

DTK Computers

Technical Information Sheet for PEM2500

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S=shorted, 0=open

DIP switch 1=on 0=off

Utility Diskette is UTILDSK3.1_0

Uses 32bit Memory Board PEI-306

Total 32bit memory SW1 1,2,3

MB	1	2	3
1,2	1	1	1
3,4	1	1	0
5,6	0	1	1
7,8	0	1	0
9,10,11,12	0	0	1
13,14,15,16	0	0	0

J1:Keyboard lock

<1> Power LED
<2> Key
<3> Ground
<4> Keyboard inhibit
<5> Ground

J3:Speaker connector

<1> Speaker
<2> N.C.
<3> Ground
<4> Vcc

W1-W6:SIMM Bank #

1-2 S SIMM's are Bank 0
2-3 S SIMM's are Bank 1

W7:Bank 0 DRAM type

1-2 S 1mBIT
2-3 S 256kbit

W9-10:Cache Size

1-2 S 64K
2-3 S 256K

W12:16bit Adapter Wait State

1-2 S 3 WS
2-3 S 1 WS

W14:Coprocessor Select

S Not Installed
0 Installed

J8:Power Connector

MotherBoard Total Memory SW1 4,5

4	5	Memory Bank 0	Bank 1
1	1	2MB	1MB
1	0	4MB	4MB
0	1	5MB	1MB
0	0	8MB	4MB

Video Selection SW1 6

SW1-6 Selection
1 Color
0 Monochrome

J2:Reset Switch

<1> Hardware Reset
<2> Ground

J4:Turbo LED

<1> LED +
<2> LED -

J5:Turbo Switch Connector

1-2 S 10 Mhz
2-3 S Keyboard Control
No Cap 25 MHz always

W8:Bank 1 DRAM type

1-2 S 1Mbit
2-3 S 256kbit

W11:8 bit Adapter Wait States

1-2 S 7 WS
2-3 S 5 WS

W13:DMA&I/O Bus Clock Select

1-2 S 6Mhz DMA 12MHz Bus
2-3 S 3Mhz DMA 6MHz Bus

<1> +5VDC	<7> Ground
<2> +5VDC	<8> Ground
<3> +5VDC	<9> -12VDC
<4> -5VDC	<10> +12VDC
<5> Ground	<11> +5VDC
<6> Ground	<12> Power Good

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RAM Installation

RAM Size	DRAM Type		W1~W6	SW1						
	Bank 0	Bank 1		1	2	3	4	5	W7	W8
1MB	44256x8+41256x4	none	2-3	1	1	1	1	1	2-3	2-3
	256Kbitx4 SIP	none	1-2	1	1	1	1	1	2-3	2-3
2MB	44256x8+41256x4	44256x8+41256x4	2-3	1	1	1	1	1	2-3	2-3
	44256x8+41256x4	256Kbitx4 SIP	2-3	1	1	1	1	1	2-3	2-3
	256Kbitx4 SIP	44256x8+41256x4	1-2	1	1	1	1	1	2-3	2-3
4MB	41100x36	none	2-3	1	1	0	1	0	1-2	1-2
	1Mbitx4 SIP	none	1-2	1	1	0	1	0	1-2	1-2
5MB	44256x8+41256x4	1Mbitx4 SIP	2-3	0	1	1	0	1	2-3	1-2
8MB	1Mbitx4 SIP	1Mbitx4 SIP	2-3	0	1	0	0	0	1-2	1-2