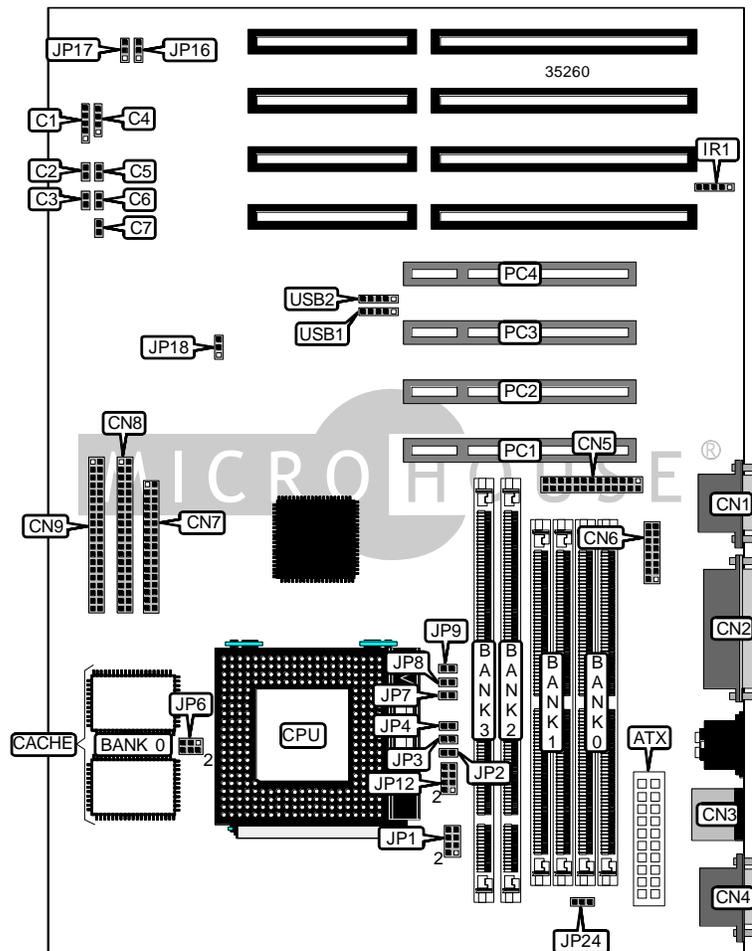


M TECHNOLOGY, INC.

R558 MUSTANG-ULTRA

Device Type	Mainboard
Processor	CX 6X86/IBM 6X86/CX 6X86L/IBM 6X86L/CX 686MX/IBM 6X86MX/ AM K5/AM K6/Pentium/Pentium MMX
Processor Speed	90/100/120/133/150/166/180/200/233/266MHz
Chip Set	SIS
Video Chip Set	Unidentified
Maximum Onboard Memory	384MB (EDO & SDRAM supported) Unified Memory Architecture (UMA)
Cache	512KB
BIOS	Award
Dimensions	304mm x 220mm
I/O Options	32-bit PCI slots (4), floppy drive interface, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), VGA feature connector, VGA interface, IR connector, USB connectors (2), ATX power connector
NPU Options	None



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CONNECTIONS			
Purpose	Location	Purpose	Location
ATX power connector	ATX	Serial port 1	CN4
Power LED & keylock	C1	VGA feature connector	CN5
Turbo switch	C2	VGA interface	CN6
Reset switch	C3	Floppy drive interface	CN7
Speaker	C4	IDE interface 1	CN8
Turbo LED	C5	IDE interface 2	CN9
IDE interface LED	C6	IR connector	IR1
Soft off power supply	C7	32-bit PCI slots	PC1 – PC4
Serial port 2	CN1	USB connector 1	USB1
Parallel port	CN2	USB connector 2	USB2
PS/2 mouse port	CN3		

USER CONFIGURABLE SETTINGS		
Function	Label	Position
í Factory configured - do not alter	JP2	Open
í CMOS memory normal operation	JP18	Pins 1 & 2 closed
CMOS memory clear	JP18	Pins 2 & 3 closed
On board video enabled	JP24	Pins 2 & 3 closed
On board video disabled	JP24	Pins 1 & 2 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

Note: Board accepts EDO memory.

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DIMM CONFIGURATION		
Size	Bank 0	Bank 1
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) 8M x 64	(1) 8M x 64

Note: Board accepts EDO & SDRAM memory.

DIMM VOLTAGE CONFIGURATION	
Voltage	JP1
3.3v	Pins 5 & 6, 7 & 8 closed
5v	Pins 1 & 2, 3 & 4 closed

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

CPU SPEED SELECTION (CX 6X86)							
CPU speed	Clock speed	Multiplier	JP3	JP4	JP7	JP8	JP9
133MHz	55MHz	2x	Open	Closed	Open	Closed	Closed
150MHz	60MHz	2x	Open	Closed	Open	Open	Closed
166MHz	66MHz	2x	Open	Closed	Open	Open	Open
200MHz	75MHz	2x	Open	Closed	Closed	Closed	Open

CPU SPEED SELECTION (IBM 6X86)							
CPU speed	Clock speed	Multiplier	JP3	JP4	JP7	JP8	JP9
133MHz	55MHz	2x	Open	Closed	Open	Closed	Closed
150MHz	60MHz	2x	Open	Closed	Open	Open	Closed
166MHz	66MHz	2x	Open	Closed	Open	Open	Open
200MHz	75MHz	2x	Open	Closed	Closed	Closed	Open

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CPU SPEED SELECTION (CX 6X86L)							
CPU speed	Clock speed	Multiplier	JP3	JP4	JP7	JP8	JP9
133MHz	55MHz	2x	Open	Closed	Open	Closed	Closed
150MHz	60MHz	2x	Open	Closed	Open	Open	Closed
166MHz	66MHz	2x	Open	Closed	Open	Open	Open
200MHz	75MHz	2x	Open	Closed	Closed	Closed	Open

CPU SPEED SELECTION (IBM 6X86L)							
CPU speed	Clock speed	Multiplier	JP3	JP4	JP7	JP8	JP9
133MHz	55MHz	2x	Open	Closed	Open	Closed	Closed
150MHz	60MHz	2x	Open	Closed	Open	Open	Closed
166MHz	66MHz	2x	Open	Closed	Open	Open	Open
200MHz	75MHz	2x	Open	Closed	Closed	Closed	Open

CPU SPEED SELECTION (CX 6X86MX)							
CPU speed	Clock speed	Multiplier	JP3	JP4	JP7	JP8	JP9
166MHz	60MHz	2.5x	Closed	Closed	Open	Open	Closed
200MHz	66MHz	2.5x	Closed	Closed	Open	Open	Open
233MHz	66MHz	3x	Closed	Open	Open	Open	Open
233MHz	75MHz	2.5x	Closed	Closed	Closed	Closed	Open
266MHz	66MHz	3.5x	Open	Open	Open	Open	Open
266MHz	75MHz	3x	Closed	Open	Closed	Closed	Open

CPU SPEED SELECTION (IBM 6X86MX)							
CPU speed	Clock speed	Multiplier	JP3	JP4	JP7	JP8	JP9
166MHz	60MHz	2.5x	Closed	Closed	Open	Open	Closed
200MHz	66MHz	2.5x	Closed	Closed	Open	Open	Open
233MHz	66MHz	3x	Closed	Open	Open	Open	Open
233MHz	75MHz	2.5x	Closed	Closed	Closed	Closed	Open
266MHz	66MHz	3.5x	Open	Open	Open	Open	Open
266MHz	75MHz	3x	Closed	Open	Closed	Closed	Open

CPU SPEED SELECTION (AM K5)							
CPU speed	Clock speed	Multiplier	JP3	JP4	JP7	JP8	JP9
90MHz	60MHz	1.5x	Open	Open	Open	Open	Closed
100MHz	66MHz	1.5x	Open	Open	Open	Open	Open
166MHz	66MHz	2.5x	Closed	Closed	Open	Open	Open

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CPU SPEED SELECTION (AK K6)							
CPU speed	Clock speed	Multiplier	JP3	JP4	JP7	JP8	JP9
166MHz	66MHz	2.5x	Closed	Closed	Open	Open	Open
200MHz	66MHz	3x	Closed	Open	Open	Open	Open
233MHz	66MHz	3.5x	Open	Open	Open	Open	Open

CPU SPEED SELECTION (INTEL)							
CPU speed	Clock speed	Multiplier	JP3	JP4	JP7	JP8	JP9
90MHz	60MHz	1.5x	Open	Open	Open	Open	Closed
100MHz	66MHz	1.5x	Open	Open	Open	Open	Open
120MHz	60MHz	2x	Open	Closed	Open	Open	Closed
133MHz	66MHz	2x	Open	Closed	Open	Open	Open
150MHz	60MHz	2.5x	Closed	Closed	Open	Open	Closed
166MHz	66MHz	2.5x	Closed	Closed	Open	Open	Open
180MHz	60MHz	3x	Closed	Open	Open	Open	Closed
200MHz	66MHz	3x	Closed	Open	Open	Open	Open

CPU SPEED SELECTION (INTEL MMX)							
CPU speed	Clock speed	Multiplier	JP3	JP4	JP7	JP8	JP9
166MHz	66MHz	2.5x	Closed	Closed	Open	Open	Open
200MHz	66MHz	3x	Closed	Open	Open	Open	Open
233MHz	66MHz	3.5x	Open	Open	Open	Open	Open

CPU VOLTAGE SELECTION (SINGLE)		
Voltage	JP6	JP12
3.4v	Pins 1 & 2, 3 & 4, 5 & 6 closed	Pins 3 & 4, 5 & 6, 7 & 8 closed
3.5v	Pins 1 & 2, 3 & 4, 5 & 6 closed	Pins 1 & 2, 3 & 4, 5 & 6, 7 & 8 closed

CPU VOLTAGE SELECTION (DUAL)			
Voltage	V core	JP6	JP12
3.4v	2.1v	Open	Pins 1 & 2 closed
3.4v	2.8v	Open	Pins 7 & 8 closed
3.4v	2.9v	Open	Pins 1 & 2, 7 & 8 closed
3.4v	3.2v	Open	Pins 5 & 6, 7 & 8 closed

BIOS SELECTION		
Type	JP16	JP17
1M/12v	Pins 2 & 3 closed	Pins 2 & 3 closed
1M/5v	Pins 1 & 2 closed	Pins 1 & 2 closed