

Installation Procedures

The mainboard has several user-adjustable jumpers on the board that allow you to configure your system to suit your requirements. This chapter contains information on the various jumper settings on your mainboard.

To set up your computer, you must complete the following steps:

- Step 1 - Set system jumpers
- Step 2 - Install memory modules
- Step 3 - Install the Central Processing Unit (CPU)
- Step 4 - Install expansion cards
- Step 5 - Connect ribbon cables, cabinet wires, and power supply
- Step 6 - Set up BIOS software
- Step 7 - Install supporting software tools



WARNING: Excessive torque may damage the mainboard. When using an electric screwdriver on the mainboard, make sure that the torque is set to the allowable range of 5.0 ~ 8.0kg/cm.

Mainboard components contain very delicate Integrated Circuit (IC) chips. To prevent static electricity from harming any of the sensitive components, you should follow the following precautions whenever working on the computer:

1. Unplug the computer when working on the inside.
2. Hold components by the edges and try not to touch the IC chips, leads, or circuitry.
3. Wear an anti-static wrist strap which fits around the wrist.
4. Place components on a grounded anti-static pad or on the bag that came with the component whenever the components are separated from the system.

1). Set System Jumpers



NOTE: Users are not encouraged to change the jumper/switch settings not listed in this manual. Changing the settings improperly may adversely affect system performance.

Clear CMOS

Chapter 2 Installation Procedures

The CMOS RAM is powered by the onboard button cell battery. To clear the RTC data:

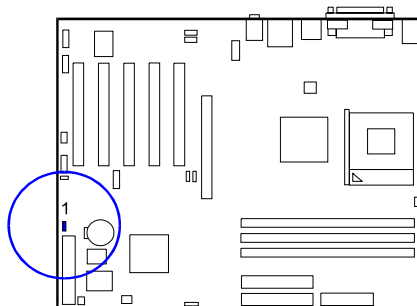
- (1) Turn off your computer;
- (2) open the system case, disconnect the ATX power cable;
- (3) place the jumper cap onto the pinpair 2-3 at least 6 seconds to enable CMOS clearance;
- (4) place the jumper cap onto the pinpair 1-2 to disable the effect of CMOS clearance;
- (5) connect the ATX power cable; close the system case;
- (6) turn on your computer until *CMOS checksum error* appears;
- (7) hold down the *Delete* key when boots;
- (8) enter the BIOS Setup to re-enter user preferences.



**Disable
(Default)**

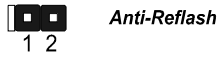


**Enable
(Clear CMOS)**



BIOS Anti-Flash Protect

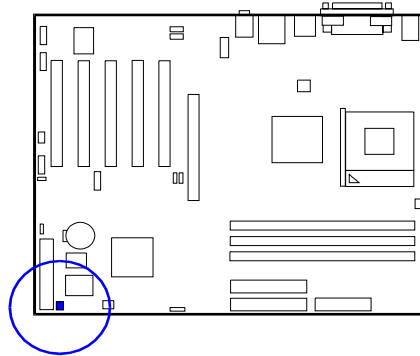
The jumper helps users to prevent the BIOS ROM from being overwritten by mistake.



Anti-Flash



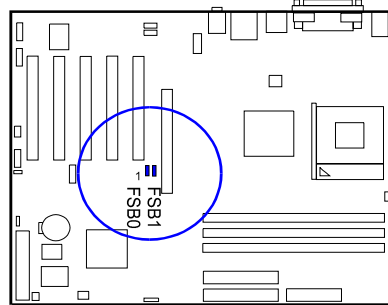
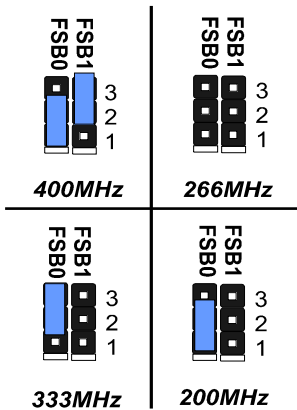
Reflash Allowed



**Chapter 2
Installation
Procedures**

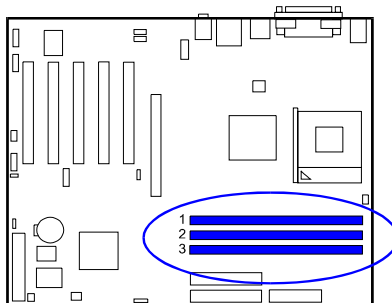
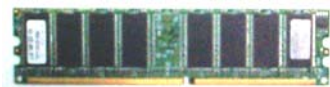
FSB Frequency Select

These two jumpers allow you to select the front side bus frequency of the board.



2). Install Memory Modules

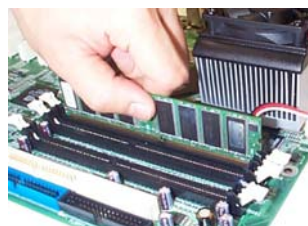
1. Locate DDR DIMM sockets on the mainboard.



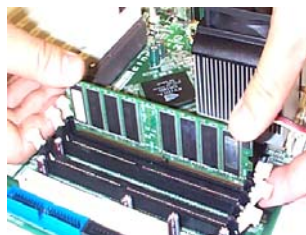
NOTE:

If you use PC3200 DDR DIMM, only DIMM1 and DIMM2 sockets are allowed.

2. Install DDR DIMM straight down into the socket 1 using both hands, then socket 2, and so forth.



3. The clip on both ends of the socket will close up to hold the DDR DIMM in place when the DDR DIMM reaches the socket bottom.



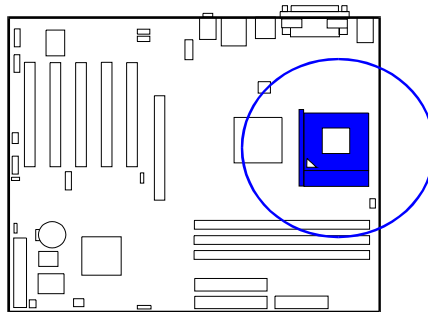
3). Install the CPU

The mainboard has built-in Switching Voltage Regulator to support CPU Vcore autodetection. That is, it has the ability to detect and recognize the CPU voltage, clock, ratio. Users can view the report about CPU frequency through *Frequency / Voltage Control* of the BIOS Setup Screen.

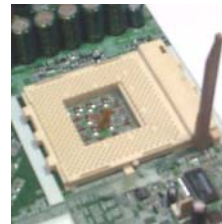
**CAUTION:**

1. The heat sink and fan you installed must be approved by AMD.
2. The mainboard must be placed on a solid place to avoid shaking while install the heat sink and fan on the board.
3. The heat sink must be contact with the CPU top tightly.
4. Never run the processor without the heat sink properly and firmly attached. **PERMANENT DAMAGE WILL RESULT!**

The procedures below shows you how to install your CPU and its fan and heatsink. First of all, locate the CPU socket on this mainboard.



1. Swing the lever upward to 90 degree.
2. Install the CPU and make sure the the pin 1 orientation by aligning the socket corner marking with the socket corner closest to the lever tip. Do not insert the CPU by force. Make sure the processor is fully inserted into the socket on all sides.



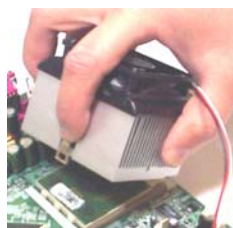
Apply some thermal materials, such as paste or tape, on the CPU top; and install a fan with heatsink that approved by CPU manufacturer to avoid CPU damage. For detail information, please refer to the CPU manufacturer website.



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Affix the CPU by pressing the lever downward and locking it beside the socket.

3. Place the fan with heatsink on the CPU top and press down two plastic clips to hook up with the holes on the retention module on two sides.



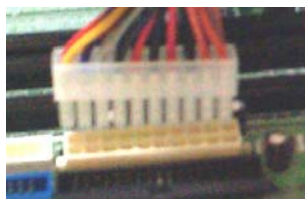
4. Press down the white bar on each clip to fasten the fan set on the retention module.

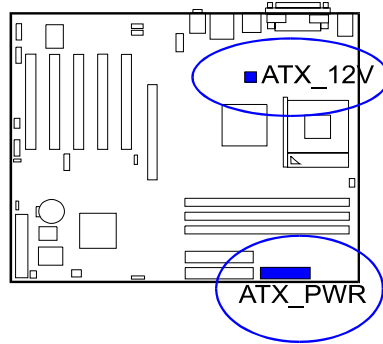


Connect ATX Power

The 20-hole power plug (top right) is connected to the ATX power 20-pin pinheaders. The 4-hole 12V power plug (bottom right) is inserted in the ATX_12V power connector.

The plug from the power supply will only insert in one orientation because of the different hole sizes. Find the proper orientation and push down firmly making sure that the pins are aligned.





NOTE: Users The CPU installing procedures should be:

1. Insert the CPU (with its fansink and retention module) on the socket.
 2. Connect the 4-pin plug of the power supply
 3. Connect the 20-pin plug of the power supply.
- To remove the processor, please do it in reverse order.

4). Install Expansion Cards

This section describes how to connect an expansion card to one of your system expansion slots.

Expansion cards are printed circuit boards that, when connected to the mainboard, increase the capabilities of your system.

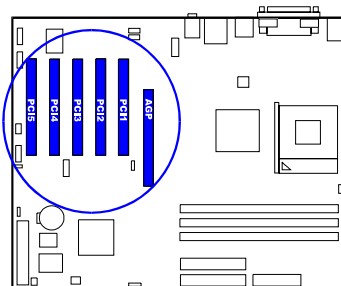
For example, expansion cards can provide video and sound capabilities. The mainboard features one AGP and five PCI bus expansion slots.



CAUTION:

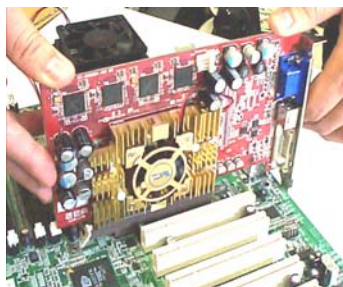
1. Make sure to unplug the power supply when adding or removing expansion cards or other system components. Failure to do so may cause severe damage to both the mainboard and expansion cards.
2. Always observe static electricity precautions.
3. Please read Handling Precautions at the start of this manual.

1. Select an available expansion slot.



2. Remove the corresponding slot cover from the computer chassis. Unscrew the mounting screw that secures the slot cover and pull the slot cover out from the computer chassis. Keep the slot cover mounting screw nearby.

3. Push the card firmly into the slot. Push down on one end of the expansion card, then the other. Use this rocking motion until the card is firmly seated inside the expansion slot. Secure the card with the screw removed in Step 2.

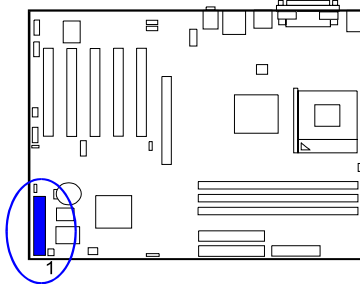


5). Connect Devices

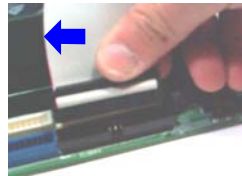
Floppy Diskette Drive Connector

This connector provides the connection with your floppy disk drive.

Insert the floppy ribbon cable
(below) onto the floppy connector.



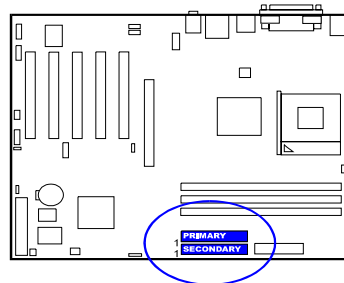
The colored stripe (indicated by the
arrow head, right) of the ribbon cable
must be the same side with the Pin 1.



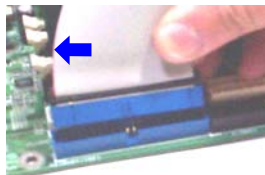
IDE Device Connectors

The two connectors, PRIMARY
and SECONDARY, are used for
your IDE hard disk drives, CD drives,
LS-120 drives, or IDE ZIP drives.

Insert the floppy ribbon cable
(below) onto the floppy connector.

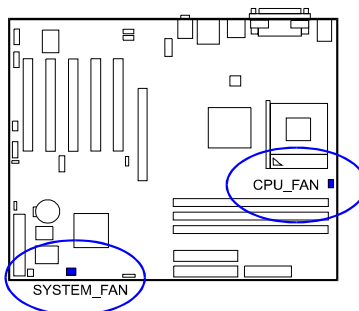
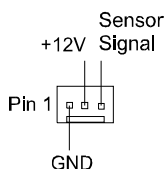


The colored stripe (indicated by the
arrow head, right) of the ribbon cable
must be the same side with the Pin 1.



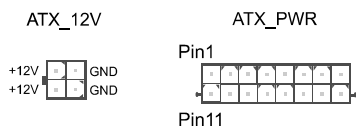
Fan Connectors

The two connectors, CPU_FAN, SYSTEM_FAN are linked to the CPU fan, case fan, respectively.

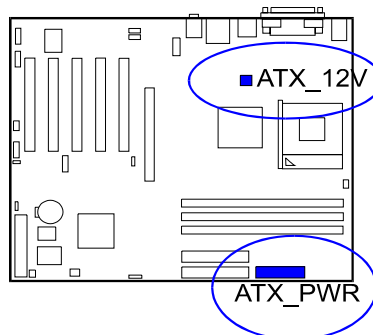


Power Connectors

The 20-pin male block connector is connected to the ATX power supply. The 4-pin male block connector is for the ATX_12V power use. All two connectors are linked with your ATX power supply. The plug from the power supply will only insert in one orientation because of the different hole sizes. Find the proper orientation and push down firmly making sure that the pins are aligned.

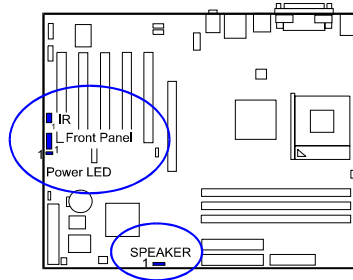


PIN	DEFINITION	PIN	DEFINITION
1	+3.3V	11	+3.3V
2	+3.3V	12	-12V
3	GND	13	GND
4	+5V	14	PS_ON
5	GND	15	GND
6	+5V	16	GND
7	GND	17	GND
8	PWR_GOOD	18	-5V
9	5V_SB	19	+5V
10	+12V	20	+5V

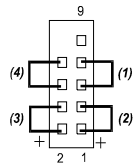


Front Panel Block, Power LED, IR, and Speaker Connector

This block connector includes the connectors for linking with Power LED (3-pin), HDD LED, power button, power/sleep/message waiting button, reset button on the front panel of the system case. Please identify polarities of plug wires for the case speaker and LEDs. Please ask vendor about this information when you buy them and install the system by yourself. The plug wires (next page) polarities of these buttons will not affect the function.



F. PNL
(Intel spec.)



IR
(Intel spec.)



SPK
(Speaker)



LED
(Power LED, 2/3 pins)



NOTE: Users that want to use IR port must adjust BIOS feature **UART Mode Select** to set COM2 at some IR mode upon your IR device.

(1) **Reset Switch** is connected to the reset button. Push this switch to reboot the system instead of turning the power button off and on.

(2) **HDD LED** is connected to the IDE device indicator. This LED will blink when the hard disk drives are activated.

(3) Power (Single and Dual) /Sleep LED

Please refer to the tables below for the representations of LED states.

There is another 3-Pin Power LED connector on board for some cases that with a 3-pin plug.

Single-Color (2, 3 Pins)

LED	Meaning	State
Off	Off	S4/S5
On	Full On	S0
Flash	Sleep	S1/S3

Dual-Color

LED	Meaning	State
Off	Off	S4/S5
Green	Full On	S0
Other Colors	Sleep	S1/S3

(4) **Power Button** is connected with power button. Push this switch allows the system to be turned on and off rather than using the power supply button.

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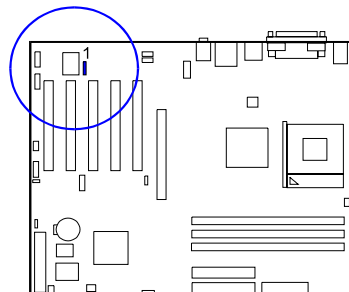
IR is a pinheader that is used for linking with your ID device to allow transmission of data to another system that also supports the IR feature.

Speaker is connected with the case speaker.

SPDIF_OUT Connector

It is used for audio output that with SPDIF spec.

Pin definitions: Pin1 is 5V, Pin2 is SPDIF_OUT signal, P3 is GND.

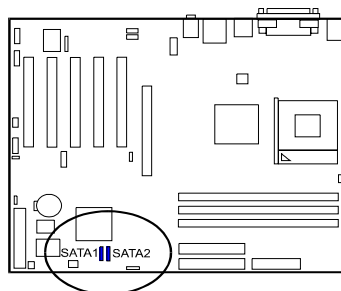


Serial ATA Connectors (KT-600 Pro only)

The 2 SATA connectors provide you with the connections to serial ATA devices that confirm to the Serial ATA specification. Serial ATA supports all ATA and ATAPI devices. The figures below left are two SATA cables (the top one is for power; the next one is for data). The data cable pin assignments of SATA connector.



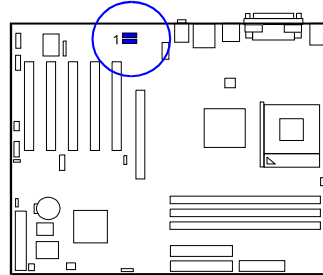
PIN	DEFINITION
1	GND
2	TXP
3	TXN
4	GND
5	RXN
6	RXP
7	GND



NOTE: Please read BIOS Setup, Integrated Peripherals, the features about SATA setting, for more information about the usage of the feature.

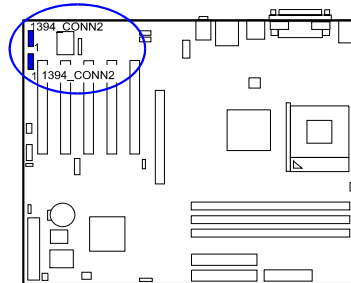
CD Audio-In Connectors

The two 1x4 connectors, CD_IN and AUX_IN, are for CD-ROM drive audio analog input use. The pin assignment are: Pin 1 is Left, Pin2 and 3 are GND, Pin 4 is Right.



1394 Connectors (optional)

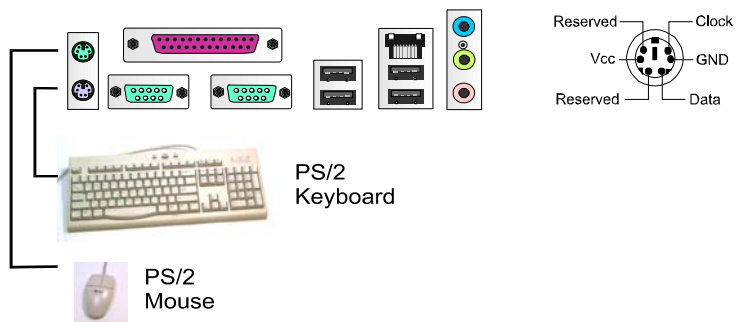
The 2 optional 1394 pinheaders on the board provides you with two connections with the peripherals which own 1394 connectors by an optional bracket with cable (see the figure below). The pin definitions of the 1394 pinheaders are listed below also.



PIN	DEFINITION
1	TA1+
2	TA1-
3	GND
4	GND
5	TB1+
6	TB1-
7	VCC
8	VCC
9	GND
10	NC

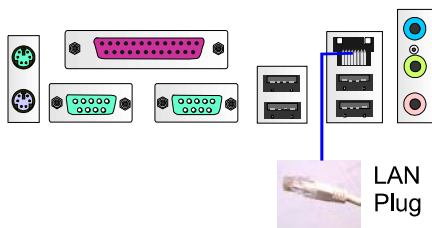
PS/2 Keyboard and Mouse Connector

These two 6-pin female (PS/2 keyboard is purple color and PS/2 mouse is green color) connectors are used for your PS/2 keyboard and PS/2 mouse.



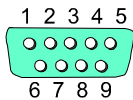
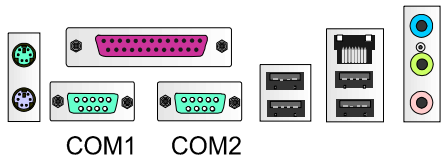
RJ45 LAN Connector

The LAN (RJ45 port) jack is used for the LAN cable plug.



Serial Port Connectors

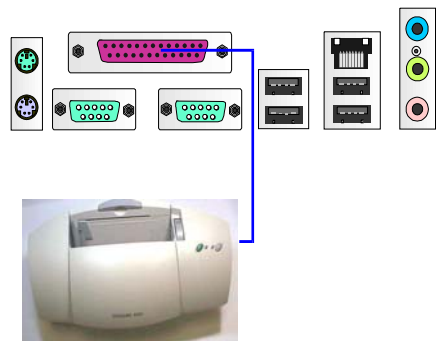
COM1/2 (9-pin D-sub male connector with teal color) allow you to connect with your devices that use serial ports, such as a serial mouse or an external modem.



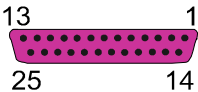
PIN	DEFINITION
1	DCD
2	SIN
3	SOUT
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

Printer Connector

This 25-pin D-Sub female burgundy-colored connector is attached to your printer.



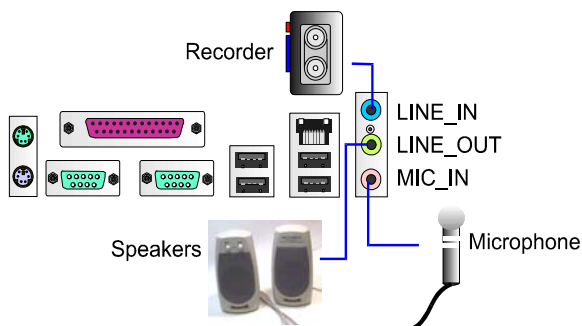
Printer



PIN	DEFINITION
1	STROBE
2 - 9	DATA 0 - 7
10	ACK#
11	BUSY
12	PE
13	SELECT
14	AUTO FEED#
15	ERR#
16	INIT#
17	SLIN#
18-25	GND

Audio I/O Jacks

LINE_OUT (lime) can be connected to headphones or preferably powered speakers. LINE_IN (light blue) allows tape players or other audio sources to be recorded by your computer or played through the LINE_OUT. MIC_IN (pink) allows microphones to be connected for audio input.



Front Audio Connector

The mainboard has a front panel audio F_AUDIO connector (Intel spec.). It allows users to attach the audio device via front panel (instead of rear panel) by a ribbon cable that in some cases. Its pin definitions are resented below.

	Pin 1	Pin 2	
MIC FNT	<input type="checkbox"/>	<input type="checkbox"/>	AGND
MIC VREF	<input type="checkbox"/>	<input type="checkbox"/>	AVDD5
LINEOF R	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	LORET R
Reserved	<input type="checkbox"/>	<input type="checkbox"/>	
LINEOF L	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	LORET L

Default:
Short



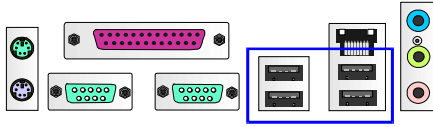
NOTE: If you do not use F_AUDIO, please keep the pinpair 5-6, 9-10 short as default; also, when the front headphone is plugged in, the rear audio output will be disabled.



NOTE: The LINE_IN, LINE_OUT, MICROPHONE jacks can be used the 5.1-channel audio output with its software tool.
For details, please read the FAQ on the web site www.fic.com.tw.

Universal Serial Bus Connectors

The mainbaord have six USB ports; four USB black jacks that integrated on the edge of the board, the other two USB ports on the board. They allows uses to attach with USB devices either from rear or front panels. The USB cable that comes with your mainboard is used to connecting between the USB pinheaders and rear panel. (See the photo below).

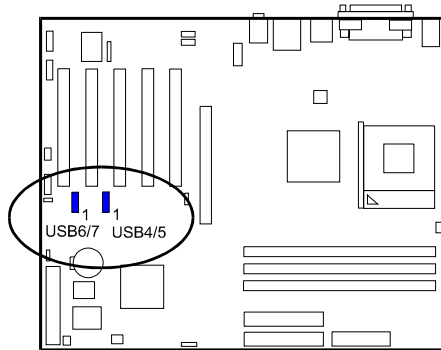
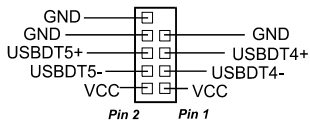


USBs



The figure below is pin assignments of the USB4/5. That of USB6/7 is similar.

USB4/5



NOTE: Only KT-600 Pro board has USB6/7.

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