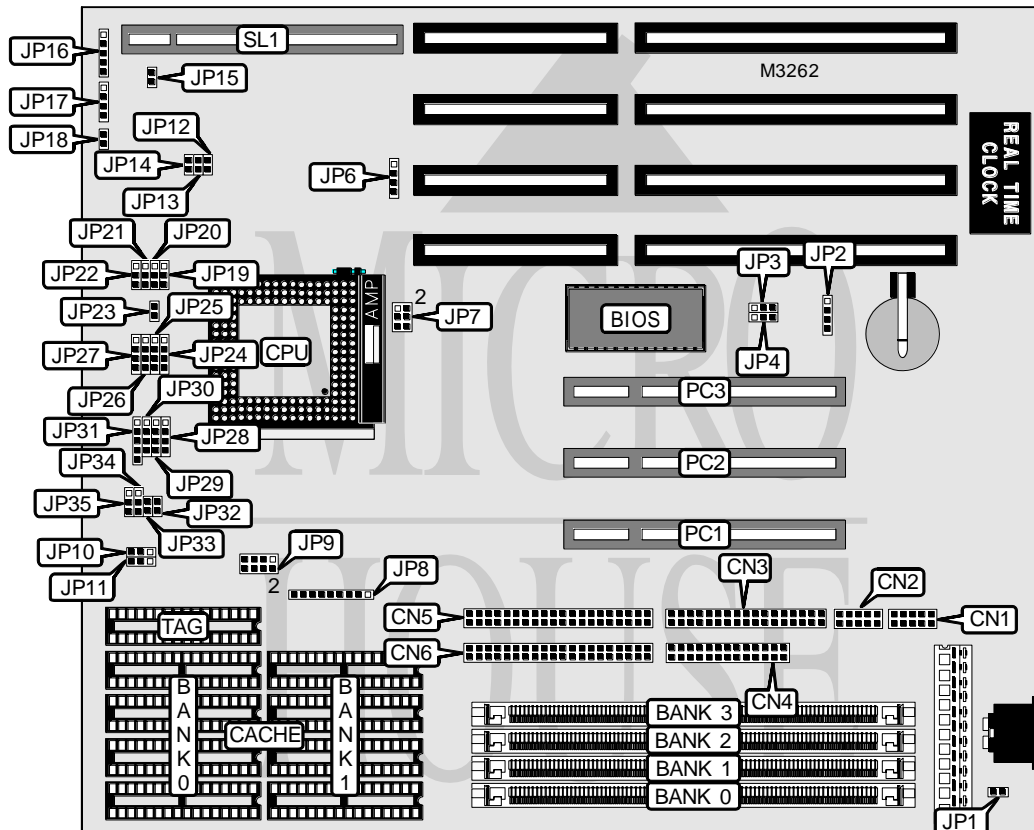


# AMPTRON INTERNATIONAL, INC.

## DX-9500 VER. 1.0

<b>Processor</b>	CX486DX/IBM486DX/TI486DX/SGS486DX/80486DX/CX486DX2/IBM486DX2/ TI486DX2/SGS486DX2/AM486DX2/80486DX2/CX486DX4/IBM486DX4/ TI486DX4/SGS486DX4/AM486DX4/80486DX4/P24D/P24T/CX5X86/AM K5
<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>	UMC
<b>Max. Onboard DRAM</b>	256MB
<b>Cache</b>	64/128/256/512/1024KB
<b>BIOS</b>	AMI
<b>Dimensions</b>	254mm x 218mm
<b>I/O Options</b>	32-bit VESA local bus slot, 32-bit PCI slots (3), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, serial ports (2)
<b>NPU Options</b>	none



Continued on next page. . .

# AMPTRON INTERNATIONAL, INC.

## DX-9500 VER. 1.0

... continued from previous page

CONNECTIONS			
Purpose	Location	Purpose	Location
Serial port 1	CN1	Reset switch	JP13
Serial port 2	CN2	Green PC connector	JP14
Floppy drive interface	CN3	IDE interface LED	JP15
Parallel port	CN4	Power LED & keylock	JP16
IDE interface 2	CN5	Speaker	JP17
IDE interface 1	CN6	Turbo LED	JP18
Green PC connector (monitor)	JP1	32-bit PCI slots	PC1 - PC3
External battery	JP2	32-bit VESA local bus slot	SL1
Turbo switch	JP12		

USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
Battery type select internal	JP2	Pins 2 & 3 closed
Battery type select external	JP2	Closed
CMOS memory clear	JP2	Pins 3 & 4 closed
í Factory configured - do not alter	JP3	N/A
í Factory configured - do not alter	JP4	N/A
Flash BIOS voltage select 5v	JP5	Pins 1 & 2 closed
Flash BIOS voltage select 12v	JP5	Pins 2 & 3 closed
í Factory configured - do not alter	JP6	N/A

Note: The location of JP5 is unidentified.

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
5MB	(1) 256K x 36	(1) 1M 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
9MB	(1) 256K x 36	(1) 1M x 36	(1) 1M x 36	None
9MB	(1) 256K x 36	(1) 2M 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
12MB	(1) 1M x 36	(1) 2M x 36	None	None
13MB	(1) 256K x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36

Continued on next page. . .

# AMPTRON INTERNATIONAL, INC.

## DX-9500 VER. 1.0

... continued from previous page

DRAM CONFIGURATION (CON'T)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
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
17MB	(1) 256K x 36	(1) 2M x 36	(1) 2M x 36	None
17MB	(1) 256K x 36	(1) 4M 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
20MB	(1) 2M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
20MB	(1) 1M x 36	(1) 2M x 36	(1) 2M x 36	None
20MB	(1) 1M x 36	(1) 4M x 36	None	None
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
24MB	(1) 2M x 36	(1) 4M x 36	None	None
25MB	(1) 256K x 36	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36
28MB	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
28MB	(1) 1M x 36	(1) 2M x 36	(1) 2M x 36	(1) 2M 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
33MB	(1) 256K x 36	(1) 4M x 36	(1) 4M x 36	None
33MB	(1) 256K x 36	(1) 8M x 36	None	None
34MB	(1) 8M x 36	(1) 256K x 36	(1) 256K x 36	None
35MB	(1) 8M x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
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
36MB	(1) 1M x 36	(1) 8M x 36	None	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
40MB	(1) 2M x 36	(1) 4M x 36	(1) 4M x 36	None
40MB	(1) 2M x 36	(1) 8M x 36	None	None
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) 8M x 36	(1) 4M x 36	None	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
49MB	(1) 256K x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36

Continued on next page. . .

# AMPTRON INTERNATIONAL, INC.

## DX-9500 VER. 1.0

... continued from previous page

DRAM CONFIGURATION (CON'T)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
52MB	(1) 1M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
56MB	(1) 8M x 36	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36
56MB	(1) 2M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
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) 256K x 36	(1) 8M x 36	(1) 8M x 36	None
68MB	(1) 1M x 36	(1) 8M x 36	(1) 8M x 36	None
72MB	(1) 2M x 36	(1) 8M x 36	(1) 8M x 36	None
80MB	(1) 8M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
80MB	(1) 4M x 36	(1) 8M x 36	(1) 8M x 36	None
96MB	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36	None
97MB	(1) 256K x 36	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36
100MB	(1) 1M x 36	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36
104MB	(1) 2M x 36	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36
112MB	(1) 4M x 36	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36
128MB	(1) 32M x 36	None	None	None
128MB	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36
129MB	(1) 32M x 36	(1) 256K x 36	None	None
131MB	(1) 32M x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K 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) 2M x 36	(1) 2M x 36	None
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
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) 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) 64M x 36	None	None	None
256MB	(1) 32M x 36	(1) 32M x 36	None	None

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

Continued on next page...

# AMPTRON INTERNATIONAL, INC.

## DX-9500 VER. 1.0

... continued from previous page

### CACHE JUMPER CONFIGURATION

Note: Settings for JP8 & JP9 are not available from manufacturer.

### CPU TYPE CONFIGURATION

Type	JP10	JP11	JP24	JP25	JP26
CX486DX	1 & 2	2 & 3	1 & 2, 3 & 4	3 & 4	1 & 2
IBM486DX	1 & 2	2 & 3	1 & 2, 3 & 4	3 & 4	1 & 2
TI486DX	1 & 2	2 & 3	1 & 2, 3 & 4	3 & 4	1 & 2
SGS486DX	1 & 2	2 & 3	1 & 2, 3 & 4	3 & 4	1 & 2
80486DX	1 & 2	1 & 2	1 & 2, 3 & 4	3 & 4	Open
CX486DX2	1 & 2	2 & 3	1 & 2, 3 & 4	3 & 4	1 & 2
IBM486DX2	1 & 2	2 & 3	1 & 2, 3 & 4	3 & 4	1 & 2
TI486DX2	1 & 2	2 & 3	1 & 2, 3 & 4	3 & 4	1 & 2
SGS486DX2	1 & 2	2 & 3	1 & 2, 3 & 4	3 & 4	1 & 2
AM486DX2	1 & 2	1 & 2	1 & 2, 3 & 4	3 & 4	Open
80486DX2	1 & 2	1 & 2	1 & 2, 3 & 4	3 & 4	Open
CX486DX4	1 & 2	2 & 3	1 & 2, 3 & 4	3 & 4	1 & 2, 3 & 4
(SL)CX486DX4	1 & 2	2 & 3	1 & 2, 3 & 4	3 & 4	1 & 2
IBM486DX4	1 & 2	2 & 3	1 & 2, 3 & 4	3 & 4	1 & 2, 3 & 4
(SL)IBM486DX4	1 & 2	2 & 3	1 & 2, 3 & 4	3 & 4	1 & 2
TI486DX4	1 & 2	2 & 3	1 & 2, 3 & 4	3 & 4	1 & 2, 3 & 4
(SL)TI486DX4	1 & 2	2 & 3	1 & 2, 3 & 4	3 & 4	1 & 2
SGS486DX4	1 & 2	2 & 3	1 & 2, 3 & 4	3 & 4	1 & 2, 3 & 4
(SL)SGS486DX4	1 & 2	2 & 3	1 & 2, 3 & 4	3 & 4	1 & 2
AM486DX4	1 & 2	1 & 2	1 & 2, 3 & 4	3 & 4	Open
(SL)AM486DX4	1 & 2	1 & 2	1 & 2, 3 & 4	3 & 4	1 & 2, 3 & 4
80486DX4	1 & 2	1 & 2	1 & 2, 3 & 4	3 & 4	1 & 2
P24D	1 & 2	1 & 2	1 & 2, 3 & 4	3 & 4	1 & 2, 3 & 4
P24T	1 & 2	1 & 2	1 & 2, 3 & 4	2 & 3	1 & 2
CX5X86	1 & 2	1 & 2	1 & 2, 3 & 4	3 & 4	1 & 2, 3 & 4
CX5X86-133	1 & 2	1 & 2	1 & 2, 3 & 4	3 & 4	1 & 2, 3 & 4
AM K5	1 & 2	1 & 2	1 & 2, 3 & 4	3 & 4	1 & 2, 3 & 4

Note: Pins designated should be in the closed position.

Continued on next page. . .

# AMPTRON INTERNATIONAL, INC.

## DX-9500 VER. 1.0

... continued from previous page

CPU TYPE CONFIGURATION (CON'T)					
Type	JP27	JP28	JP29	JP30	JP31
CX486DX	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2, 3 & 4
IBM486DX	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2, 3 & 4
TI486DX	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2, 3 & 4
SGS486DX	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2, 3 & 4
80486DX	Open	2 & 3	Open	Open	Open
CX486DX2	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2, 3 & 4
IBM486DX2	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2, 3 & 4
TI486DX2	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2, 3 & 4
SGS486DX2	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2, 3 & 4
AM486DX2	Open	2 & 3	Open	Open	Open
80486DX2	Open	2 & 3	Open	Open	Open
CX486DX4	3 & 4	1 & 2	1 & 2, 3 & 4	Open	2 & 3, 4 & 5
(SL)CX486DX4	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2, 3 & 4
IBM486DX4	3 & 4	1 & 2	1 & 2, 3 & 4	Open	2 & 3, 4 & 5
(SL)IBM486DX4	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2, 3 & 4
TI486DX4	3 & 4	1 & 2	1 & 2, 3 & 4	Open	2 & 3, 4 & 5
(SL)TI486DX4	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2, 3 & 4
SGS486DX4	3 & 4	1 & 2	1 & 2, 3 & 4	Open	2 & 3, 4 & 5
(SL)SGS486DX4	2 & 3	1 & 2	2 & 3	2 & 3	1 & 2, 3 & 4
AM486DX4	Open	2 & 3	Open	Open	Open
(SL)AM486DX4	3 & 4	1 & 2	1 & 2, 3 & 4	Open	2 & 3, 4 & 5
80486DX4	Open	1 & 2	1 & 2	Open	2 & 3, 4 & 5
P24D	3 & 4	1 & 2	1 & 2, 3 & 4	Open	2 & 3, 4 & 5
P24T	1 & 2	2 & 3	1 & 2	1 & 2	2 & 3, 4 & 5
CX5X86	3 & 4	1 & 2	1 & 2, 3 & 4	Open	2 & 3, 4 & 5
CX5X86-133	3 & 4	1 & 2	1 & 2, 3 & 4	Open	2 & 3, 4 & 5
AM K5	3 & 4	1 & 2	1 & 2, 3 & 4	Open	2 & 3, 4 & 5

Note: Pins designated should be in the closed position.

Continued on next page. . .

# AMPTRON INTERNATIONAL, INC.

## DX-9500 VER. 1.0

... continued from previous page

CPU TYPE CONFIGURATION (CON'T)				
Type	JP32	JP33	JP34	JP35
CX486DX	Open	Open	Pins 1 & 2 closed	Open
IBM486DX	Open	Open	Pins 1 & 2 closed	Open
TI486DX	Open	Open	Pins 1 & 2 closed	Open
SGS486DX	Open	Open	Pins 1 & 2 closed	Open
80486DX	Closed	Closed	Open	Pins 2 & 3 closed
CX486DX2	Open	Open	Pins 1 & 2 closed	Open
IBM486DX2	Open	Open	Pins 1 & 2 closed	Open
TI486DX2	Open	Open	Pins 1 & 2 closed	Open
SGS486DX2	Open	Open	Pins 1 & 2 closed	Open
AM486DX2	Closed	Closed	Open	Pins 2 & 3 closed
80486DX2	Closed	Closed	Open	Pins 2 & 3 closed
CX486DX4	Open	Open	Open	Open
(SL)CX486DX4	Open	Open	Pins 1 & 2 closed	Open
IBM486DX4	Open	Open	Open	Open
(SL)IBM486DX4	Open	Open	Pins 1 & 2 closed	Open
TI486DX4	Open	Open	Open	Open
(SL)TI486DX4	Open	Open	Pins 1 & 2 closed	Open
SGS486DX4	Open	Open	Open	Open
(SL)SGS486DX4	Open	Open	Pins 1 & 2 closed	Open
AM486DX4	Closed	Closed	Open	Pins 1 & 2 closed
(SL)AM486DX4	Open	Open	Open	Pins 1 & 2 closed
80486DX4	Open	Open	Open	Pins 2 & 3 closed
P24D	Open	Open	Open	Pins 1 & 2 closed
P24T	Open	Open	Pins 2 & 3 closed	Pins 2 & 3 closed
CX5X86	Open	Open	Open	Pins 1 & 2 closed
CX5X86-133	Open	Closed	Open	Pins 1 & 2 closed
AM K5	Open	Closed	Open	Pins 1 & 2 closed

CPU SPEED CONFIGURATION	
Speed	JP7
25MHz	Pins 5 & 6 closed
33MHz	Pins 1 & 2, 3 & 4, 5 & 6 closed
40MHz	Pins 3 & 4, 5 & 6 closed
50iMHz	Pins 5 & 6 closed
50MHz	Pins 1 & 2 closed
66iMHz	Pins 1 & 2, 3 & 4, 5 & 6 closed
75iMHz	Pins 5 & 6 closed
80iMHz	Pins 3 & 4, 5 & 6 closed
100iMHz	Pins 1 & 2, 3 & 4, 5 & 6 closed
120iMHz	Pins 3 & 4, 5 & 6 closed
133iMHz	Pins 1 & 2, 3 & 4, 5 & 6 closed

Continued on next page...

---

**AMPTRON INTERNATIONAL, INC.**  
**DX-9500 VER. 1.0***... continued from previous page*

CPU VOLTAGE CONFIGURATION					
Voltage	JP19	JP20	JP21	JP22	JP23
3.3v	1 & 2	1 & 2	1 & 2	1 & 2	Closed
4v	1 & 2	1 & 2	1 & 2	1 & 2	Open
5v	2 & 3	2 & 3	2 & 3	2 & 3	Closed

Note: Pins designated should be in the closed position.