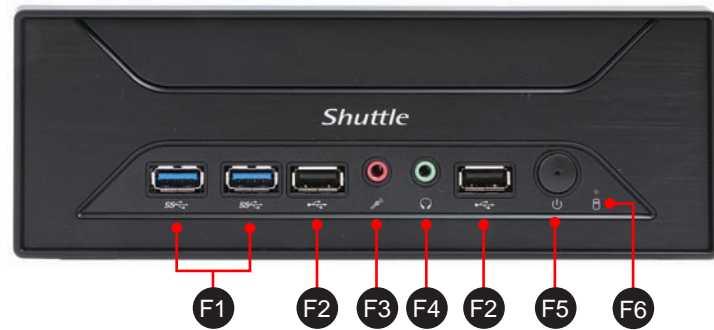


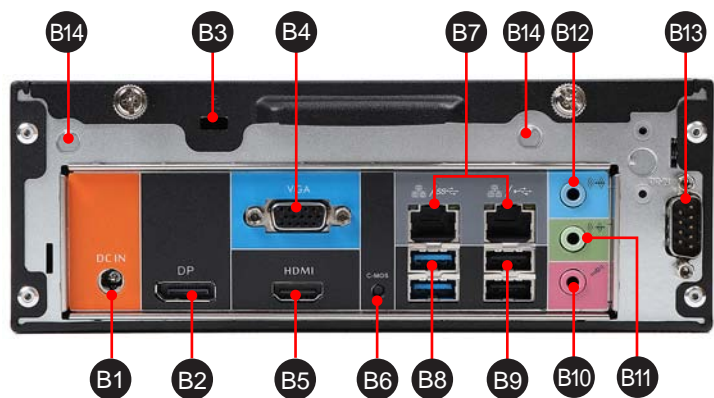
XH270 Quick Guide 【English】

Front Panel



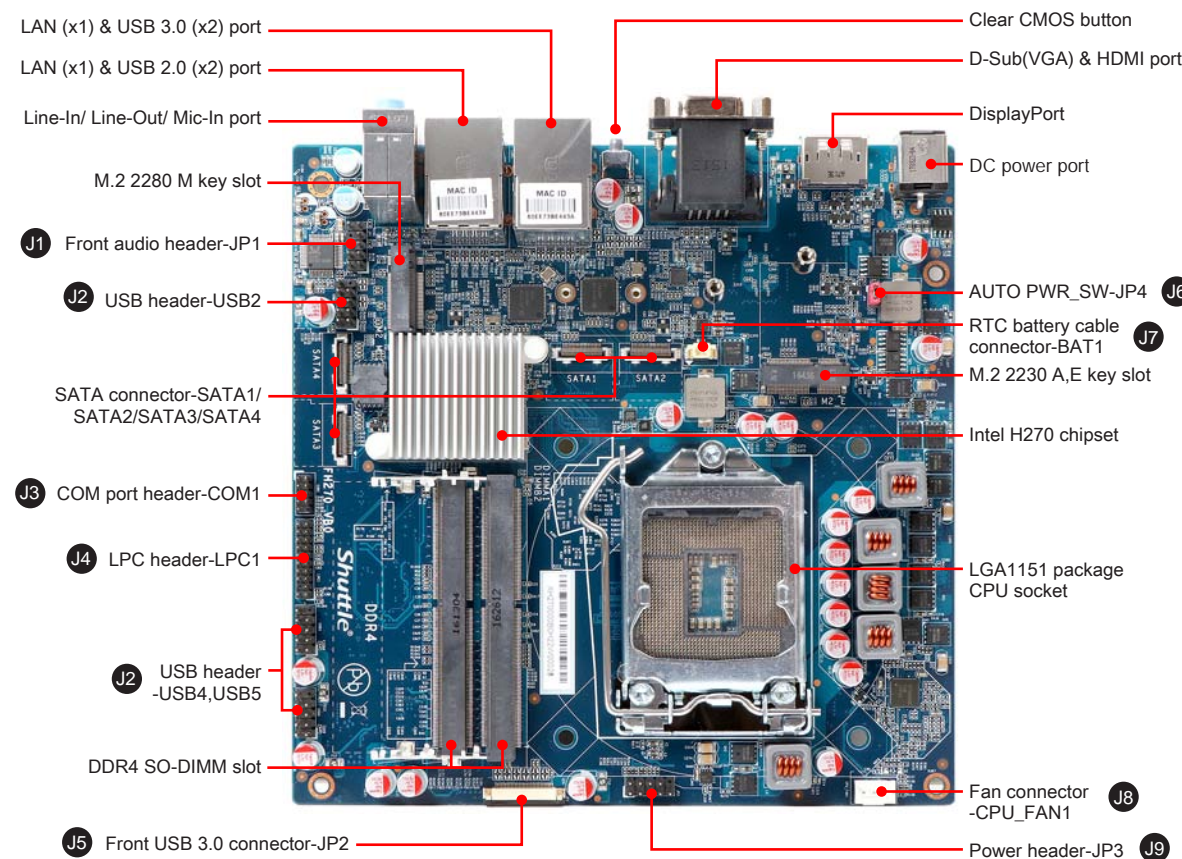
- F1. USB 3.0 port
- F2. USB 2.0 port
- F3. Mic-in
- F4. Headphones
- F5. Power switch / Power LED
- F6. HDD LED

Back Panel



- B1. DC power port
- B2. DisplayPort
- B3. Kensington® lock hole
- B4. D-Sub (VGA) port
- B5. HDMI port
- B6. Clear CMOS
- B7. LAN port
- B8. USB 3.0 port
- B9. USB 2.0 port
- B10. Mic-In port
- B11. Line-Out port
- B12. Line-In port
- B13. COM port (RS232)
- B14. Wireless LAN perforation (optional)

Motherboard Illustration



Safety Information

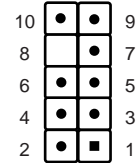
Read the following precautions before setting up a Shuttle XPC.

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.

Jumper Settings

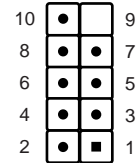
J1 Front audio header (JP1)

- | | |
|-----------|------------|
| 1=MIC_L | 2=AGND |
| 3=MIC_R | 4=FRONT-JD |
| 5=HP_R_C | 6=MIC-JD |
| 7=SENSE B | 8=NULL |
| 9=HP_L_C | 10=HP-JD |



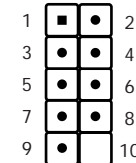
J2 USB header (USB2,USB4,USB5)

- | | |
|----------|----------|
| 1=5V_USB | 2=5V_USB |
| 3=USB A- | 4=USB B- |
| 5=USB A+ | 6=USB B+ |
| 7=GND | 8=GND |
| 9=NULL | 10=GND |



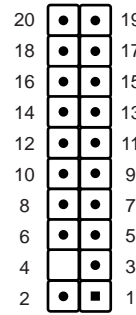
J3 COM port header (COM1)

- | | |
|-------|---------|
| 1=DCD | 2=RX |
| 3=TX | 4=DTR |
| 5=GND | 6=DSR |
| 7=RTS | 8=CTS |
| 9=RI | 10=NULL |



J4 LPC header (LPC1)

- | | |
|------------|----------------|
| 1=LPC_33M | 2=GND_LPC |
| 3=LFRAME | 4=NULL |
| 5=SIORST- | 6=NA |
| 7=LAD3 | 8=LAD2 |
| 9=+3.3V | 10=LAD1 |
| 11=LADO | 12=GND_LPC |
| 13=LPC_48M | 14=PCH_PME- |
| 15=+3.3VS | 16=SERIRO |
| 17=GND_LPC | 18=CLKRUN_NC |
| 19=PD#_NC | 20=SUS_CLK_TPM |



J5 Front USB 3.0 header (JP2)

- | | | | |
|-----------|------------|------------|------------|
| 1=+5VS | 2=+5VS | 3=+5VS | 4=+5VS |
| 5=U3_RX1N | 6=U3_RX1P | 7=GND | 8=GND |
| 9=U3_TX1N | 10=U3_TX1P | 11=GND | 12=GND |
| 13=USB8_N | 14=USB8_P | 15=+5VS | 16=+5VS |
| 17=+5VS | 18=+5VS | 19=U3_RX2N | 20=U3_RX2P |
| 21=GND | 22=GND | 23=U3_TX2N | 24=U3_TX2P |
| 25=GND | 26=GND | 27=USB9_N | 28=USB9_P |
| 29=GND | 30=GND | | |



J6 AUTO PWR_SW (JP4)

- | |
|----------|
| 1=PWRSW- |
| 2=GND |



J7 RTC battery cable connector

- | |
|----------|
| 1=BATPWR |
| 2=GND |



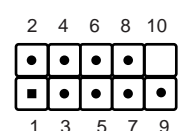
J8 Fan connector (CPU_FAN1)

- | |
|---------------|
| 1=Ground |
| 2=+12V |
| 3=SPEED_SENSE |
| 4=PWM_CTRL |



J9 Power header (JP3)

- | | |
|-----------|-----------|
| 1=HLEDPWR | 2=PWR_LED |
| 3=SATALED | 4=GND |
| 5=RST_SW | 6=PWR_SW |
| 7=GND | 8=GND |
| 9=NA | 10=NULL |



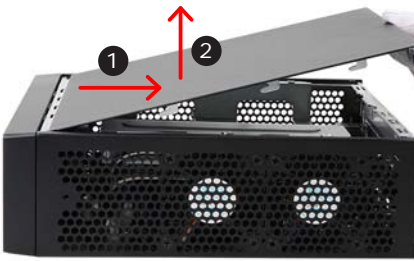
A. Begin Installation

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

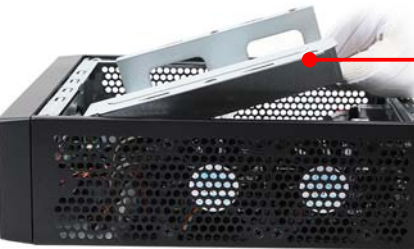
1. Unscrew the two thumbscrews of the chassis cover.



2. Slide the cover backwards and upwards.



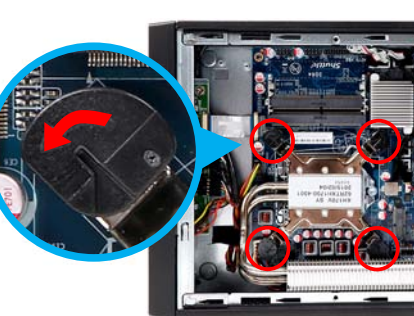
3. Unfasten the rack mount screws and remove the rack.



B. CPU and ICE Module Installation

1. Unfasten the four ICE module attachment screws.

- To loosen the ICE module, turn the fastener in the direction as shown by the arrow. Proceed vice versa to tighten.

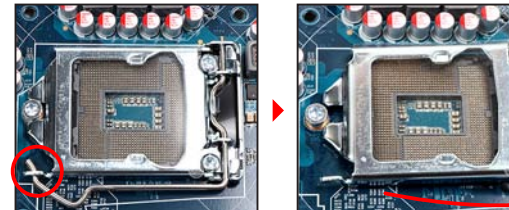


2. Remove the ICE module from the chassis and put it aside.

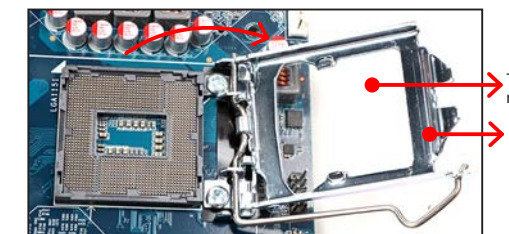
- This 1151-pin socket is fragile and easily damaged. Always use extreme care when installing a CPU and limit the number of times that you remove or change the CPU. Before installing the CPU, make sure to turn off the computer and unplug the power cord from the power outlet to prevent damage to the CPU.

Follow the steps below to correctly install the CPU into the motherboard CPU socket.

3. First unlock and raise the socket lever.

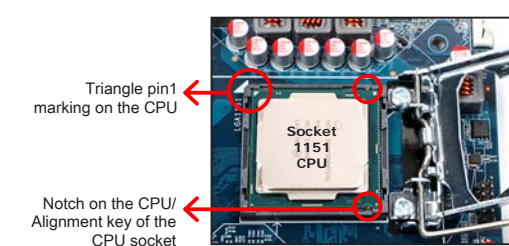


4. Tear off the protective membrane from the metal load plate. Lift the metal load plate on the CPU socket.



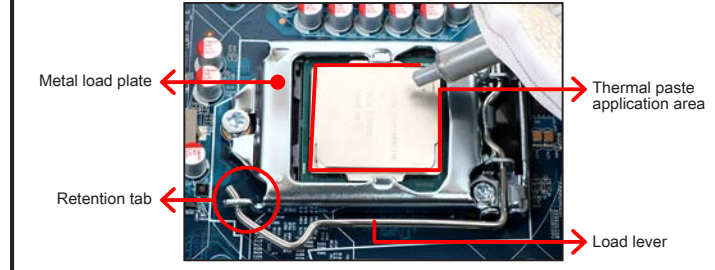
- DO NOT touch socket contacts. To protect the CPU socket, always replace the protective socket cover when the CPU is not installed.

5. Orientate the CPU and socket, please align the CPU notches with the socket alignment keys. Make sure the CPU sits perfectly horizontal, then insert the CPU into the socket.



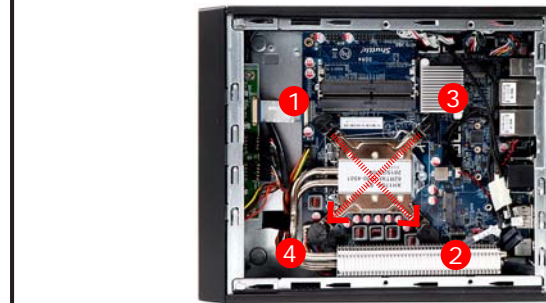
- Please be aware of the CPU orientation, DO NOT force the CPU into the socket to avoid bending of pins and damage of CPU!

6. Close the metal load plate, lower the CPU socket lever and lock in place.
7. Spread thermal paste evenly on the CPU surface.



- Please do not apply excess amount of thermal paste.

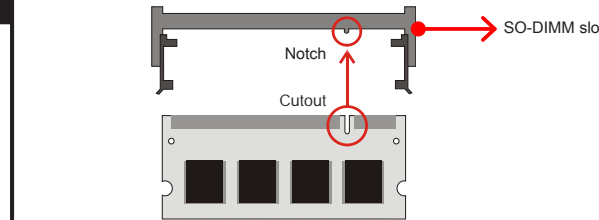
8. Screw the ICE module to the mainboard. Note to press down on the opposite diagonal corner while tightening each screw.



C. Memory Module Installation

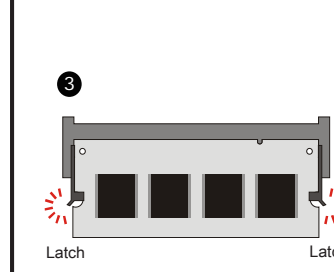
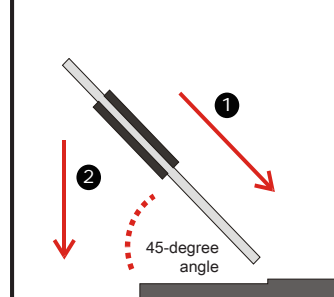
- This motherboard does only support 1.2 V DDR4 SO-DIMM memory modules.

1. Locate the SO-DIMM slot on the mainboard.
2. Align the notch of the memory module with the one of the memory slot.



3. Gently insert the module into the slot in a 45-degree angle.

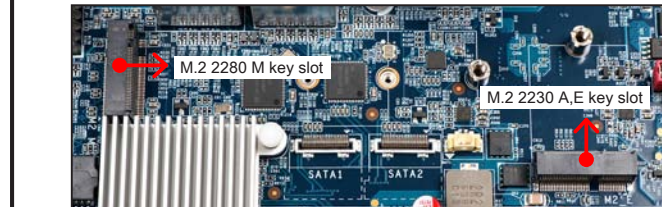
4. Carefully push down the memory module until it snaps into the locking mechanism.



5. Repeat the above steps to install additional memory modules, if required.

D. Component Installation

1. Please proceed as shown in the illustration, and locate the M.2 key slots on the mainboard.



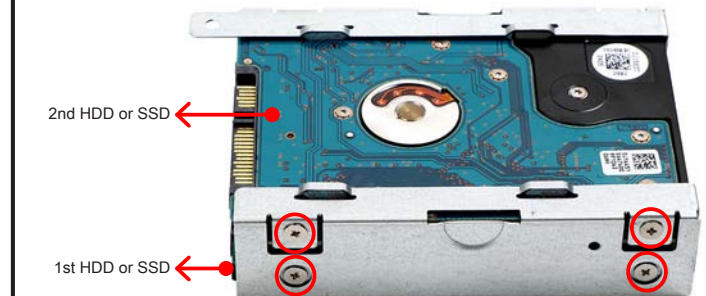
2. Install the M.2 card into the M.2 slot and secure with the screw.



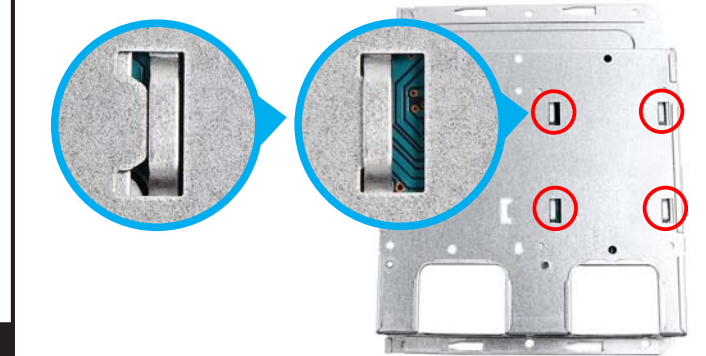
3. Please take 4 brackets and 16 screws out of the accessory kit.



4. Place the HDDs or SSDs atop one another and secure them in the brackets with four screws on each side.



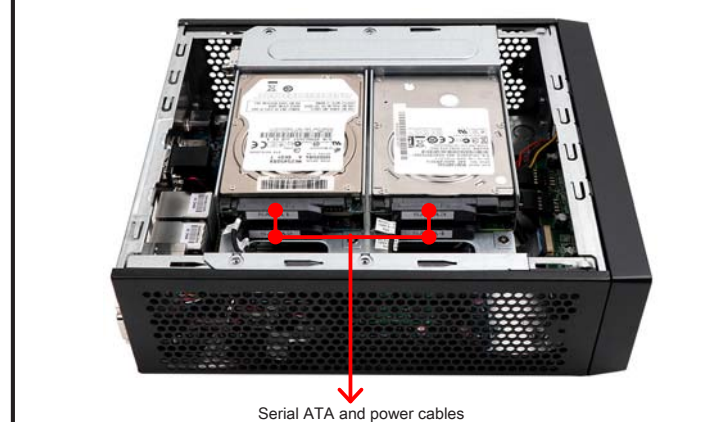
5. Install all drives in the rack using the brackets. Slide the latch into the hole until it clicks into place. Make sure all four latches sit properly in place.



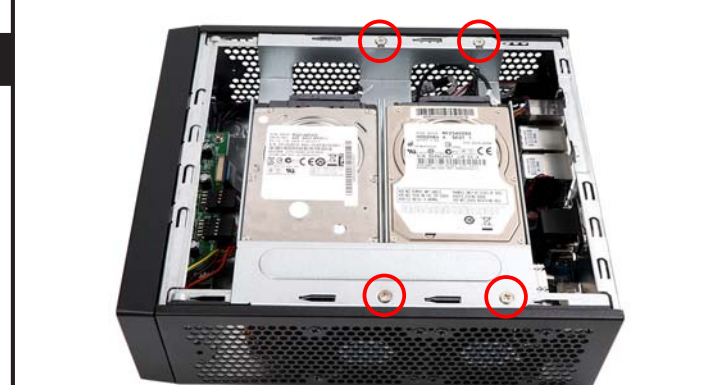
6. Now turn the rack upside down and tighten one screw each on the bracket. Repeat the above steps to install a 3rd and/or 4th HDD/SSD, if desired.



7. Connect the Serial ATA and power cables to the HDDs or SSDs.



8. Slide the rack back in the chassis and refasten the four screws.



E. Complete

1. Replace the cover and refasten the thumbscrews.



2. Complete.

- Please press the "Del" key while booting to enter BIOS. Here, please load the optimised BIOS settings.