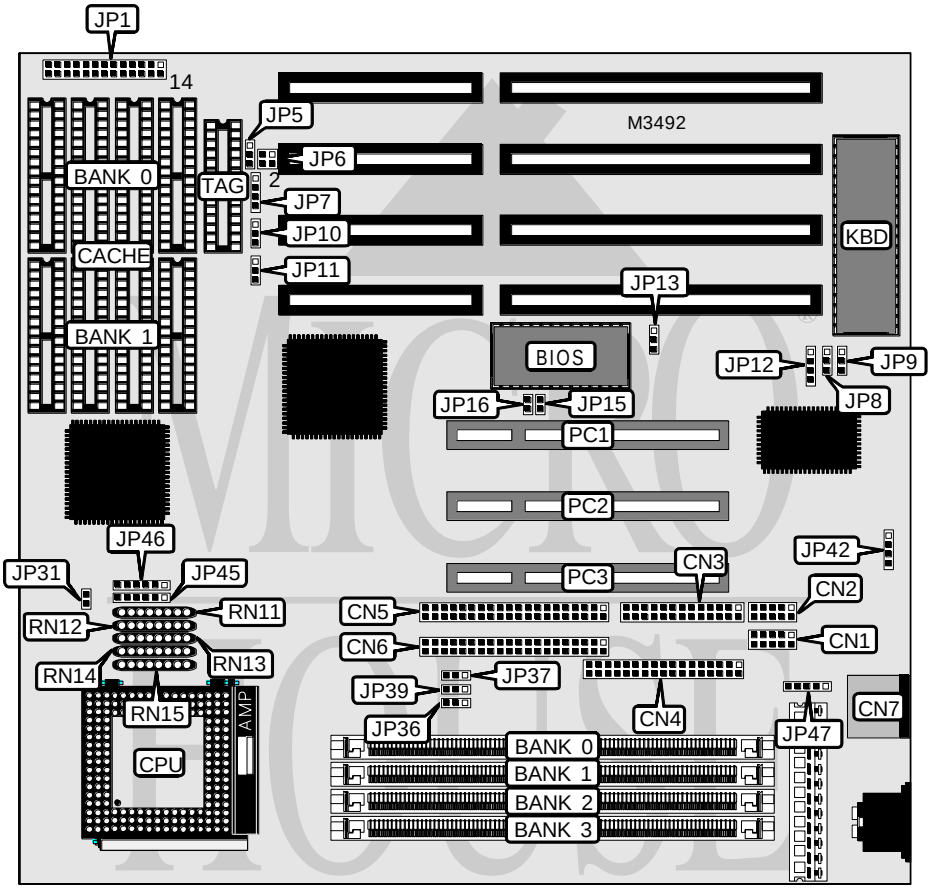
BIOSTAR MICROTECH INTERNATIONAL CORPORATION
MB-8425UUD-A, MB-8433UUD-A, MB-8440UUD-A (VER. 1 & 2, ALL MODELS)

Processor	UMCU5S/CX486DX/AM486DX/(SL)AM486DX(SV8B)/(SL)AM486DX(SV8T)/80486DX/ CX486DX2/AM486DX2/9SL)AM486DX2(SV8B)/ (SL)AM486DX2(SV8T)/80486DX2/CX486DX4/(SL)CX486DX4/AM486DX4/(SL)AM486 DX4(SV8B)/(SL)AM486DX4(SV8T)/80486DX4/P24D/P24T/ CX5X86/AM5X86
Processor Speed	25/33/40/50(internal)/50/66(internal)/75(internal)/100(internal)MHz
Chip Set	Unidentified
Video Chip Set	None
Maximum Onboard Memory	128MB
Maximum Video Memory	None
Cache	128/256/512KB
BIOS	Award
Dimensions	220mm x 220mm
I/O Options	32-bit PCI slots (3), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2)
NPU Options	None



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CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
Serial port 1	CN1	Green PC LED	JP1 pins 14 & 15
Serial port 2	CN2	Reset switch	JP1 pins12 & 13
Parallel port	CN3	Green PC connector	JP1 pins 17 & 18
Floppy drive interface	CN4	IDE interface LED	JP1 pins 20 & 21
IDE interface 1	CN5	Turbo switch	JP1 pins 23 & 24
IDE interface 2	CN6	+12v ground	JP1 pins 25 & 26
PS/2 mouse port	CN7	External battery	JP42
Speaker	JP1 pins 1- 4	PS/2 mouse interface	JP47
Power LED & keylock	JP1 pins 5 - 9	32-bit PCI slots	PC1 - PC3
Turbo LED	JP1 pins 10 & 11		

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
í Dallas DS12887A normal operation	JP12	Pins 3 & 4 open
Dallas DS12887A clear	JP12	Pins 3 & 4 closed
Flash BIOS voltage select 12v	JP13	Pins 2 & 3 closed
Flash BIOS voltage select 5v	JP13	Pins 1 & 2 closed
EPROM BIOS used	JP13	Open
í CMOS memory normal operation	JP42	Pins 2 & 3 closed
CMOS memory clear	JP42	Pins 3 & 4 closed
Battery type select external	JP42	Closed
Note: JP12 is only present if the Dallas DS12887A(BQ3287A)/OEC12C887A clock is installed.		

DRAM CONFIGURATION				
Size	**Bank 0**	**Bank 1**	**Bank 2**	**Bank 3**
1MB	(1) 256K x 36	None	None	None
2MB	(1) 512K 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) 512K x 36	(1) 256K x 36	(1) 256K x 36	None
4MB	(1) 512K x 36	(1) 512K x 36	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) 512K x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
5MB	(1) 256K x 36	(1) 512K x 36	(1) 512K x 36	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
6MB	(1) 1M x 36	(1) 512K x 36	None	None
7MB	(1) 256K x 36	(1) 512K x 36	(1) 512K x 36	(1) 512K x 36

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DRAM CONFIGURATION (CON'T)				
Size	**Bank 0**	**Bank 1**	**Bank 2**	**Bank 3**
8MB	(1) 2M x 36	None	None	None
8MB	(1) 1M x 36	(1) 512K x 36	(1) 512K x 36	None
8MB	(1) 1M x 36	(1) 1M x 36	None	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
10MB	(1) 2M x 36	(1) 512K x 36	None	None
10MB	(1) 1M x 36	(1) 512K x 36	(1) 512K x 36	(1) 512K x 36
11MB	(1) 2M x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
12MB	(1) 2M x 36	(1) 512K x 36	(1) 512K x 36	None
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
14MB	(1) 2M x 36	(1) 512K x 36	(1) 512K x 36	(1) 512K x 36
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
18MB	(1) 4M x 36	(1) 512K x 36	None	None
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
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
26MB	(1) 512K 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) 8M x 36	None	None
34MB	(1) 8M x 36	(1) 256K x 36	(1) 256K x 36	None
34MB	(1) 8M x 36	(1) 512K x 36	None	None

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DRAM CONFIGURATION (CON'T)				
Size	**Bank 0**	**Bank 1**	**Bank 2**	**Bank 3**
34MB	(1) 512K x 36	(1) 4M x 36	(1) 4M x 36	None
34MB	(1) 512K x 36	(1) 8M x 36	None	None
35MB	(1) 8M x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
36MB	(1) 8M x 36	(1) 512K x 36	(1) 512K 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
38MB	(1) 8M x 36	(1) 512K x 36	(1) 512K x 36	(1) 512K x 36
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
48MB	(1) 8M x 36	(1) 4M x 36	None	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
50MB	(1) 512K x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
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
66MB	(1) 512K 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
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
98MB	(1) 512K 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) 8M x 36	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36
Note: Not all configurations are shown. Any SIMM can be installed in any bank.				

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

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CACHE JUMPER CONFIGURATION			
Size	**JP5**	**JP6**	**JP7**
128KB	Pins 1 & 2 closed	Open	Open
256KB (A)	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed
256KB (B)	Pins 2 & 3 closed	Pins 1 & 2 closed	Open
512KB	Pins 1 & 2 closed	Pins 1 & 2, 3 & 4 closed	Pins 1 & 2, 3 & 4 closed

CPU SPEED SELECTION			
Speed	**JP15**	**JP16**	**JP17**
25MHz	Open	Open	Closed
33MHz	Closed	Closed	Closed
40MHz	Open	Closed	Closed
50iMHz	Open	Open	Closed
50MHz	Closed	Open	Open
66iMHz	Closed	Closed	Closed
75iMHz	Open	Open	Closed
100iMHz	Closed	Closed	Closed
Note: JP17 may not be present on all boards.			

CPU TYPE SELECTION					
Type	**JP10**	**JP11**	**JP31**	**JP45**	**JP46**
UMC U5S	1 & 2	2 & 3	Open	2 & 3	Open
CX486DX	2 & 3	1 & 2	Open	1 & 2	1 & 2, 4 & 5
AM486DX	1 & 2	1 & 2	Open	2 & 3	1 & 2, 4 & 5
(SL)AM486DX(SV8B)	1 & 2	1 & 2	Open	1 & 2	1 & 2, 4 & 5
(SL)AM486DX(SV8T)	1 & 2	1 & 2	Open	1 & 2	1 & 2, 4 & 5
80486DX	1 & 2	1 & 2	Open	2 & 3	1 & 2, 4 & 5
CX486DX2	2 & 3	1 & 2	Open	1 & 2	1 & 2, 4 & 5
AM486DX2	1 & 2	1 & 2	Open	2 & 3, 5 & 6	1 & 2, 4 & 5
(SL)AM486DX2(SV8B)	1 & 2	1 & 2	Open	1 & 2, 4 & 5	1 & 2, 4 & 5
(SL)AM486DX2(SV8T)	1 & 2	1 & 2	Open	1 & 2, 4 & 5	1 & 2, 4 & 5
80486DX2	1 & 2	1 & 2	Open	2 & 3	1 & 2, 4 & 5
CX486DX4	2 & 3	1 & 2	Open	1 & 2	1 & 2, 4 & 5
(SL)CX486DX4	2 & 3	1 & 2	Closed	1 & 2	1 & 2, 4 & 5
AM486DX4	1 & 2	1 & 2	Open	2 & 3	1 & 2, 4 & 5
(SL)AM486DX4(SV8B)	1 & 2	1 & 2	Open	1 & 2	1 & 2, 4 & 5
(SL)AM486DX4(SV8T)	1 & 2	1 & 2	Open	1 & 2	1 & 2, 4 & 5
80486DX4	1 & 2	1 & 2	Open	1 & 2	1 & 2, 4 & 5
P24D	1 & 2	1 & 2	Open	1 & 2	1 & 2, 4 & 5
P24T	1 & 2	1 & 2	Open	1 & 2	2 & 3, 4 & 5
CX5X86	1 & 2	1 & 2	Open	1 & 2	1 & 2, 4 & 5
AM5X86-P75	1 & 2	1 & 2	Open	1 & 2, 4 & 5	1 & 2, 4 & 5
AM5X86-P75+	1 & 2	1 & 2	Open	1 & 2	1 & 2, 4 & 5
AM5X86-P90	1 & 2	1 & 2	Open	1 & 2, 4 & 5	1 & 2, 4 & 5
Note: Pins designated should be in the closed position. Ver. 2 does not support the UMC U5S.					

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CPU TYPE SELECTION (CON'T)					
Type	**RN11**	**RN12**	**RN13**	**RN14**	**RN15**
UMC U5S	Installed	Not installed	Not installed	Not installed	Not installed
CX486DX	Not installed	Installed	Installed	Not installed	Not installed
AM486DX	Not installed	Not installed	Not installed	Installed	Installed
(SL)AM486DX(SV8B)	Not installed	Not installed	Not installed	Installed	Installed
(SL)AM486DX(SV8T)	Not installed	Not installed	Not installed	Installed	Installed
80486DX	Not installed	Not installed	Not installed	Installed	Installed
CX486DX2	Not installed	Installed	Installed	Not installed	Not installed
AM486DX2	Not installed	Not installed	Not installed	Installed	Installed
(SL)AM486DX2(SV8B)	Not installed	Not installed	Not installed	Installed	Installed
(SL)AM486DX2(SV8T)	Not installed	Not installed	Not installed	Installed	Installed
80486DX2	Not installed	Not installed	Not installed	Installed	Installed
CX486DX4	Not installed	Installed	Installed	Not installed	Not installed
(SL)CX486DX4	Not installed	Not installed	Not installed	Installed	Installed
AM486DX4	Not installed	Not installed	Not installed	Installed	Installed
(SL)AM486DX4(SV8B)	Not installed	Not installed	Not installed	Installed	Installed
(SL)AM486DX4(SV8T)	Not installed	Not installed	Not installed	Installed	Installed
80486DX4	Not installed	Not installed	Not installed	Installed	Installed
P24D	Not installed	Not installed	Not installed	Installed	Installed
P24T	Not installed	Not installed	Not installed	Installed	Installed
CX5X86	Not installed	Not installed	Not installed	Installed	Installed
AM5X86-P75	Not installed	Not installed	Not installed	Installed	Installed
AM5X86-P75+	Not installed	Not installed	Not installed	Installed	Installed
AM5X86-P90	Not installed	Not installed	Not installed	Installed	Installed
Note: RN11 is not present on Ver. 2 Ver. 2 does not support the UMC U5S.					

CPU VOLTAGE SELECTION			
Voltage	**JP36**	**JP37**	**JP39**
3.45v	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
4v	Pins 2 & 3 closed	Pins 1 & 2 closed	Pins 2 & 3 closed
5v	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 1 & 2 closed

DMA CHANNEL SELECTION		
Channel	**JP8**	**JP9**
1	Pins 1 & 2 closed	Pins 1 & 2 closed
3	Pins 2 & 3 closed	Pins 2 & 3 closed

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