M TECHNOLOGY, INC.

M549

Device Type	Mainboard
Processor	CX 6X86/IBM 6X86/CX 6X86L/IBM 6X86L/CX 686MX/AM K5/AM K6/Pentium/Pentium MMX
Processor Speed	75/90/100/120/133/150/166/180/200/233/266MHz
Chip Set	Super TX
Video Chip Set	None
Maximum Onboard Memory	256MB (EDO & SDRAM supported)
Maximum Video Memory	None
Cache	512KB
BIOS	Award
Dimensions	230mm x 220mm
I/O Options	32-bit PCI slots (3), green PC connector, floppy drive interface, IDE interfaces (2), parallel port, PS/2 mouse interface, serial ports (2), IR connector, USB connector
NPU Options	None



CONNECTIONS							
Purpose	Location	Purpose	Location				
PS/2 mouse interface	CN1	Power LED & keylock	J17				
Floppy drive interface	CN3	Speaker	J18				
Serial port 1	CN4	Reset switch	J19				
IR connector	CN5	Green PC connector	J23				
Serial port 2	CN6	IDE interface LED	J24				
Parallel port	CN7	Green PC ground pin connector	JP25				
IDE interface 2	CN8	32-bit PCI slots	PC1 – PC3				
IDE interface 1	CN9	USB connector	USB				

	USER CONFIGURABLE SETTINGS						
	Function	Label	Position				
»	CMOS memory normal operation	JP5	Pins 1 & 2 closed				
	CMOS memory clear	JP5	Pins 2 & 3 closed				
»	PCI bus select synchronous	JP16	Pins 1 & 2 closed				
	PCI bus select asynchronous	JP16	Pins 2 & 3 closed				

	SIMM CONFIGURATION	
Size	Bank 0	Bank 1
8MB	(2) 1M × 36	None
16MB	(2) 2M x 36	None
16MB	(2) 1M × 36	(2) 1M × 36
24MB	(2) 2M x 36	(2) 1M × 36
32MB	(2) 4M x 36	None
32MB	(2) 2M x 36	(2) 2M x 36
40MB	(2) 4M x 36	(2) 1M × 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			
8MB	(1) 1M × 64			
16MB	(1) 2M x 64			
32MB	(1) 4M x 64			
Note: Board accepts SDRAM memory. Banks 0 & 2 cannot be filled at the same time.				

CACHE CONFIGURATION				
Size	TAG			
512KB	(2) 64K x 32	Unidentified		

CPU SPEED SELECTION (CX 6X86)							
CPU speed	Clock speed	Multiplier	JP10	JP11	JP12	JP13	JP14

120MHz	50MHz	2x	2 & 3	2&3	2&3	Closed	Open
133MHz	55MHz	2x	1&2	2&3	2&3	Closed	Open
150MHz	60MHz	2x	2&3	2&3	1&2	Closed	Open
166MHz	66MHz	2x	2&3	1&2	2&3	Closed	Open
200MHz	75MHz	2x	1&2	2&3	1&2	Closed	Open
Note: Pins designated should be in the closed position.							

CPU SPEED SELECTION (IBM 6X86)							
CPU speed	Clock speed	Multiplier	JP10	JP11	JP12	JP13	JP14
120MHz	50MHz	2x	2&3	2&3	2&3	Closed	Open
133MHz	55MHz	2x	1&2	2&3	2&3	Closed	Open
150MHz	60MHz	2x	2&3	2&3	1&2	Closed	Open
166MHz	66MHz	2x	2&3	1&2	2&3	Closed	Open
200MHz	75MHz	2x	1&2	2&3	1&2	Closed	Open
Note: Pins designated should be in the closed position.							

CPU SPEED SELECTION (CX 6X86L)								
CPU speed	Clock speed	Multiplier	JP10	JP11	JP12	JP13	JP14	
120MHz	50MHz	2x	2&3	2&3	2&3	Closed	Open	
133MHz	55MHz	2x	1&2	2&3	2&3	Closed	Open	
150MHz	60MHz	2x	2&3	2&3	1&2	Closed	Open	
166MHz	66MHz	2x	2&3	1&2	2&3	Closed	Open	
200MHz	75MHz	2x	1&2	2&3	1 & 2	Closed	Open	
Note: Pins desig	Note: Pins designated should be in the closed position.							

CPU SPEED SELECTION (IBM 6X86L)							
CPU speed Clock speed Multiplier JP10 JP11 JP12 JP13 JP14							
120MHz	50MHz	2x	2&3	2&3	2&3	Closed	Open
133MHz	55MHz	2x	1&2	2&3	2&3	Closed	Open

150MHz	60MHz	2x	2&3	2&3	1&2	Closed	Open
166MHz	66MHz	2x	2&3	1&2	2&3	Closed	Open
200MHz	75MHz	2x	1&2	2&3	1&2	Closed	Open
Note: Pins designated should be in the closed position.							

CPU SPEED SELECTION (CX 6X86MX)							
CPU speed	Clock speed	Multiplier	JP10	JP11	JP12	JP13	JP14
166MHz	60MHz	2.5x	2&3	2&3	1&2	Closed	Closed
200MHz	66MHz	2.5x	2&3	1&2	2&3	Closed	Closed
233MHz	75MHz	2.5x	1&2	2&3	1&2	Closed	Closed
233MHz	66MHz	Зх	2&3	1&2	2&3	Open	Closed
266MHz 75MHz 3x 1 & 2 2 & 3 1 & 2 Open Closed							
Note: Pins desig	Note: Pins designated should be in the closed position.						

		CPU SPEE	D SELECTIO	N (AM K5)			
CPU speed	Clock speed	Multiplier	JP10	JP11	JP12	JP13	JP14
75MHz	50MHz	1.5x	2&3	2&3	2&3	Open	Open
90MHz	60MHz	1.5x	2&3	2&3	1&2	Open	Open
100MHz	66MHz	1.5x	2&3	1&2	2 & 3	Open	Open
120MHz	60MHz	1.5x	2&3	2&3	1&2	Open	Open
133MHz	66MHz	1.5x	2&3	1&2	2 & 3	Open	Open
150MHz	60MHz	2x	1&2	2&3	2 & 3	Closed	Open
166MHz	66MHz	2.5x	2&3	1&2	2&3	Closed	Closed
Noto: Dine dosic	Note: Disc designated should be in the elected position						

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K6)							
CPU speed Clock speed Multiplier JP10 JP11 JP12 JP13 JP14							JP14
150MHz	60MHz	2x	1&2	2&3	2&3	Closed	Open
166MHz	66MHz	2.5x	2&3	1&2	2&3	Closed	Closed

233MHz	66MHz	3.5x	2&3	1&2	2&3	Open	Open

Note: Pins designated should be in the closed position.

		CPU SPEE	D SELECTIC	N (INTEL)			
CPU speed	Clock speed	Multiplier	JP10	JP11	JP12	JP13	JP14
75MHz	50MHz	1.5x	2&3	2 & 3	2&3	Open	Open
90MHz	60MHz	1.5x	2&3	2&3	1&2	Open	Open
100MHz	66MHz	1.5x	2&3	1&2	2&3	Open	Open
100MHz	50MHz	2x	2&3	2 & 3	2&3	Closed	Open
120MHz	60MHz	2x	2&3	2&3	1&2	Closed	Open
133MHz	66MHz	2x	2&3	1&2	2&3	Closed	Open
150MHz	60MHz	2.5x	2&3	2&3	1&2	Closed	Closed
166MHz	66MHz	2.5x	2&3	1&2	2&3	Closed	Closed
180MHz	60MHz	Зx	2&3	2&3	1&2	Open	Closed
200MHz	66MHz	Зx	2&3	1&2	2&3	Open	Closed
Note: Pins desig	Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (INTEL MMX)							
CPU speed	Clock speed	Multiplier	JP10	JP11	JP12	JP13	JP14
150MHz	60MHz	2.5x	2&3	2&3	1&2	Closed	Closed
166MHz	66MHz	2.5x	2&3	1&2	2&3	Closed	Closed
180MHz	60MHz	Зx	2&3	2&3	1&2	Open	Closed
200MHz	66MHz	Зх	2&3	1&2	2&3	Open	Closed
233MHz	66MHz	3.5x	2&3	1&2	2&3	Open	Open
266MHz	66MHz	4x	2&3	1&2	2&3	Closed	Open

Note: Pins designated should be in the closed position. For the 266MHz CPU, JP15 must be closed.

CPU TYPE SELECTION					
Type J100					

AMD	Open
Cyrix	Closed
IBM	Closed
Intel	Open

CPU VOLTAGE SELECTION (SINGLE)						
Voltage	JP30	JP31	JP32			
3.3v	Open	1 & 2, 3 & 4	1 & 2, 3 & 4, 7 & 8			
í 3.5v	Open	1 & 2, 3 & 4	1 & 2, 3 & 4, 5 & 6, 7 & 8			
Note: Pins designated sho	uld be in the closed position.					

	CPU VOLTAGE SELECTION (DUAL)						
V core	JP30	JP31	JP32				
2.0v	1 & 2, 3 & 4	Open	Open				
2.1v	1 & 2, 3 & 4	Open	7 & 8				
2.2v	1 & 2, 3 & 4	Open	5 & 6				
2.3v	1 & 2, 3 & 4	Open	5 & 6, 7 & 8				
2.4v	1 & 2, 3 & 4	Open	3 & 4				
2.5v	1 & 2, 3 & 4	Open	3 & 4, 7 & 8				
2.6v	1 & 2, 3 & 4	Open	3 & 4, 5 & 6, 7 & 8				
2.7v	1 & 2, 3 & 4	Open	3 & 4, 5 & 6, 7 & 8				
2.8v	1 & 2, 3 & 4	Open	1 & 2				
2.9v	1 & 2, 3 & 4	Open	1 & 2, & 7 & 8				
3.0v	1 & 2, 3 & 4	Open	1 & 2, 5 & 6				
3.1v	1 & 2, 3 & 4	Open	1 & 2, 5 & 6, 7 & 8				
3.2v	1 & 2, 3 & 4	Open	1 & 2, 3 & 4				
3.3v	1 & 2, 3 & 4	Open	1 & 2, 3 & 4, 7 & 8				
3.4v	1 & 2, 3 & 4	Open	1 & 2, 3 & 4, 5 & 6				
3.5v	1 & 2, 3 & 4	Open	1 & 2, 3 & 4, 5 & 6, 7 & 8				

Note: Pins designated should be in the closed position.