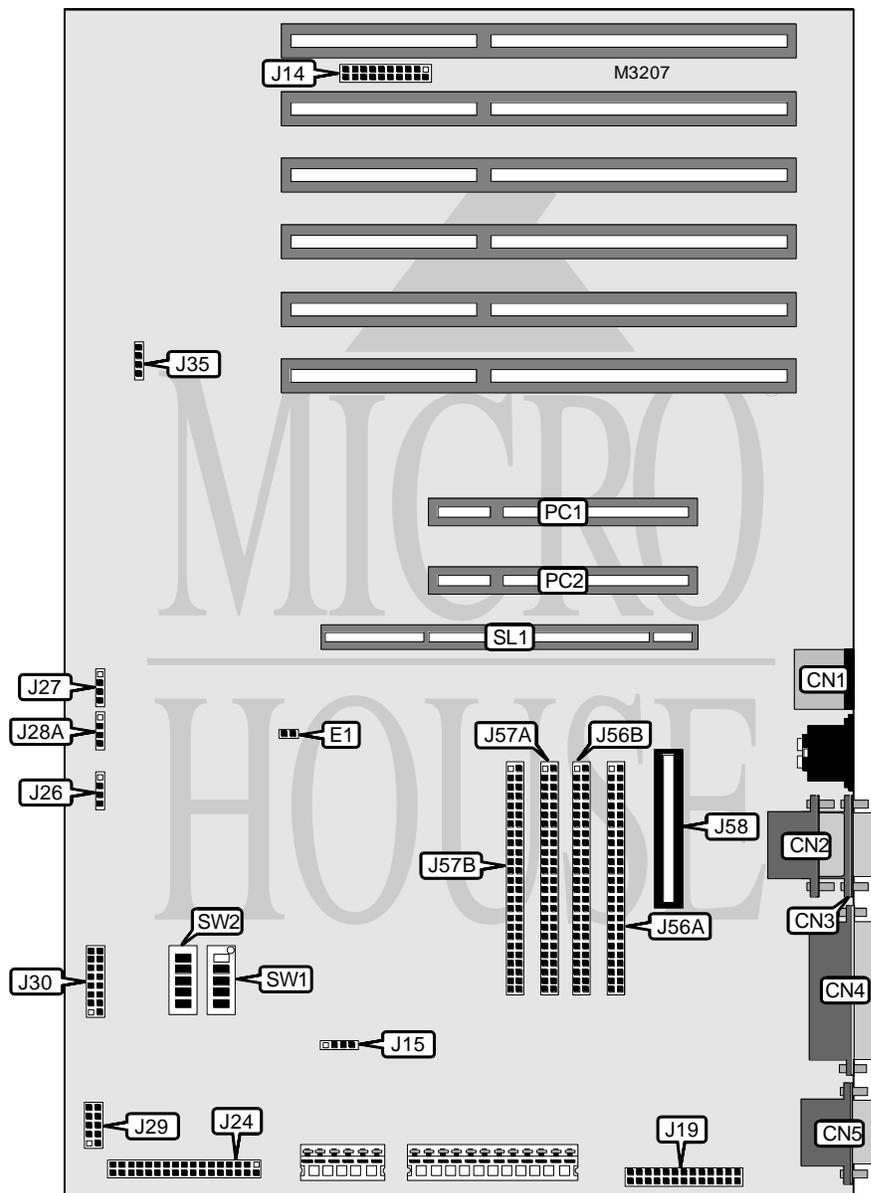


# AST RESEARCH, INC. MANHATTAN P PENTIUM (202620-001, 002, 011, 012)

<b>Processor</b>	Pentium
<b>Processor Speed</b>	90/100/133MHz
<b>Chip Set</b>	Unidentified
<b>Max. Onboard DRAM</b>	256MB
<b>Cache</b>	256/512KB
<b>BIOS</b>	Unidentified
<b>Dimensions</b>	330mm x 218mm
<b>I/O Options</b>	32-bit PCI slots (2), CPU slot, floppy drive interface, SCSI interfaces (4), parallel port, PS/2 mouse port, serial ports (2), 8514 video pass through connector, VGA port
<b>NPU Options</b>	None



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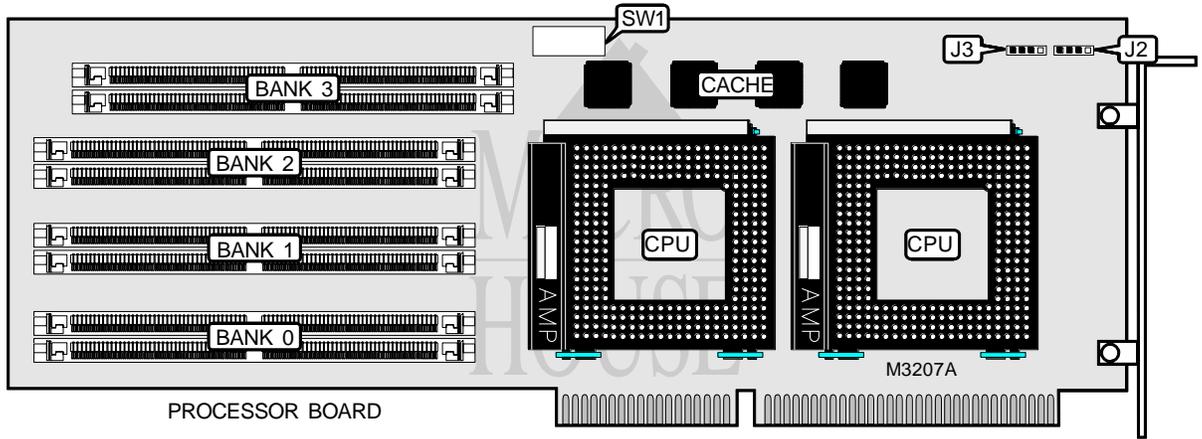
CONNECTIONS			
Purpose	Location	Purpose	Location
PS/2 mouse port	CN1	Chassis fan power	J28A
Serial port	CN2	Front panel connector	J29
Serial port	CN3	SCSI interface LED	J35
Parallel port	CN4	Internal SCSI interface channel 1	J56A
VGA port	CN5	External SCSI interface channel 1	J56B
System management interface	J14	Internal SCSI interface channel 2	J57A
Remote power connector	J15	External SCSI interface channel 2	J57B
8514 video pass through connector	J19	XP interface board connector	J58
Floppy drive interface	J24	32-bit PCI slots	PC1 & PC2
External battery	J26	CPU slot	SL1
Speaker	J27		

USER CONFIGURABLE SETTINGS		
Function	Jumper/Switch	Position
í CMOS memory normal operation	E1	Open
CMOS memory clear	E1	Closed
í Factory configured - do not alter	J30	N/A
í Flash BIOS normal operation	SW1/1	Off
Flash BIOS force update at boot	SW1/1	On
í Password enabled	SW1/2	Off
Password disabled	SW1/2	On
í Monitor type select color	SW1/3	Off
Monitor type select monochrome	SW1/3	On
í EISA CMOS memory normal operation	SW1/4	Off
EISA CMOS memory clear	SW1/4	On
í Setup access enabled	SW1/5	Off
Setup access disabled	SW1/5	On
í Factory configured - do not alter	SW2	N/A

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CONNECTIONS			
Purpose	Location	Purpose	Location
Chassis fan power	J2	Chassis fan power	J3

USER CONFIGURABLE SETTINGS			
Function	Switch	Position	
í Factory configured - do not alter	SW1	N/A	

DRAM CONFIGURATION				
Size	Bank 0	Bank 1	Bank 2	Bank 3
16MB	(2) 2M x 36	NONE	NONE	NONE
32MB	(2) 2M x 36	(2) 2M x 36	NONE	NONE
32MB	(2) 4M x 36	NONE	NONE	NONE
48MB	(2) 4M x 36	(2) 2M x 36	NONE	NONE
64MB	(2) 2M x 36	(2) 2M x 36	(2) 4M x 36	NONE
64MB	(2) 8M x 36	NONE	NONE	NONE
80MB	(2) 2M x 36	(2) 4M x 36	(2) 4M x 36	NONE
80MB	(2) 8M x 36	(2) 2M x 36	NONE	NONE
80MB	(2) 4M x 36	(2) 2M x 36	(2) 4M x 36	NONE
96MB	(2) 2M x 36	(2) 2M x 36	(2) 4M x 36	(2) 4M x 36
96MB	(2) 2M x 36	(2) 2M x 36	(2) 8M x 36	NONE
96MB	(2) 4M x 36	(2) 4M x 36	(2) 4M x 36	NONE
112MB	(2) 2M x 36	(2) 4M x 36	(2) 4M x 36	(2) 4M x 36
112MB	(2) 2M x 36	(2) 4M x 36	(2) 8M x 36	NONE
112MB	(2) 2M x 36	(2) 8M x 36	(2) 4M x 36	NONE
112MB	(2) 8M x 36	(2) 2M x 36	(2) 4M x 36	NONE
112MB	(2) 4M x 36	(2) 2M x 36	(2) 4M x 36	(2) 4M x 36

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DRAM CONFIGURATION (CON'T)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
112MB	(2) 4M x 36	(2) 2M x 36	(2) 8M x 36	NONE
128MB	(2) 2M x 36	(2) 2M x 36	(2) 4M x 36	(2) 8M x 36
128MB	(2) 2M x 36	(2) 2M x 36	(2) 8M x 36	(2) 4M x 36
128MB	(2) 8M x 36	(2) 4M x 36	(2) 4M x 36	NONE
128MB	(2) 4M x 36			
128MB	(2) 4M x 36	(2) 4M x 36	(2) 8M x 36	NONE
128MB	(2) 4M x 36	(2) 8M x 36	(2) 4M x 36	NONE
144MB	(2) 2M x 36	(2) 4M x 36	(2) 4M x 36	(2) 8M x 36
144MB	(2) 2M x 36	(2) 4M x 36	(2) 8M x 36	(2) 4M x 36
144MB	(2) 2M x 36	(2) 8M x 36	(2) 4M x 36	(2) 4M x 36
144MB	(2) 2M x 36	(2) 8M x 36	(2) 8M x 36	NONE
144MB	(2) 8M x 36	(2) 2M x 36	(2) 4M x 36	(2) 4M x 36
144MB	(2) 8M x 36	(2) 2M x 36	(2) 8M x 36	NONE
144MB	(2) 4M x 36	(2) 2M x 36	(2) 4M x 36	(2) 8M x 36
144MB	(2) 4M x 36	(2) 2M x 36	(2) 8M x 36	(2) 4M x 36
160MB	(2) 2M x 36	(2) 2M x 36	(2) 8M x 36	(2) 8M x 36
160MB	(2) 8M x 36	(2) 4M x 36	(2) 4M x 36	(2) 4M x 36
160MB	(2) 8M x 36	(2) 4M x 36	(2) 8M x 36	NONE
160MB	(2) 8M x 36	(2) 8M x 36	(2) 4M x 36	NONE
160MB	(2) 4M x 36	(2) 4M x 36	(2) 4M x 36	(2) 8M x 36
160MB	(2) 4M x 36	(2) 4M x 36	(2) 8M x 36	(2) 4M x 36
160MB	(2) 4M x 36	(2) 8M x 36	(2) 4M x 36	(2) 4M x 36
160MB	(2) 4M x 36	(2) 8M x 36	(2) 8M x 36	NONE
176MB	(2) 2M x 36	(2) 4M x 36	(2) 8M x 36	(2) 8M x 36
176MB	(2) 2M x 36	(2) 8M x 36	(2) 4M x 36	(2) 8M x 36
176MB	(2) 2M x 36	(2) 8M x 36	(2) 8M x 36	(2) 4M x 36
176MB	(2) 8M x 36	(2) 2M x 36	(2) 4M x 36	(2) 8M x 36
176MB	(2) 8M x 36	(2) 2M x 36	(2) 8M x 36	(2) 4M x 36
176MB	(2) 4M x 36	(2) 2M x 36	(2) 8M x 36	(2) 8M x 36
192MB	(2) 8M x 36	(2) 4M x 36	(2) 4M x 36	(2) 8M x 36
192MB	(2) 8M x 36	(2) 4M x 36	(2) 8M x 36	(2) 4M x 36
192MB	(2) 8M x 36	(2) 8M x 36	(2) 4M x 36	(2) 4M x 36
192MB	(2) 8M x 36	(2) 8M x 36	(2) 8M x 36	NONE
192MB	(2) 4M x 36	(2) 4M x 36	(2) 8M x 36	(2) 8M x 36
192MB	(2) 4M x 36	(2) 8M x 36	(2) 4M x 36	(2) 8M x 36
192MB	(2) 4M x 36	(2) 8M x 36	(2) 8M x 36	(2) 4M x 36
208MB	(2) 2M x 36	(2) 8M x 36	(2) 8M x 36	(2) 8M x 36
208MB	(2) 8M x 36	(2) 2M x 36	(2) 8M x 36	(2) 8M x 36
224MB	(2) 8M x 36	(2) 4M x 36	(2) 8M x 36	(2) 8M x 36
224MB	(2) 8M x 36	(2) 8M x 36	(2) 4M x 36	(2) 8M x 36
224MB	(2) 8M x 36	(2) 8M x 36	(2) 8M x 36	(2) 4M x 36
224MB	(2) 4M x 36	(2) 8M x 36	(2) 8M x 36	(2) 8M x 36
256MB	(2) 8M x 36			

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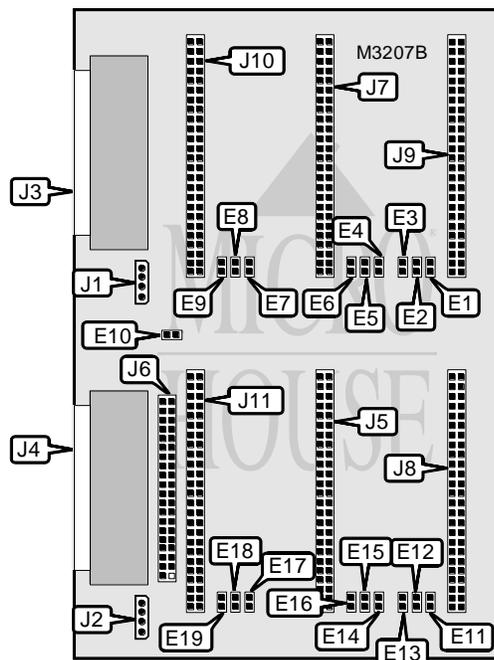
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**CACHE CONFIGURATION**

Note: 256/512KB cache is factory installed and is not configurable. 256KB on 90MHz board & 512KB on 100MHz board

**VIDEO MEMORY CONFIGURATION**

512KB is factory installed and is not configurable.



BACKPLANE BOARD

CONNECTIONS			
Purpose	Location	Purpose	Location
Power connector	J1	SCSI drive tray connector	J7
Power connector	J2	SCSI drive tray connector	J8
SCSI cable connector (J7, J9, J10)	J3	SCSI drive tray connector	J9
SCSI cable connector (J5, J8, J11)	J4	SCSI drive tray connector	J10
SCSI drive tray connector	J5	SCSI drive tray connector	J11

SCSI CHAIN CONFIGURATION		
Setting	E10	J6
Single chain	Open	Closed
Double chain	Closed	Open

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SCSI ID CONFIGURATION (J9 DRIVE)			
ID	E1	E2	E3
0	Open	Open	Open
1	Closed	Open	Open
2	Open	Closed	Open
3	Open	Closed	Closed
4	Closed	Open	Open
5	Closed	Open	Closed
6	Closed	Closed	Open
7	Closed	Closed	Closed

SCSI ID CONFIGURATION (J7 DRIVE)			
ID	E4	E5	E6
0	Open	Open	Open
1	Closed	Open	Open
2	Open	Closed	Open
3	Open	Closed	Closed
4	Closed	Open	Open
5	Closed	Open	Closed
6	Closed	Closed	Open
7	Closed	Closed	Closed

SCSI ID CONFIGURATION (J10 DRIVE)			
ID	E7	E8	E9
0	Open	Open	Open
1	Closed	Open	Open
2	Open	Closed	Open
3	Open	Closed	Closed
4	Closed	Open	Open
5	Closed	Open	Closed
6	Closed	Closed	Open
7	Closed	Closed	Closed

SCSI ID CONFIGURATION (J8 DRIVE)			
ID	E11	E12	E13
0	Open	Open	Open
1	Closed	Open	Open
2	Open	Closed	Open
3	Open	Closed	Closed
4	Closed	Open	Open
5	Closed	Open	Closed
6	Closed	Closed	Open
7	Closed	Closed	Closed

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SCSI ID CONFIGURATION (J5 DRIVE)			
ID	E14	E15	E16
0	Open	Open	Open
1	Closed	Open	Open
2	Open	Closed	Open
3	Open	Closed	Closed
4	Closed	Open	Open
5	Closed	Open	Closed
6	Closed	Closed	Open
7	Closed	Closed	Closed

SCSI ID CONFIGURATION (J11 DRIVE)			
ID	E17	E18	E19
0	Open	Open	Open
1	Closed	Open	Open
2	Open	Closed	Open
3	Open	Closed	Closed
4	Closed	Open	Open
5	Closed	Open	Closed
6	Closed	Closed	Open
7	Closed	Closed	Closed