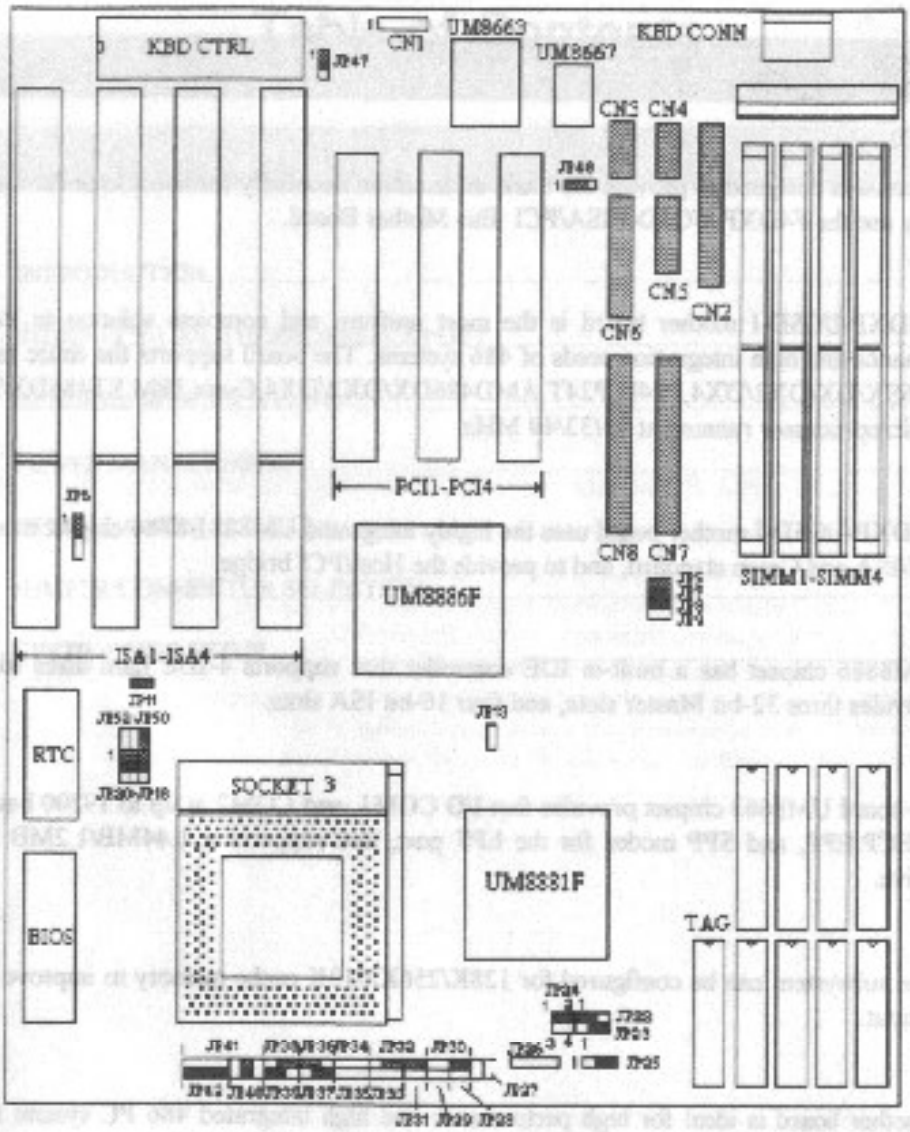
Layout of the F4DXP-UC5D-I



V JUMPERS/CONNECTORS SELECTION

Jumpers on the system board provide information to your operating system about installed options and system settings. You need to configure jumpers when you install the CPU, select cache size, or clear CMOS memory.

Connectors attach control panel switches and indicators, as well as the speaker, keyboard and power supply.

JUMPERS

CPU (MICROPROCESSOR) INSTALL SELECTION

Set Jumpers according to your CPU type as shown below.

Intel 486 CPU

CPU Type	JP32	JP34	JP35	JP36	JP39	JP40	JP41	JP42
SX(PGA)	Open	Open	Open	Open	Open	1-2	Open	2-3
*DX/DX2	Open	Open	Open	Open	Open	1-2	Open	1-2,3-4
DX4	2-3,4-5	Open	Open	1-2	1-2	3-4	Open	1-2,3-4
DX/DX2-SL	2-3,4-5	Open	Open	1-2	1-2	3-4	Open	1-2,3-4
P24D	2-3,4-5	Open	Open	1-2	1-2	3-4	Open	Open
P24T	2-3,4-5	2-3	1-2	1-2	1-2	3-4,5-6	2-3	1-2

CPU Type	JP22	JP23	JP27	JP28	JP29	JP30	JP31	JP37
*DX/DX2	1-2	1-2	Open	Open	Open	3-4	Open	2-3
DX4	1-2	1-2	Open	Open	Open	3-4	Open	2-3
DX/DX2-SL	1-2	1-2	Open	Open	Open	3-4	Open	2-3
P24D	1-2	1-2	Open	1-2	1-2	3-4	1-2	2-3
P24T	1-2	1-2	Open	Open	Open	2-3	Open	2-3

AMD 486 CPU

CPU Type	JP32	JP34	JP35	JP36	JP39	JP40	JP41	JP42
DX/DX2	Open	Open	Open	Open	Open	1-2	Open	1-2,3-4
DX4	2-3,4-5	Open	Open	1-2	1-2	3-4	Open	1-2,3-4
DX/DX2-SL	2-3,4-5	Open	Open	1-2	1-2	3-4	Open	1-2,3-4

CPU Type	JP22	JP23	JP27	JP28	JP29	JP30	JP31	JP37
DX/DX2	1-2	2-3	Open	Open	Open	3-4	Open	2-3
DX4	1-2	2-3	Open	Open	Open	3-4	Open	2-3
DX/DX2-SL	1-2	2-3	Open	Open	Open	3-4	Open	2-3

IBM,Cyrix,ST 486 CPU

CPU Type	JP32	JP34	JP35	JP36	JP39	JP40	JP41	JP42
DX	1-2,3-4	1-2	2-3	2-3	1-2	3-4	2-3	1-2,3-4
DX2/DX4	2-3,4-5	1-2	2-3	1-2	1-2	3-4	Open	1-2,3-4

CPU Type	JP22	JP23	JP27	JP28	JP29	JP30	JP31	JP37
DX	2-3	1-2	Open	Open	Open	3-4	Open	2-3
DX2/DX4	2-3	1-2	1-2	Open	Open	3-4	Open	2-3

UMC 486 CPU

CPU Type	JP32	JP34	JP35	JP36	JP39	JP40	JP41	JP42
SX (U5)	Open	Open	Open	Open	2-3	1-2	3-4	2-3

CPU Type	JP22	JP23	JP27	JP28	JP29	JP30	JP31	JP37
SX (U5)	1-2	2-3	Open	Open	Open	1-2,3-4	Open	2-3

SYSTEM CLOCK SELECTION

Set Jumpers according to the speed of the CPU that is installed.

SPEED (MHz)	JP5	JP7	JP8
25	Open	Open	Close
*33	Close	Close	Close
40	Open	Close	Close
50	Close	Open	Open

CPU VOLTAGE JUMPER SETTING

This system board provided four different voltages for use with different CPUs. Set correct Jumper setting for your CPU's voltage.

CPU Voltage	JP18	JP19	JP20	JP50	JP51	JP52
5.0V	2-3	2-3	2-3	Open	Open	Open
*3.3V	1-2	1-2	1-2	Close	Open	Open
3.45V	1-2	1-2	1-2	Open	Close	Open
4.0V	1-2	1-2	1-2	Open	Open	Close

CACHE RAM SELECTION

The system board supports 128K,256K,512K of cache memory. You configure cache memory by installing 32K8,64K8 or 128K8 SRAM chip in socket U22-U25, U31-U34 and a 8K8, 32K8 or 64K8 SRAM chip in Tag socket U6. You then set Jumpers as below.

Cache Size	JP24	JP25	JP26	Data RAM	Tag RAM
128 KB (1 Bank)	Open	1-2	Open	32K8X4	8K8
256 KB (1 Bank)	1-2	1-2	1-2	64K8X4	32K8
*256KB (2 Banks)	1-2	2-3	Open	32K8X8	32K8
512KB (1 Bank)	1-2,3-4	1-2	1-2, 3-4	128K8X4	32K8

L1 CACHE MODE CONFIGURATIONS

	P24D, AMD-DX4 CPU L1 Cache
JP38	1-2 Write Through 2-3 Write Back

Other CPU open

DACK# and DRQ# SELECTION

When the on-board printer port is set to ECP, you should also set the DMA channel used by the ECP. The system board provides DRQ#1, 3 and DACK#1,3 for you to set. You must set the DRQ# and DACK# channels the same way.

DACK#	DRQ#	JP47	JP48
*1	*1	1-2	1-2
3	3	2-3	2-3

POWER SAVING SWITCH JUMPER

Attach a power saving switch to this Jumper. When the switch is pressed, the system goes immediately into suspend mode. Press any key the system wakes up. (You should enable the PMM to use this function)

JP13	*Open = Normal
	Close = Suspend

EXTERNAL BATTERY CONNECTOR

A battery must be used to remain the system board configuration in CMOS RAM. You can use either the on-board battery or an external battery. If you use the on-board battery you must short **JP49**. For an external battery, the battery's cable connector attaches to pin 1 and 4 of **CN1**. When U9 is using a 12887 chip, no external battery is needed.

You can also clear the system CMOS by shorting pin2-3 or pin 3-4 of the **JP6.**

JP6	*1-2	Normal
	2-3	Reset CMOS (When U9 is installing a 146818 chip)
	3-4	Reset CMOS (When U9 is installing a 12887 chip)

CONNECTORS

ON BOARD FLOPPY DISK DRIVE CONNECTOR

CN2 : FLOPPY DISK DRIVE CONTROLLER.

ON BOARD MULTI I/O SERIAL PORT

CN3 : 16550 COMPATIBLE ENHANCED SERIAL PORT. (COM1/3)

CN4 : 16550 COMPATIBLE ENHANCED SERIAL PORT. (COM2/4)

CN5 : GAME PORT.

CN6 : MULTI-MODE HIGH PERFORMANCE PARALLEL PORT

ON BOARD IDE CONTROLLER CONNECTORS

CN7 : PCI PRIMARY IDE HARD DISK CONNECTOR.

CN8 : PCI SECONDARY IDE HARD DISK CONNECTOR.

CN9 : KEYBOARD LOCK CONNECTOR.

CN10 : SPEAKER CONNECTOR.

CASE CONNECTORS

JP44 : Hardware Turbo switch
JP45 : Hardware RESET switch
LED1 : Turbo LED
D9 : Suspend Mode LED

* **Factory Default Setting**

(F4DXP-UC5D-I) PCI MAINBOARD
CPU(MICROPROCESSOR) INSTALL SELECTION

CAUTION PLEASE CHECK VOLTAGE OF CPU FIRST **CAUTION**

JUMPERS	Cyrix cx486 100mhz 3.45v	Cyrix cx5x86 100mhz 3.45v	Cyrix cx486 80mhz 4.0v	Cyrix cx486 xxmhz 3.45v	Ibm 486 xxmhz 3.3v	Intel I486dx xxmhz 5.0v	Amd 486dx xxxmhz 3.3v	Umc 486SX xxmhz 5.0v
JP22	2-3	1-2	2-3	2-3	2-3			1-2
JP23	1-2	1-2	2-3	2-3	2-3			2-3
JP27	open	close	open	open	open	open	open	open
JP28	open	open	open	open	open	close	close	open
JP29	open	close	open	open	open	close	close	open
JP30	3-4	3-4	3-4	3-4	3-4	3-4	3-4	1-2
JP31	open	close	open	open	open	close	close	open
JP32	1-2,3-4	2-3,4-5	1-2,3-4	1-2,3-4	1-2,3-4	2-3,4-5	2-3,4-5	open
JP33	open	open	open	open	open	open	open	open
JP34	1-2	open	1-2	1-2	1-2	open	open	open
JP35	2-3	open	2-3	2-3	2-3	open	open	open
JP36	2-3	1-2	2-3	2-3	2-3	1-2	1-2	open
JP37	2-3	open	2-3	2-3	2-3	2-3	2-3	2-3
JP38	2-3	2-3	2-3	2-3	2-3	2-3	1-2	2-3
		jp38 for amd dx4 cpu					2-3	
JP39	1-2	1-2	1-2	1-2	1-2	1-2	1-2	2-3
JP40	1-2	3-4	3-4	3-4	3-4	1-2	1-2	1-2
JP41	2-3	open	2-3	2-3	2-3	open	open	3-4
JP42	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4	2-3

CPU VOLTAGE	JP18	JP19	JP20	JP50	JP51	JP52
3.3 volt	1-2	1-2	1-2	close	open	open
* 3.45volt	1-2	1-2	1-2	open	close	open
4.0 volt	1-2	1-2	1-2	open	open	close
5.0 volt	2-3	2-3	2-3	open	open	open

warning!, pin 1 from jp18-jp20 is located closest to tbled and pwrled conn.

****
all in this sheet mentionned settings REPLACE original manual settings!
AND make the original setting INVALID!
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25aug95