

This document is for the full-sized (13.3" x 12.025") 80486DX-33, 80486DX2-50, and 80486DX2-66 EISA motherboard. The part number for this board is 09-00173-xx.

Its identifying features are: an LED between expansion slots #5 and #6; eight 32-bit

EISA expansion slots; 4 sockets for SIMMs (four banks).

The EISA Slots are numbered 1, 7, 8, 2, 3, 4, 5, & 6. EISA Slots 7,8 are VESA Slots which

support Bus mastering VESA SCSI controllers only.

EISA slots 1 to 6 support EISA Bus mastering controllers.

The Bus clock speed EISA standard is fixed at 8.3MHz.

```

+=====+
+               +
+ MOTHERBOARD SWITCH SETTINGS +
+               +
+ *   Default setting   +
+=====+

```

```

1 Memory size (see below)
2 Memory size (see below)
3 Memory size (see below)
4 Memory size (see below)
5 Memory size (see below)

```

```

6 CPU Speed           33Mhz  On    / 25Mhz  Off
7 CPU Speed           33MHZ  Off   / 25Mhz  Off
8 Color video adapter *On
  Mono video adapter  Off

```

DIP switch settings for memory size

```

=====
Memory           Banks           DIP Switch 2
-----
MB              0      1      2      3      S1     S2     S3     S4     S5
-----
1MB             256K
2MB             256K 256K
3MB             256K 256K 256K
4MB             256K 256K 256K 256K
4MB             1MB
5MB             256K 1MB
6MB             256K 256K 1MB
7MB             256K 256K 256K 1MB
8MB             1MB 1MB
9MB             256K 1MB 1MB
10MB            256K 256K 1MB 1MB
12MB            1MB 1MB 1MB
13MB            256K 1MB 1MB 1MB
16MB            1MB 1MB 1MB 1MB
16MB            4MB
20MB            1MB 4MB
24MB            1MB 1MB 4MB
28MB            1MB 1MB 1MB 4MB
32MB            4MB 4MB
36MB            1MB 4MB 4MB
40MB            1MB 1MB 4MB 4MB
48MB            4MB 4MB 4MB
52MB            1MB 4MB 4MB 4MB
64MB            4MB 4MB 4MB 4MB

```

In the table above, 256K indicates that (1) 256Kx36 SIMM is installed in the

bank,
1MB indicates that (1) 1Mx36 SIMM is installed in the bank, and 4MB indicates that
that
4Mx36 SIMM is installed in the bank. The above shows all of the possible memory configurations.

When installing more than 16MB of memory, BIOS relocation must be disabled. Bios relocation copies the video Bios (C0000-C7FFF) and the system ROM Bios (F0000-FFFF) into RAM. The motherboard adds 15MB to these addresses (F00000) to be able to differentiate between the ROM and RAM. Enabling the relocation feature causes the memory above 16MB to become non-contiguous and therefore inaccessible.

Micronics Computers has tested and verified the following memory brands:
Toshiba, Siemens, Mitsubishi, NEC

```
+=====+  
+                                     +  
+ MOTHERBOARD JUMPER SETTINGS +  
+                                     +  
+=====+
```

J1 Keyboard connector
Pin 1 - Keyboard clock
Pin 2 - Keyboard data
Pin 3 - no connector
Pin 4 - Ground
Pin 5 - +5 volts DC

J17 External 6-volt battery connector
Pin 1 - Battery Positive
Pin 2 - no connector
Pin 3 - Ground
Pin 4 - Ground

J22 External speaker
Pin 1 - Speaker
Pin 2 - no connector
Pin 3 - Ground
Pin 4 - +5 volts DC

J23 Keylock / Power LED
Pin 1 - Power LED signal
Pin 2 - no connector
Pin 3 - Ground
Pin 4 - Keyboard lock signal
Pin 5 - Ground

W5 Reset switch
Pin 1 - Signal
Pin 2 - Ground

W6 Turbo switch
Pin 1 - Signal
Pin 2 - Ground

W7 Turbo LED
Pin 1 - Signal
Pin 2 - Ground

J62 Floppy Controller IRQ 6, DMA CH 2, I/O 3F0-3F7H {AUTO DISABLE}

J30 IDE Interface IRQ 14, I/O 1F0-1F7h {AUTO DISABLE}

W36 IDE Hard Drive LED
 1 - Signal
 2 - GND
 3 - GND
 4 - Signal

J63 Serial A 16450 UART IRQ 4 COM 1 or COM3

J64 Serial B 16450 UART IRQ 3 COM 2 or COM4

{ A 16550 UART is present only if the Super I/O Chip is National PC87312 }

J16 Parallel Port connector IRQ 7, @3BCh or @378h

W16 Printer Port mode
 Pin 2-3 - Output Mode
 Pin 1-2 - Input Mode {scanner}

CPU Clock Speed	W54	W55	SW2 #6	SW2 #7	
25Mhz	ON	ON	OFF	OFF	
33Mhz	ON	OFF	ON	OFF	
PQFP i486SX Surface Mounted	ZIF Socket		W50	W66	W67
None	i486SX		1-2	2-3	3-4
None	i486DX /DX2		2-3	1-2 & 3-4	1-2
i486SX	None		1-2	2-3	3-4
i486SX	i487SX		1-2	1-2 & 3-4	3-4
i486SX	i486DX /DX2		2-3	1-2 & 3-4	1-2
i486SX	OverDRIVE		1-2	1-2 & 3-4	2-3

W68 When Local Bus Master Controllers are installed {VL SCSI},
 jumper W68 must be placed on Pins 1-2 to support local bus DMA.

Default 2-3

W69 Write protect Flash BIOS programing : W69 - open
 Update Flash BIOS Programming : W69 - installed

W65 BIOS Recovery {DO NOT MOVE ! Removing this jumper will erase the BIOS !}

Cache configuration
 Direct Mapped Write Through
 =====

Cache	W20	W21	W52	W44
-----	-----	-----	-----	-----
64K	N/C	N/C	N/C	2-3
256K	1-2	1-2	1-2	1-2

N/C = Not Connected