

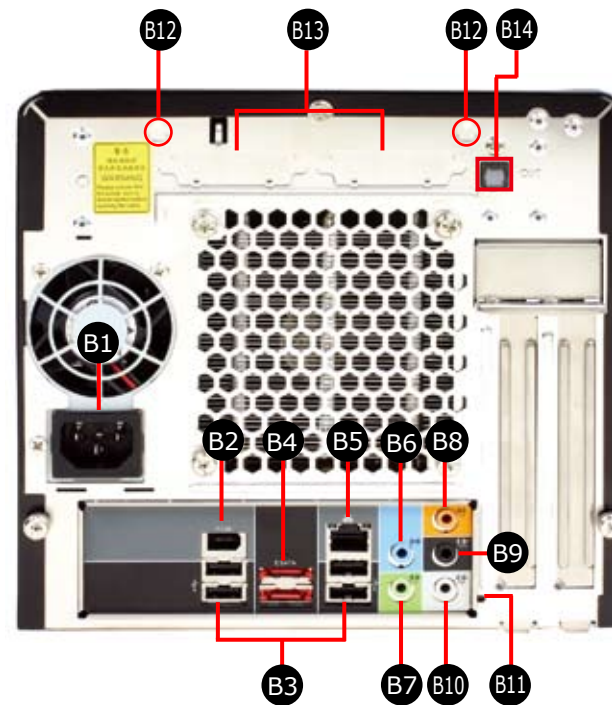
# SP45H7 Quick Guide 【English】

## Front Panel



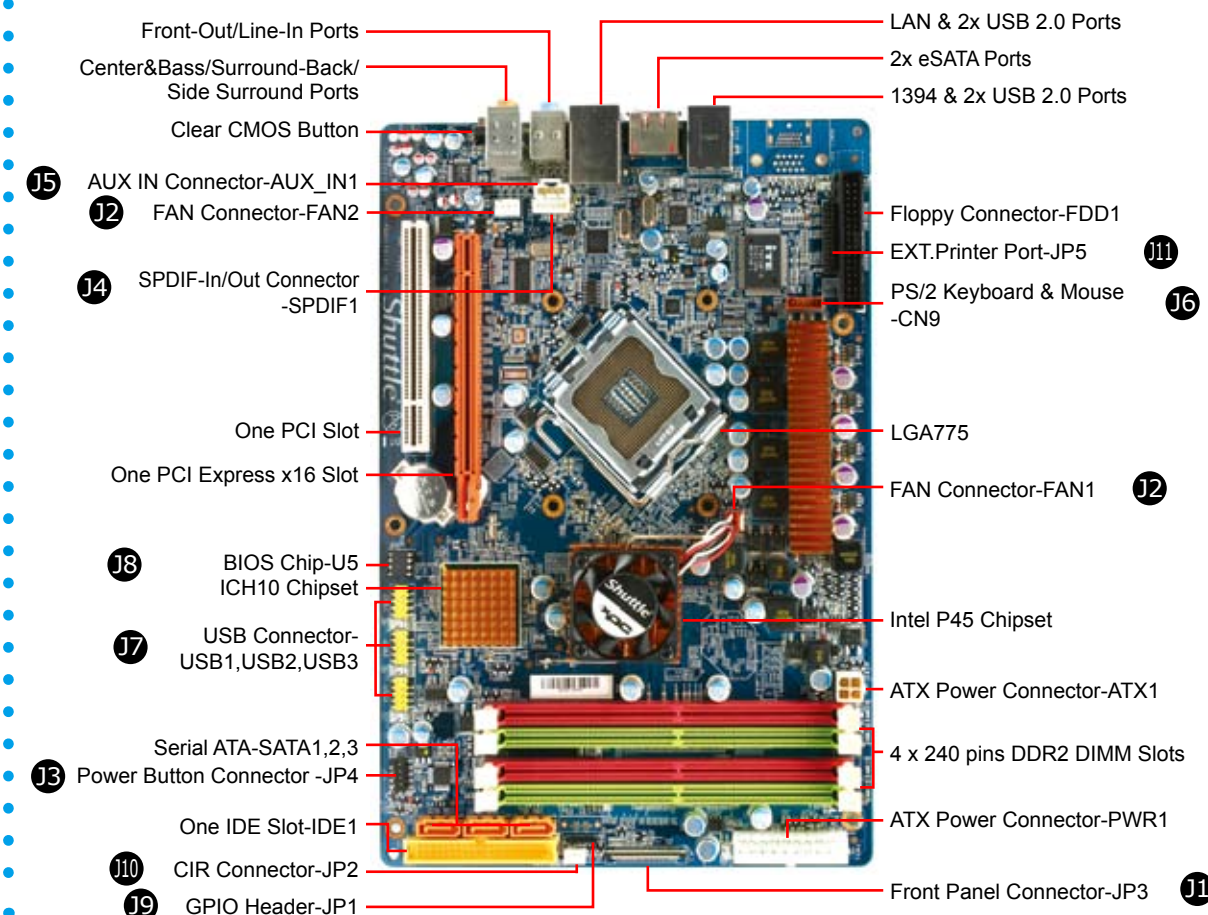
- F1. 5.25" Bay
- F2. Eject Button
- F3. Power Switch
- F4. Power LED
- F5. HDD LED
- F6. Reset Button
- F7. eSATA Port
- F8. USB2.0 Ports
- F9. Headphone
- F10. Mic In

## Back Panel



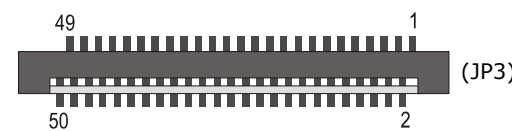
- B1. AC Power Socket
- B2. IEEE1394 Port
- B3. USB2.0 Ports
- B4. eSATA Ports
- B5. LAN Port
- B6. Line-In Port
- B7. Front-Out (L/R) Port
- B8. Center/Bass Port
- B9. Surround-Back (L/R) Port
- B10. Side Surr (L/R) Port
- B11. Clear CMOS Button
- B12. Wireless LAN Perforation
- B13. Parallel Port & PS/2 Kit Port Perforation
- B14. SPDIF Out Port

## Motherboard Illustration

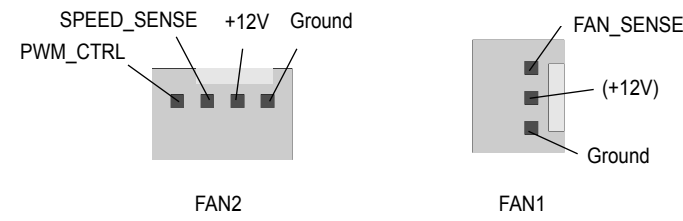


## Jumper Settings

### J1 Front Panel Connector



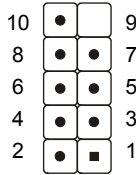
### J2 Fan Connectors



### J3 Front Panel Connector

Pin Assignments (JP4):

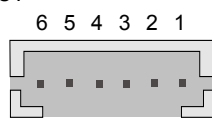
- 1=HOLEDPWR
- 2=GRNLEDA
- 3=HD\_LED
- 4=GRNLEDB
- 5=BT\_SEL
- 6=PWRSW
- 7=GND
- 8=GND
- 9=NA
- 10=KEY



### J4 SPDIF-In/Out Connector

Pin Assignments (SPDIF1):

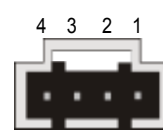
- 1=SPDIF IN
- 2=GND
- 3=VCC
- 4=GND
- 5=VCC
- 6=SPDIF OUT



### J5 AUX In Connector

Pin Assignments (AUX\_IN1):

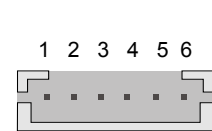
- 1=AUX-IN Left
- 2=Ground
- 3=Ground
- 4=AUX-IN Right



### J6 PS/2 Keyboard & Mouse Port

Pin Assignments (CN9):

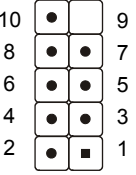
- 1=KDAT
- 2=KCLK
- 3=5V\_DUAL
- 4=GND
- 5=MDAT
- 6=MCLK



### J7 USB Connectors (USB1, USB2, USB3)

Pin Assignments (USB1, USB2, USB3):

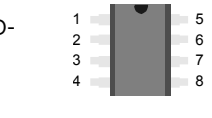
- 1=USBPWR
- 2=USBPWR
- 3=USBPIN
- 4=USBPIN
- 5=USBPIN
- 6=USBPIN
- 7=GND
- 8=GND
- 9=KEY
- 10=GND



### J8 BIOS Chip

Pin Assignments (U5):

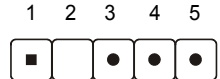
- 1=SPI\_CS0
- 2=SPI\_MISO
- 3=SPI\_WP
- 4=GND
- 5=SPI\_MOSI
- 6=SPI\_CLK
- 7=SPI\_HOLD
- 8=SPI\_VCC



### J9 GPIO Header

Pin Assignments (JP1):

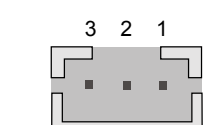
- 1=VCC
- 2=KEY
- 3=VCC
- 4=GP15
- 5=GP14



### J10 CIR Connector

Pin Assignments (JP2):

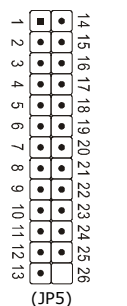
- 1=CIRRX
- 2=5V\_DUAL
- 3=GND



### J11 Parallel Port Header-EXT. Printer Port

Pin Assignments:

- 1=PD1
- 2=PD2
- 3=PD3
- 4=PD4
- 5=PD5
- 6=PD6
- 7=PD7
- 8=PD8
- 9=PD9
- 10=PD10
- 11=PD11
- 12=PD12
- 13=PD13
- 14=PD14
- 15=PD15
- 16=PD16
- 17=PD17
- 18=PD18
- 19=PD19
- 20=PD20
- 21=PD21
- 22=PD22
- 23=PD23
- 24=PD24
- 25=PD25
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- 86=PD86
- 87=PD87
- 88=PD88
- 89=PD89
- 90=PD90
- 91=PD91
- 92=PD92
- 93=PD93
- 94=PD94
- 95=PD95
- 96=PD96
- 97=PD97
- 98=PD98
- 99=PD99
- 100=PD100



### Safety Information

Read the following precautions before setting up a Shuttle XPC.

#### CAUTION

Incorrectly replacing the battery may damage this computer. Replace only with the same or equivalent as recommended by Shuttle. Dispose of used batteries according to the manufacturer's instructions.

#### Laser compliance statement

The optical disc drive in this PC is a laser product. The drive's label is located on the drive.

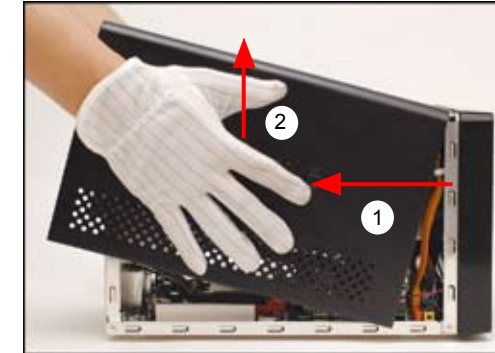
#### CLASS 1 LASER PRODUCT

CAUTION: INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.

## A. Begin Installation

Note: For safety reasons, please ensure that the power cord is disconnected before opening the case.

1. Unscrew 3 thumbscrews of the chassis cover.
2. Slide the cover backwards and upwards.

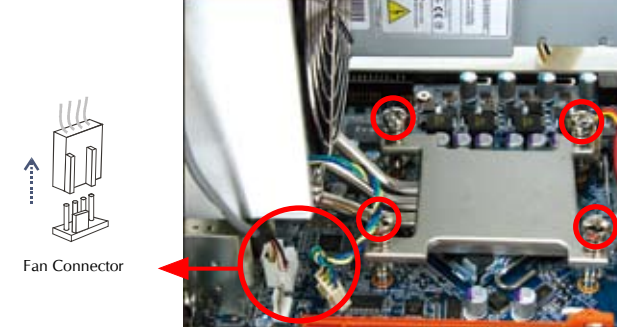


3. Unfasten the rack mount screws and remove the rack.



## B. CPU and ICE Installation

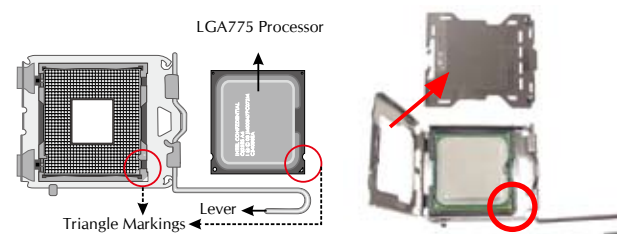
1. Unfasten the ICE fan thumbscrews on the back of the chassis and unplug the fan connector.
2. Unfasten the four ICE module attachment screws.



3. Remove the ICE module from the chassis and put it aside.

Note: This 775 pin socket is fragile and easily damaged. Always use extreme care when installing a CPU and limit the number of times that you remove or change the CPU.

4. First unlock and raise the socket lever.
5. Lift the metal load plate on the CPU socket.
6. Orientate the CPU and socket, aligning the yellow triangle on the corner of the CPU with the triangle on the socket. Make sure the CPU is perfectly horizontal, insert the CPU into the socket.
7. Remove the protective socket cover. Close the load plate, lower the CPU socket lever and lock in place.



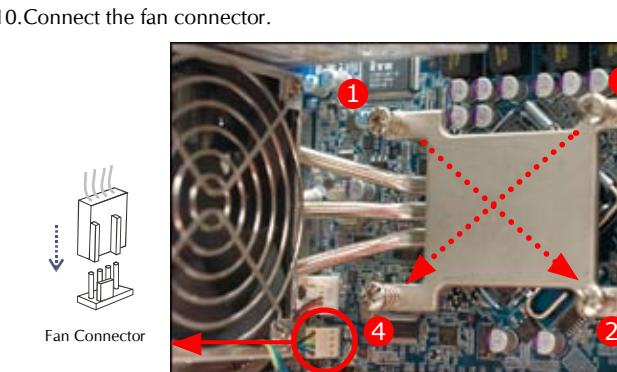
Note: Failure to correctly align the CPU and socket can result in damage to the CPU.

8. Spread an even layer of thermal compound on the CPU die.



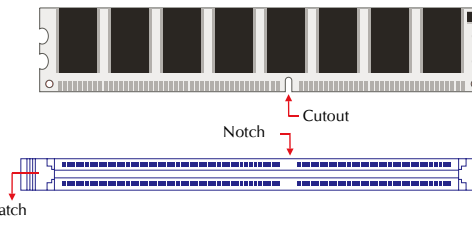
Note: Please do not use too much Heatsink compound.

9. Screw the ICE module to the mainboard. Note to press down on the opposite diagonal corner while tightening each screw.
10. Connect the fan connector.



## C. DDR2 Installation

1. Unlock the DIMM latch.
2. Align the DDR2 module's cutout with the DIMM slot notch. Slide the DDR2 module into the DIMM slot.



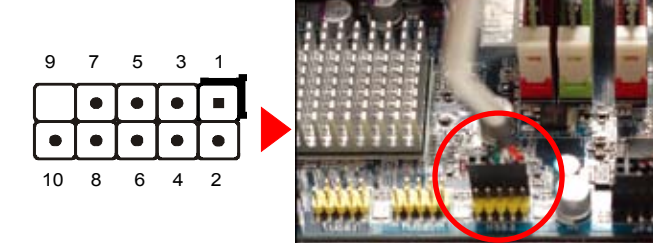
3. Check that the latches are closed, and the DDR2 modules are firmly installed.

Note: Repeat to install additional DDR2 modules if desired.



## D. Cable and Rack Installation

1. Plug the card reader USB cable to the USB header located on the motherboard.



Note: Please make sure the red cable is on Pin 1 or Pin 2.

2. Loosen the purse lock and separate the HDD power cable.



3. Place the HDD/Card reader in the rack and secure with screws from the side.



4. Place the rack in the chassis and refasten the rack.

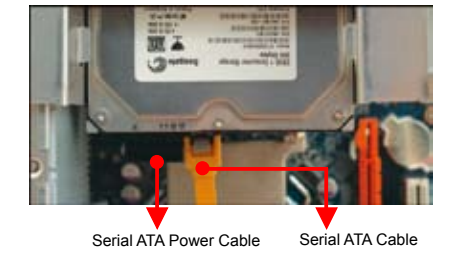


5. Loosen the purse lock and separate the Optical Drive power cable.

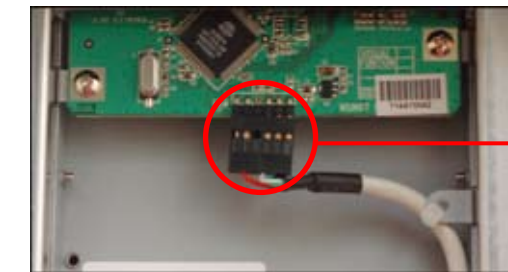


## E. Peripheral Installation

1. Connect the Serial ATA and power cables to the HDD.

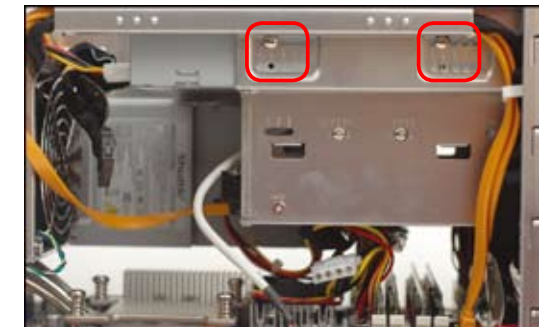


2. Connect the card reader USB cable to the Card Reader.

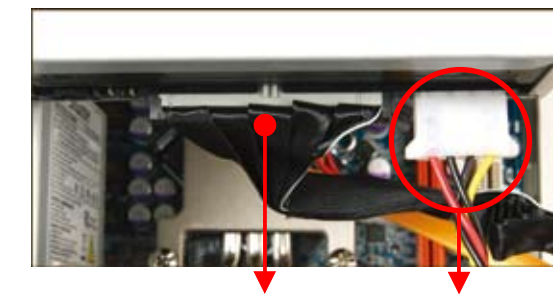


3. Slide the optical drive into the chassis.

4. Fasten the four side screws.



5. Plug the IDE cable and power cable into the optical drive.



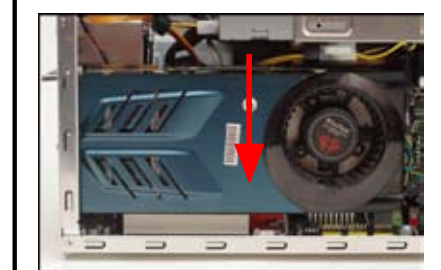
## F. Add on Card Installation

1. Unfasten expansion slot bracket screws. Remove the back panel bracket and put the bracket aside.

Note: The maximum size acceptable for display card is 267mm x 98mm x 18mm



2. Install the PCI Express x16/PCI card into the PCI Express x16/PCI slot.



3. Secure the bracket.

## G. Complete

1. Replace the cover and refasten the thumbscrews.
2. Take out the two front feet from the accessory box.
3. Screw the front feet to the base of the chassis.



4. Complete.

Note: Please load the optimized BIOS values.