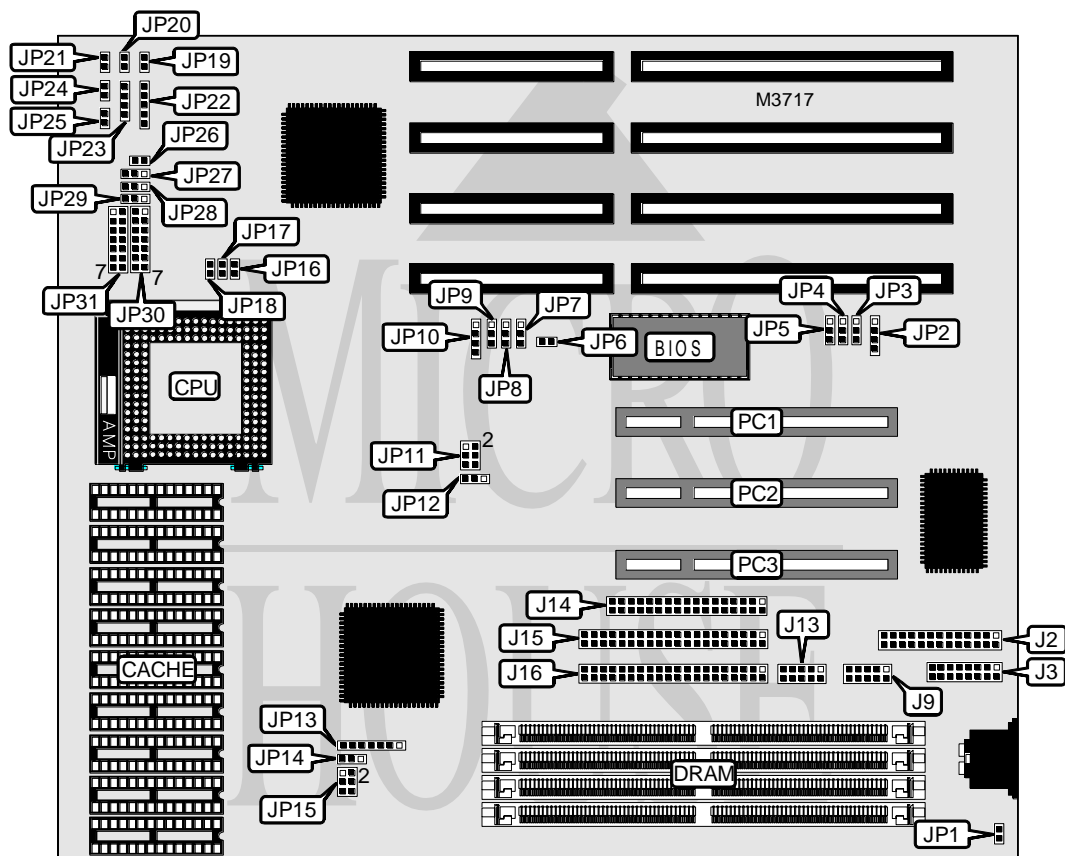


# AMPTRON INTERNATIONAL, INC.

## DX-9300A (VER 1.1)

<b>Processor</b>	80486SX/SL80486SX/CX486DX/IBM486DX/TI486DX/AM486DX/ 80486DX/SL80486DX/CX486DX2/IBM486DX2/TI486DX2/AM486DX2/(SL)AM486 DX2/80486DX2/SL80486DX2/AM486DX4/(SL)AM486DX2/SL80486DX4/P24D/P2 4T/CXM1-SC
<b>Processor Speed</b>	25/33/40/50(internal)/50/66(internal)/75(internal)/80(internal)/ 100(internal)/120(internal)MHz
<b>Chip Set</b>	Unidentified
<b>Video Chip Set</b>	None
<b>Maximum Onboard Memory</b>	256MB (EDO supported)
<b>Maximum Video Memory</b>	None
<b>Cache</b>	128/256/512/1024KB
<b>BIOS</b>	AMI
<b>Dimensions</b>	254mm x 218mm
<b>I/O Options</b>	32-bit PCI slots (3), floppy drive interface, game interface, green PC connector, IDE interfaces (2), parallel port, serial ports (2)
<b>NPU Options</b>	None



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CONNECTIONS			
Purpose	Location	Purpose	Location
Parallel port	J2	Green PC connector	JP17
Game interface	J3	Turbo LED	JP19
Serial port 1	J9	IDE interface LED 1	JP20
Serial port 2	J13	IDE interface LED 2	JP21
Floppy drive interface	J14	Power LED & keylock	JP22
IDE interface 2	J15	Speaker	JP23
IDE interface 1	J16	Turbo switch	JP24
Green PC connector (monitor)	JP1	Reset switch	JP25
External battery	JP2	32-bit PCI slots	PC1 - PC3
Chassis fan power	JP10		

USER CONFIGURABLE SETTINGS		
Function	Label	Position
Flash BIOS voltage select 12v	JP5	Pins 1 & 2 closed
Flash BIOS voltage select 5v	JP5	Pins 2 & 3 closed
í Factory configured - do not alter	JP16	Open

DRAM CONFIGURATION				
Size	Bank 0	Bank 1	Bank 2	Bank 3
1MB	(1) 256K x 36	None	None	None
2MB	(1) 256K x 36	(1) 256K x 36	None	None
3MB	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36	None
4MB	(1) 1M x 36	None	None	None
4MB	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
5MB	(1) 1M x 36	(1) 256K x 36	None	None
6MB	(1) 1M x 36	(1) 256K x 36	(1) 256K x 36	None
7MB	(1) 1M x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
8MB	(1) 2M x 36	None	None	None
8MB	(1) 1M x 36	(1) 1M x 36	None	None
9MB	(1) 2M x 36	(1) 256K x 36	None	None
10MB	(1) 2M x 36	(1) 256K x 36	(1) 256K x 36	None
11MB	(1) 2M x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
12MB	(1) 2M x 36	(1) 1M x 36	None	None
12MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36	None
16MB	(1) 4M x 36	None	None	None
16MB	(1) 2M x 36	(1) 1M x 36	(1) 1M x 36	None
16MB	(1) 2M x 36	(1) 2M x 36	None	None
16MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
17MB	(1) 4M x 36	(1) 256K x 36	None	None
18MB	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36	None
19MB	(1) 4M x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
20MB	(1) 4M x 36	(1) 1M x 36	None	None

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DRAM CONFIGURATION (CON'T)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
20MB	(1) 2M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
24MB	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36	None
24MB	(1) 4M x 36	(1) 2M x 36	None	None
24MB	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36	None
28MB	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
32MB	(1) 8M x 36	None	None	None
32MB	(1) 4M x 36	(1) 2M x 36	(1) 2M x 36	None
32MB	(1) 4M x 36	(1) 4M x 36	None	None
32MB	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36
33MB	(1) 8M x 36	(1) 256K x 36	None	None
34MB	(1) 8M x 36	(1) 256K x 36	(1) 256K x 36	None
36MB	(1) 8M x 36	(1) 1M x 36	None	None
36MB	(1) 1M x 36	(1) 4M x 36	(1) 4M x 36	None
40MB	(1) 8M x 36	(1) 1M x 36	(1) 1M x 36	None
40MB	(1) 8M x 36	(1) 2M x 36	None	None
40MB	(1) 4M x 36	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36
44MB	(1) 8M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
48MB	(1) 8M x 36	(1) 2M x 36	(1) 2M x 36	None
48MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	None
48MB	(1) 4M x 36	(1) 8M x 36	None	None
56MB	(1) 8M x 36	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36
64MB	(1) 16M x 36	None	None	None
64MB	(1) 8M x 36	(1) 4M x 36	(1) 4M x 36	None
64MB	(1) 8M x 36	(1) 8M x 36	None	None
64MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
65MB	(1) 16M x 36	(1) 256K x 36	None	None
66MB	(1) 16M x 36	(1) 256K x 36	(1) 256K x 36	None
67MB	(1) 16M x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
68MB	(1) 16M x 36	(1) 1M x 36	None	None
72MB	(1) 16M x 36	(1) 1M x 36	(1) 1M x 36	None
72MB	(1) 16M x 36	(1) 2M x 36	None	None
72MB	(1) 2M x 36	(1) 8M x 36	(1) 8M x 36	None
76MB	(1) 16M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
80MB	(1) 16M x 36	(1) 2M x 36	(1) 2M x 36	None
80MB	(1) 16M x 36	(1) 4M x 36	None	None
80MB	(1) 8M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
88MB	(1) 16M x 36	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36
96MB	(1) 16M x 36	(1) 4M x 36	(1) 4M x 36	None
96MB	(1) 16M x 36	(1) 8M x 36	None	None
96MB	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36	None
100MB	(1) 1M x 36	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36
112MB	(1) 16M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36

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DRAM CONFIGURATION (CON'T)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
112MB	(1) 4M x 36	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36
128MB	(1) 16M x 36	(1) 16M x 36	None	None
128MB	(1) 16M x 36	(1) 8M x 36	(1) 8M x 36	None
128MB	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36
132MB	(1) 32M x 36	(1) 1M x 36	None	None
136MB	(1) 32M x 36	(1) 1M x 36	(1) 1M x 36	None
136MB	(1) 32M x 36	(1) 2M x 36	None	None
140MB	(1) 32M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
144MB	(1) 32M x 36	(1) 4M x 36	None	None
152MB	(1) 32M x 36	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36
152MB	(1) 32M x 36	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36
160MB	(1) 16M x 36	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36
160MB	(1) 32M x 36	(1) 4M x 36	(1) 4M x 36	None
160MB	(1) 32M x 36	(1) 8M x 36	None	None
176MB	(1) 32M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
192MB	(1) 16M x 36	(1) 16M x 36	(1) 16M x 36	None
192MB	(1) 32M x 36	(1) 8M x 36	(1) 8M x 36	None
224MB	(1) 32M x 36	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36
256MB	(1) 16M x 36	(1) 16M x 36	(1) 16M x 36	(1) 16M x 36
256MB	(1) 32M x 36	(1) 32M x 36	None	None
256MB	(1) 64M x 36	None	None	None

Note: Board accepts EDO memory. The location of banks 0 & 1 are unidentified.

CACHE CONFIGURATION			
Size	Bank 0	Bank 1	TAG
128KB	(4) 32K x 8	None	(1) 32K x 8
256KB (A)	(4) 32K x 8	(4) 32K x 8	(1) 32K x 8
256KB (B)	(4) 64K x 8	None	(1) 32K x 8
512KB	(4) 64K x 8	(4) 64K x 8	(1) 32K x 8
1MB	(4) 128K x 8	None	(1) 32K x 8

Note: The location of banks 0 & 1 are unidentified.

CACHE JUMPER CONFIGURATION			
Size	JP13	JP14	JP15
128KB	1 & 2	1 & 2	Open
256KB (A)	2 & 3	2 & 3	5 & 6
256KB (B)	1 & 2, 3 & 4	1 & 2	5 & 6
512KB	1 & 2, 3 & 4, 5 & 6	1 & 2	3 & 4, 5 & 6
1MB	2 & 3, 4 & 5, 6 & 7	2 & 3	1 & 2, 3 & 4, 5 & 6

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# AMPTRON INTERNATIONAL, INC.

## DX-9300A (VER 1.1)

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CPU SPEED SELECTION			
Speed	JP11	JP12	JP18
25MHz	5 & 6	2 & 3	Open
33MHz	1 & 2, 3 & 4, 5 & 6	2 & 3	Open
40MHz	3 & 4, 5 & 6	1 & 2	Closed
50iMHz	5 & 6	2 & 3	Open
50MHz	1 & 2	1 & 2	Closed
66iMHz	1 & 2, 3 & 4, 5 & 6	2 & 3	Open
75iMHz	5 & 6	2 & 3	Open
80iMHz	3 & 4, 5 & 6	1 & 2	Closed
100iMHz	1 & 2, 3 & 4, 5 & 6	2 & 3	Open
120iMHz	3 & 4, 5 & 6	1 & 2	Closed

Note: Pins designated should be in the closed position.

CPU TYPE SELECTION				
Type	JP26	JP27	JP28	JP29
80486SX	Open	Open	Pins 1 & 2 closed	Pins 1 & 2 closed
SL80486SX	Closed	Open	Pins 1 & 2 closed	Pins 1 & 2 closed
CX486DX	Closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
IBM486DX	Closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
TI486DX	Closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
AM486DX	Open	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
80486DX	Open	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
SL80486DX	Closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
CX486DX2	Closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
IBM486DX2	Closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
TI486DX2	Closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
AM486DX2	Open	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
(SL)AM486DX2	Closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
80486DX2	Open	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
SL80486DX2	Closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
AM486DX4	Open	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
(SL)AM486DX4	Closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
SL80486DX4	Closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
P24D	Closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
P24T	Closed	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
CXM1-SC	Closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed

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## DX-9300A (VER 1.1)

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CPU TYPE SELECTION (CON'T)		
Type	JP30	JP31
80486SX	Pins 1 & 8 closed	Open
SL80486SX	Pins 2 & 9, 5 & 12 closed	Pins 2 & 9 closed
CX486DX	Pins 3 & 10, 6 & 13 closed	Pins 3 & 10, 4 & 11 closed
IBM486DX	Pins 3 & 10, 6 & 13 closed	Pins 3 & 10, 4 & 11 closed
TI486DX	Pins 3 & 10, 6 & 13 closed	Pins 3 & 10, 4 & 11 closed
AM486DX	Pins 1 & 8, 7 & 14 closed	Open
80486DX	Pins 1 & 8 closed	Open
SL80486DX	Pins 2 & 9, 5 & 12, 7 & 14 closed	Pins 2 & 9 closed
CX486DX2	Pins 3 & 10, 6 & 13 closed	Pins 3 & 10, 4 & 11 closed
IBM486DX2	Pins 3 & 10, 6 & 13 closed	Pins 3 & 10, 4 & 11 closed
TI486DX2	Pins 3 & 10, 6 & 13 closed	Pins 3 & 10, 4 & 11 closed
AM486DX2	Pins 1 & 8, 7 & 14 closed	Open
(SL)AM486DX2	Pins 2 & 9, 4 & 11, 5 & 12 closed	Pins 2 & 9, 6 & 13, 7 & 14 closed
80486DX2	Pins 1 & 8 closed	Open
SL80486DX2	Pins 2 & 9, 5 & 12, 7 & 14 closed	Pins 2 & 9 closed
AM486DX4	Pins 1 & 8 closed	Open
(SL)AM486DX4	Pins 2 & 9, 5 & 12 closed	Pins 2 & 9, 6 & 13, 7 & 14 closed
SL80486DX4	Pins 2 & 9, 5 & 12 closed	Pins 2 & 9 closed
P24D	Pins 2 & 9, 5 & 12 closed	Pins 2 & 9, 6 & 13, 7 & 14 closed
P24T	Pins 2 & 9, 5 & 12 closed	Pins 2 & 9 closed
CXM1-SC	Pins 2 & 9, 5 & 12 closed	Pins 2 & 9, 6 & 13, 7 & 14 closed

CPU VOLTAGE SELECTION				
Voltage	JP6	JP7	JP8	JP9
3.3v	Closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed
4v	Open	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed
5v	Closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed

DMA CHANNEL SELECTION		
Channel	JP3	JP4
1	Pins 1 & 2 closed	Pins 1 & 2 closed
3	Pins 2 & 3 closed	Pins 2 & 3 closed