

DTK Computers

Technical Information Sheet for PKM0033S

S=shorted, 0=open

DIP switch 1=on 0=off

J1:Reset Switch
0 Normal operation
S Reset

J5:Turbo Switch Connector
1-2 S Normal (AT) Speed
2-3 S Turbo Mode (default)

J2:Turbo LED
<1> Cathode
<2> + Anode

J6:Green PC Break Switch
J6 when temporarily shorted
toggles the system suspend
feature on and off

J3:Keyboard lock
<1> Power LED
<2> Not used
<3> Ground
<4> Keyboard inhibit
<5> Ground

J7:Hard Disk LED Connector
<1> + Anode
<2> - Cathode
<3> - Cathode
<4> + Anode

J4:Speaker Connector
<1> Speaker
<2> Not Used
<3> Ground
<4> VCC

J8:External Battery
<1> VDD (6V)
<2> Not Used
<3> Ground
<4> Ground

I/O Connectors

J12: On Board PCI IDE 0 HDD

J18: On Board FDD

J13: On Board PCI IDE 1 HDD

J19: Keyboard

J14: On Board COM1

PIN

J15: On Board COM2

<1> Keyboard Clock

<2> Keyboard Data

J16: On Board Game Port

<3> Spare

<4> Ground

J17: On Board Parallel Port

<5> +5V DC

J20:Power Connector

<1> Power Good

<7> Ground

<2> +5VDC

<8> Ground

<3> +12VDC

<9> -5VDC

<4> -12VDC

<10> +5VDC

<5> Ground

<11> +5VDC

<6> Ground

<12> +5VDC

CPU Type Selection

P24T

S4: 2-3 JP4: OFF JP6: 1-2 JP9 : 2-3 JP12: OFF JP15: 2-3
S5: 2-3 JP5: OFF JP7: 1-2 JP10: OFF JP13: 1-2 JP16: 3-4
S6: 2-3 JP8: 1-2 JP11: OFF JP14: 1-2,3-4 JP17: 1-2

P24D

S4: 2-3 JP4: OFF JP6: 1-2 JP9 : 2-3 JP12: 2-3 JP15: 3-4
S5: 2-3 JP5: 1-2 JP7: 1-2 JP10: OFF JP13: 4-5 JP16: 1-2,3-4
S6: 2-3 JP8: 1-2 JP11: 1-2 JP14: 1-2,3-4 JP17: OFF

P24C (DX4) (INTEL) (3.3V) (OPTIONAL)

S4: 1-2 JP4: OFF JP6: 1-2 JP9 : 2-3 JP12: 1-2 JP15: 3-4
S5: OFF JP5: 2-3 JP7: OFF JP10: OFF JP13: 4-5 JP16: 3-4
S6: OFF JP8: 2-3 JP11: OFF JP14: 1-2,3-4 JP17: OFF

SLE 486 DX/DX2

S4: 2-3 JP4: OFF JP6: 1-2 JP9 : 2-3 JP12: 1-2 JP15: 3-4
S5: 2-3 JP5: OFF JP7: OFF JP10: OFF JP13: 4-5 JP16: 3-4
S6: 2-3 JP8: 2-3 JP11: OFF JP14: 1-2,3-4 JP17: OFF

SLE 486SX

S4: 2-3 JP4: OFF JP6: 1-2 JP9 : 2-3 JP12: 1-2 JP15: OFF
S5: 2-3 JP5: OFF JP7: OFF JP10: OFF JP13: 4-5 JP16: 3-4
S6: 2-3 JP8: 2-3 JP11: OFF JP14: 2-3 JP17: OFF

486DX/DX2

S4: 2-3 JP4: OFF JP6: OFF JP9 : OFF JP12: OFF JP15: 3-4
S5: 2-3 JP5: OFF JP7: OFF JP10: OFF JP13: OFF JP16: OFF
S6: 2-3 JP8: 1-2 JP11: OFF JP14: 1-2,3-4 JP17: OFF

486SX

S4: 2-3 JP4: OFF JP6: OFF JP9 : OFF JP12: OFF JP15: OFF
S5: 2-3 JP5: OFF JP7: OFF JP10: OFF JP13: OFF JP16: OFF
S6: 2-3 JP8: 2-3 JP11: OFF JP14: 2-3 JP17: OFF

AM486DX4 (3.45V) (OPTIONAL) (A80486DX4-100NV8T)

S4: OFF JP4: OFF JP6: 1-2 JP9 : 2-3 JP12: 1-2 JP15: 3-4
S5: 1-2 JP5: 1-2 JP7: OFF JP10: OFF JP13: 4-5 JP16: 3-4
S6: OFF JP8: 2-3 JP11: OFF JP14: 1-2,3-4 JP17: OFF

AM486DX2(3.45V) (OPTIONAL) (A80486DX2-XXNV8T)

S4: OFF JP4: OFF JP6: 1-2 JP9 : 2-3 JP12: 1-2 JP15: 3-4
S5: 1-2 JP5: 2-3 JP7: OFF JP10: OFF JP13: 4-5 JP16: 3-4
S6: OFF JP8: 2-3 JP11: OFF JP14: 1-2,3-4 JP17: OFF

ENHANCED AM486DX2 (3.45V) (OPTIONAL) (A80486DX2-XX5V8B)

S4: OFF JP4: OFF JP6: 1-2 JP9 : 2-3 JP12: 1-2 JP15: 3-4
S5: 1-2 JP5: 1-2 JP7: OFF JP10: 2-3 JP13: 4-5 JP16: 3-4
S6: OFF JP8: 2-3 JP11: OFF JP14: 1-2,3-4 JP17: OFF

ENHANCED AM486DX4 (3.45V) (OPTIONAL) (A80486DX4-1005V8B)

S4: OFF JP4: OFF JP6: 1-2 JP9 : 2-3 JP12: 1-2 JP15: 3-4
 S5: 1-2 JP5: 1-2 JP7: OFF JP10: OFF JP13: 4-5 JP16: 3-4
 S6: OFF JP8: 2-3 JP11: OFF JP14: 1-2,3-4 JP17: OFF

CX486S2

S4: 2-3 JP4: 1-2 JP6: 1-2 JP9 : 1-2 JP12: OFF JP15: 3-4
 S5: 2-3 JP5: OFF JP7: 2-3 JP10: OFF JP13: 2-3 JP16: 2-3
 S6: 2-3 JP8: 2-3 JP11: OFF JP14: 1-2,3-4 JP17: 2-3

CX486DX/DX2

S4: 2-3 JP4: OFF JP6: 1-2 JP9 : 1-2 JP12: OFF JP15: 3-4
 S5: 2-3 JP5: OFF JP7: 2-3 JP10: OFF JP13: 2-3 JP16: 2-3
 S6: 2-3 JP8: 2-3 JP11: OFF JP14: 1-2,3-4 JP17: 2-3

CX486DX2-V66 (3.6V) (OPTIONAL)

S4: OFF JP4: OFF JP6: 1-2 JP9 : 1-2 JP12: OFF JP15: 3-4
 S5: OFF JP5: OFF JP7: 2-3 JP10: OFF JP13: 2-3 JP16: 2-3
 S6: 1-2 JP8: 2-3 JP11: OFF JP14: 1-2,3-4 JP17: 2-3

CX486DX2-V80 (4.0V) (OPTIONAL)

S4: OFF JP4: OFF JP6: 1-2 JP9 : 1-2 JP12: OFF JP15: 3-4
 S5: OFF JP5: OFF JP7: 2-3 JP10: OFF JP13: 2-3 JP16: 2-3
 S6: OFF JP8: 2-3 JP11: OFF JP14: 1-2,3-4 JP17: 2-3

UMC U5SX-486

S4: 2-3 JP4: OFF JP6: 2-3 JP9 : OFF JP12: OFF JP15: 1-2,3-4
 S5: 2-3 JP5: OFF JP7: OFF JP10: OFF JP13: OFF JP16: OFF
 S6: 2-3 JP8: 2-3 JP11: OFF JP14: 1-2,3-4 JP17: 3-4

CPU Clock Frequency Config

O=OPEN C=CLOSED
 MHz S 1 S 2 S 3 JP3 JP18
 20 0 0 0 1-2 1-2
 25 C 0 0 1-2 1-2
 33 C C C 1-2 1-2
 40 C C 0 1-2 1-2
 50 0 0 C 2-3 1-2

Flash ROM Jumpers

Select	JP34	JP35
Normal	2-3	2-3
5V ROM	2-3	1-2
12V ROM	1-2	1-2

Parallel Port

JP51 Parallel Port IRQ

IRQ7: 1-2
 IRQ5: 2-3

Setting	JP52	JP53	JP36	JP37
Standard	1-2	1-2	OFF	OFF
EPP/ECP	1-2	2-3	1-3	1-3
SPP/EPP	2-3	1-2	OFF	OFF
EXT2FDD	2-3	2-3	OFF	OFF

JP33: Monitor Setting

closed Color
 Open Monochrome

JP38: CMOS RAM Battery Setting

Normal operation 1-2
 Discharge CMOS 2-3

Cache Size Selection

JP19,JP24,JP25,JP26 Cache

| JP20,JP21,JP22,JP27 Tag RAM

Jumper Settings					Jumper Settings				
Size	JP 19	JP 24	JP 25	JP 26	Size	JP 20	JP 21	JP 22	JP 27
64kb	1-2	1-2	off	off	64kb	1-2	2-3	1-2	2-3
128kb	1-2	2-3	off	1-2	128kb	2-3	1-2	1-2	2-3
256kb d	1-2	2-3	off	2-4	256kb d	2-3	2-3	2-3	2-3
256kb s	1-2	2-3	off	1-2,3-4	256kb s	2-3	1-2	2-3	2-3
512kb d	2-3	2-3	off	2-3,4-5	512KB d	2-3	2-3	2-3	2-3
512kb s	2-3	2-3	1-2	1-2,4-5	512kb s	2-3	1-2	2-3	1-2
1024kb	2-3	2-3	2-3	2-3,4-5	1024kb	2-3	2-3	2-3	1-2

Memory Installation

Four 72 pin simm sockets are provided in 4 Banks. User can install

256Kx36, 512Kx36, 1Mx36, 2Mx36, 4Mx36, 8Mx36, or 16Mx36 SIMMs. For best performance 70ns SIMMS are required.

BANK 0	BANK 1	BANK 2	BANK 3	TOTAL	BANK 0	BANK 1	BANK 2	BANK 3	TOTAL
1MB	---	---	---	1MB	4MB	8MB	8MB	8MB	28MB
1MB	1MB	---	---	2MB	16MB	16MB	---	---	32MB
2MB	---	---	---	2MB	32MB	---	---	---	32MB
1MB	1MB	2MB	---	4MB	8MB	8MB	16MB	---	32MB
2MB	2MB	---	---	4MB	8MB	8MB	8MB	8MB	32MB
4MB	---	---	---	4MB	2MB	2MB	16MB	16MB	36MB
1MB	4MB	---	---	5MB	4MB	16MB	16MB	---	36MB
1MB	1MB	4MB	---	6MB	4MB	32MB	---	---	36MB
2MB	4MB	---	---	6MB	4MB	4MB	16MB	16MB	40MB
1MB	1MB	2MB	4MB	8MB	4MB	4MB	32MB	---	40MB
4MB	4MB	---	---	8MB	8MB	8MB	8MB	16MB	40MB
8MB	---	---	---	8MB	16MB	16MB	16MB	---	48MB
1MB	1MB	4MB	4MB	10MB	16MB	32MB	---	---	48MB
2MB	2MB	4MB	4MB	12MB	8MB	8MB	16MB	16MB	48MB
4MB	4MB	4MB	---	12MB	8MB	8MB	32MB	---	48MB
4MB	8MB	---	---	12MB	16MB	16MB	16MB	16MB	64MB
4MB	4MB	4MB	4MB	16MB	64MB	---	---	---	64MB
8MB	8MB	---	---	16MB	16MB	16MB	32MB	---	64MB
16MB	---	---	---	16MB	32MB	32MB	---	---	64MB
4MB	4MB	8MB	---	16MB	1MB	64MB	---	---	65MB
1MB	16MB	---	---	17MB	4MB	64MB	---	---	68MB
1MB	1MB	16MB	---	18MB	4MB	32MB	32MB	---	68MB
2MB	16MB	---	---	18MB	4MB	4MB	64MB	---	72MB
2MB	2MB	16MB	---	20MB	4MB	4MB	32MB	32MB	72MB
4MB	16MB	---	---	20MB	16MB	64MB	---	---	80MB
4MB	8MB	8MB	---	20MB	16MB	32MB	32MB	---	80MB
2MB	2MB	4MB	16MB	24MB	16MB	16MB	64MB	---	96MB
4MB	4MB	16MB	---	24MB	16MB	16MB	32MB	32MB	96MB
8MB	8MB	8MB	---	24MB	32MB	32MB	32MB	---	96MB

4MB	4MB	8MB	8MB	24MB		64MB	64MB	---	---	128MB
8MB	16MB	---	---	24MB		32MB	32MB	32MB	32MB	128MB