8v	Pins 1 & 2 closed
3.3v	2.9v	Pins 3 & 4 closed
3.3v	3.2v	Pins 1 & 2,5 & 6 closed