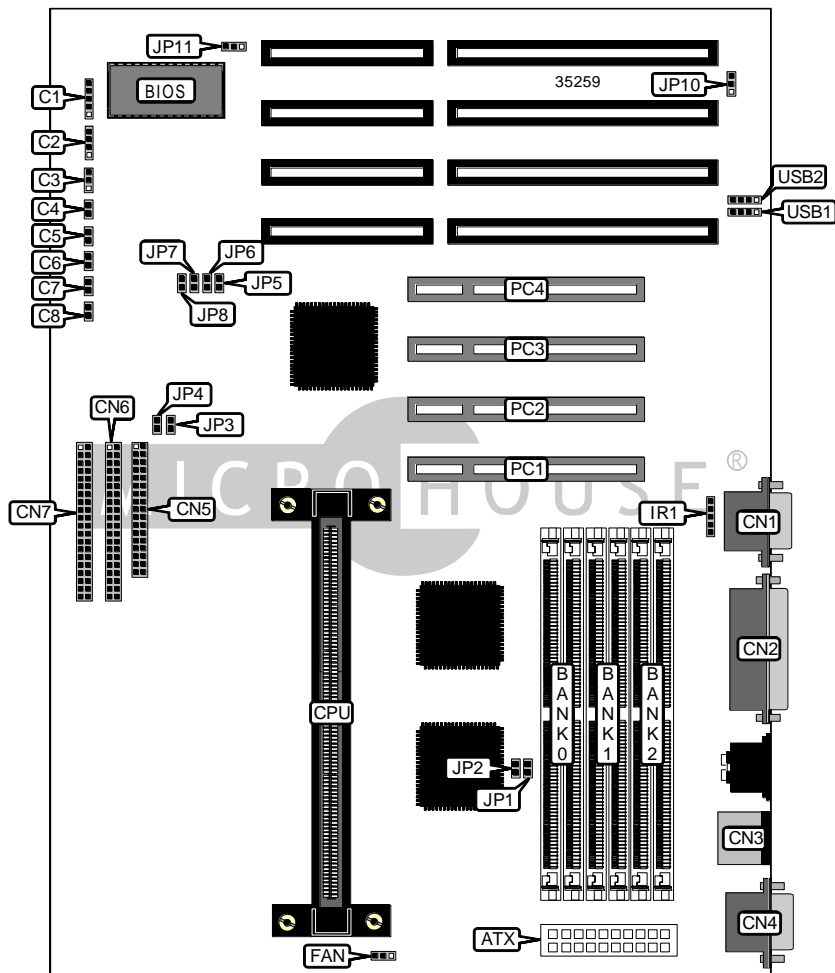


M TECHNOLOGY, INC.

R653 PHANTOM

Device Type	Mainboard
Processor	Pentium II
Processor Speed	233/266MHz
Chip Set	Intel
Video Chip Set	None
Maximum Onboard Memory	384MB (EDO supported)
Maximum Video Memory	None
Cache	256/512KB (located on Pentium II CPU)
BIOS	Award
Dimensions	304mm x 244mm
I/O Options	32-bit PCI slots (4), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), IR connector, USB connectors (2), ATX power connector
NPU Options	None



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CONNECTIONS			
Purpose	Location	Purpose	Location
ATX power connector	ATX	PS/2 mouse port	CN3
Power LED & keylock	C1	Serial port 1	CN4
Speaker	C2	Floppy drive interface	CN5
Turbo switch	C3	IDE interface 1	CN6
Turbo LED	C4	IDE interface 2	CN7
Reset switch	C5	CPU fan power	FAN
IDE interface LED	C6	IR connector	IR1
Green PC connector	C7	32-bit PCI slots	PC1 – PC4
Soft off power supply	C8	USB connector 1	USB1
Serial port 2	CN1	USB connector 2	USB2
Parallel port	CN2		

USER CONFIGURABLE SETTINGS		
Function	Label	Position
CMOS memory normal operation	JP10	Pins 1 & 2 closed
CMOS memory clear	JP10	Pins 2 & 3 closed
Flash BIOS voltage select 5v	JP11	Pins 1 & 2 closed
Flash BIOS voltage select 12v	JP11	Pins 2 & 3 closed

SIMM CONFIGURATION			
Size	Bank 0	Bank 1	Bank 2
8MB	(2) 1M x 36	None	None
16MB	(2) 2M x 36	None	None
16MB	(2) 1M x 36	(2) 1M x 36	None
24MB	(2) 2M x 36	(2) 1M x 36	None
24MB	(2) 1M x 36	(2) 1M x 36	(2) 1M x 36
32MB	(2) 4M x 36	None	None
32MB	(2) 2M x 36	(2) 1M x 36	(2) 1M x 36
32MB	(2) 2M x 36	(2) 2M x 36	None
40MB	(2) 4M x 36	(2) 1M x 36	None
40MB	(2) 2M x 36	(2) 2M x 36	(2) 1M x 36
48MB	(2) 4M x 36	(2) 1M x 36	(2) 1M x 36
48MB	(2) 4M x 36	(2) 2M x 36	None
48MB	(2) 2M x 36	(2) 2M x 36	(2) 2M x 36
56MB	(2) 4M x 36	(2) 2M x 36	(2) 1M x 36
64MB	(2) 8M x 36	None	None

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SIMM CONFIGURATION (CON'T)			
Size	Bank 0	Bank 1	Bank 2
64MB	(2) 4M x 36	(2) 2M x 36	(2) 2M x 36
64MB	(2) 4M x 36	(2) 4M x 36	None
72MB	(2) 8M x 36	(2) 1M x 36	None
72MB	(2) 4M x 36	(2) 4M x 36	(2) 1M x 36
80MB	(2) 8M x 36	(2) 1M x 36	(2) 1M x 36
80MB	(2) 8M x 36	(2) 2M x 36	None
80MB	(2) 4M x 36	(2) 4M x 36	(2) 2M x 36
88MB	(2) 8M x 36	(2) 2M x 36	(2) 1M x 36
96MB	(2) 8M x 36	(2) 2M x 36	(2) 2M x 36
96MB	(2) 8M x 36	(2) 4M x 36	None
96MB	(2) 4M x 36	(2) 4M x 36	(2) 4M x 36
104MB	(2) 8M x 36	(2) 4M x 36	(2) 1M x 36
112MB	(2) 8M x 36	(2) 4M x 36	(2) 2M x 36
128MB	(2) 16M x 36	None	None
128MB	(2) 8M x 36	(2) 4M x 36	(2) 4M x 36
128MB	(2) 8M x 36	(2) 8M x 36	None
136MB	(2) 16M x 36	(2) 1M x 36	None
136MB	(2) 8M x 36	(2) 8M x 36	(2) 1M x 36
144MB	(2) 16M x 36	(2) 1M x 36	(2) 1M x 36
144MB	(2) 16M x 36	(2) 2M x 36	None
144MB	(2) 8M x 36	(2) 8M x 36	(2) 2M x 36
152MB	(2) 16M x 36	(2) 2M x 36	(2) 1M x 36
160MB	(2) 16M x 36	(2) 2M x 36	(2) 2M x 36
160MB	(2) 16M x 36	(2) 4M x 36	None
160MB	(2) 8M x 36	(2) 8M x 36	(2) 4M x 36
168MB	(2) 16M x 36	(2) 4M x 36	(2) 1M x 36
176MB	(2) 16M x 36	(2) 4M x 36	(2) 2M x 36
192MB	(2) 16M x 36	(2) 4M x 36	(2) 4M x 36
192MB	(2) 16M x 36	(2) 8M x 36	None
192MB	(2) 8M x 36	(2) 8M x 36	(2) 8M x 36
200MB	(2) 16M x 36	(2) 8M x 36	(2) 1M x 36
208MB	(2) 16M x 36	(2) 8M x 36	(2) 2M x 36
224MB	(2) 16M x 36	(2) 8M x 36	(2) 4M x 36
256MB	(2) 16M x 36	(2) 8M x 36	(2) 8M x 36
384MB	(2) 16M x 36	(2) 16M x 36	(2) 16M x 36

Note: Board accepts EDO memory.

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CACHE CONFIGURATION						
Note: 256KB/512KB cache is located on the Pentium II CPU.						

CPU SPEED SELECTION						
CPU speed	Clock speed	Multiplier	JP1	JP2	JP3	JP4
233MHz	66MHz	3.5x	Open	Closed	Closed	Open
266MHz	66MHz	4x	Open	Closed	Closed	Open

CPU SPEED SELECTION (CON'T)						
CPU speed	Clock speed	Multiplier	JP5	JP6	JP7	JP8
233MHz	66MHz	3.5x	Open	Open	Closed	Closed
266MHz	66MHz	4x	Closed	Closed	Open	Closed