

XH310V/XH310 Quick Guide 【English】

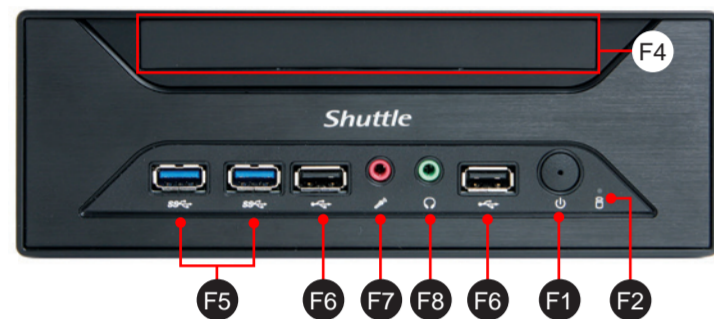
Front Panel

➤ XH310V

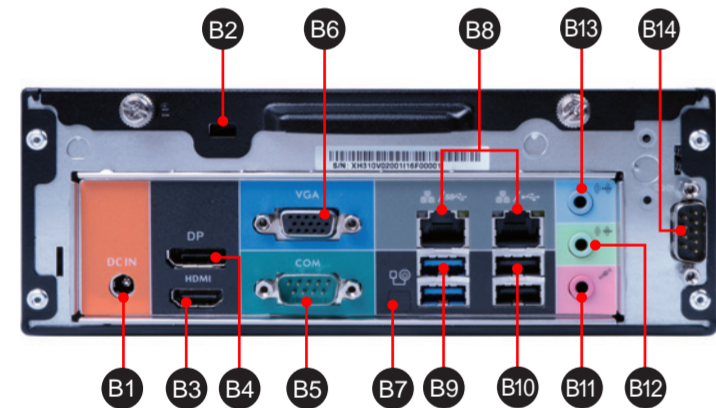


- F1. Power switch / Power LED
- F2. HDD LED
- F3. ODD and front I/O bay
- F4. Slim ODD bay
- F5. USB 3.1 Gen 1 ports
- F6. USB 2.0 ports
- F7. Mic-In
- F8. Headphones

➤ XH310

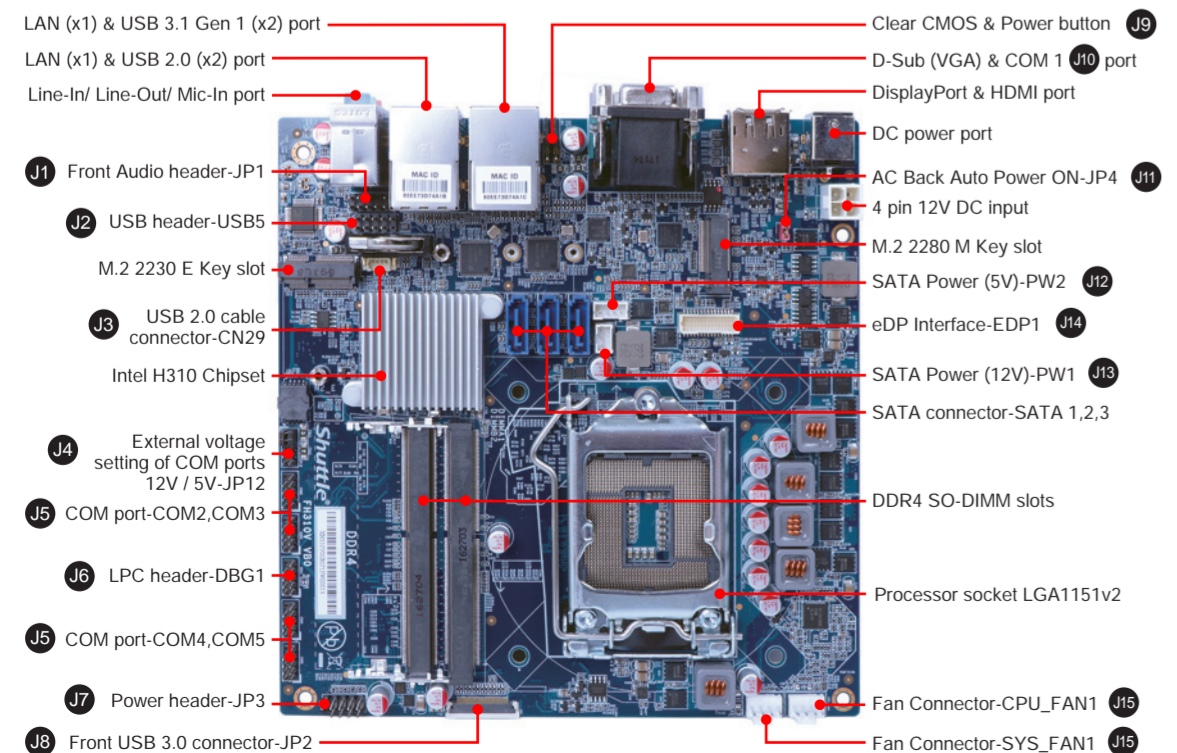


Back Panel



- B1. DC power port
- B2. Kensington® Lock Hole
- B3. HDMI port
- B4. DisplayPort
- B5. COM 1 port (RS232/RS422/RS485)
- B6. D-Sub (VGA) port
- B7. Clear CMOS & Power button
- B8. LAN ports
- B9. USB 3.1 Gen 1 ports
- B10. USB 2.0 ports
- B11. Mic-In port
- B12. Line-Out port
- B13. Line-In port
- B14. COM 2 port (RS232)

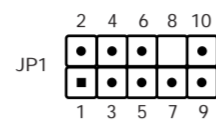
Motherboard Illustration



Jumper Settings

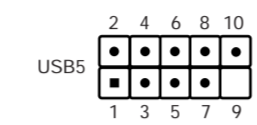
J1 Front Audio header

- 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

- 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



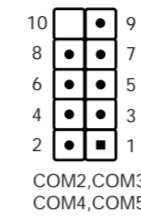
J3 USB 2.0 cable connector

- 1=GND
- 2=USB1P_C
- 3=USB1N_C
- 4=USBPW01(+5V)



J5 COM port

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



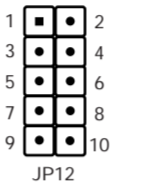
J4 External voltage setting of COM ports 12V / 5V

- JUMP1 connector Pin 1 and Pin 2 = R11 Signal.
- JUMP2 connector Pin 3 and Pin 4 = R12 Signal.
- IF JUMP1 connector Pin 5 and Pin 7 = R11 is +5V
- IF JUMP2 connector Pin 6 and Pin 8 = R12 is +5V
- IF JUMP1 connector Pin 7 and Pin 9 = R11 is 12V
- IF JUMP2 connector Pin 8 and Pin 10 = R12 is 12V

- 1=-XRI1
- 2=COM_-XRI1
- 5=+5V
- 6=+5V
- 9=+12V
- 10=+12V

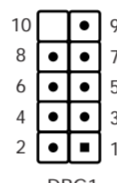
- 3=-XRI2
- 7=COM1_PWR

- 4=COM_-XRI2
- 8=COM2_PWR



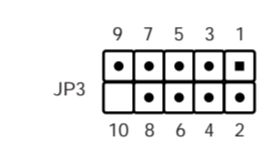
J6 LPC header

- 1=LPC_33M
- 2=LAD1
- 3=SIORST-
- 4=LAD0
- 5=LFRAME-
- 6=+3.3V
- 7=LAD3
- 8=GND
- 9=LAD2
- 10=NULL



J7 Power header

- 1=HDLEDPWR
- 2=PWRLED
- 3=ATALED
- 4=GND
- 5=RST_SW
- 6=PWRSW
- 7=GND
- 8=GND
- 9=NA
- 10=NULL



J8 Front USB 3.0 connector

- 1=5V_USB
- 2=5V_USB
- 3=5V_USB
- 4=5V_USB
- 5=U3_RX3N
- 6=U3_RX3P
- 7=GND
- 8=GND
- 9=U3_TX3N
- 10=U3_TX3P
- 11=GND
- 12=GND
- 13=USB8_N
- 14=USB8_P
- 15=5V_USB
- 16=5V_USB
- 17=5V_USB
- 18=5V_USB
- 19=U3_RX4N
- 20=U3_RX4P
- 21=GND
- 22=GND
- 23=U3_TX4N
- 24=U3_TX4P
- 25=GND
- 26=GND
- 27=USB9_N
- 28=USB9_P
- 29=GND
- 30=GND



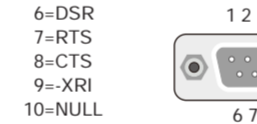
J9 Clear CMOS & power button

- 1=RTCRTS-
- 2=+5V
- 3=GND
- 4=PWRSW-



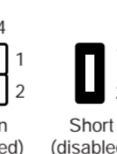
J10 COM 1 port

- 1=DCD_485TX-
- 2=RX_485TX+
- 3=TXD_422RX+
- 4=DTR_422RX-
- 5=GND
- 6=DSR
- 7=RTS
- 8=CTS
- 9=XRI
- 10=NULL



J11 AUTO PWR-ON

- 1=U17B_pin5
- 2=GND



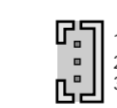
J12 SATA Power (5V)

- 1=GND
- 2=GND
- 3=+5V
- 4=+5V



J13 SATA Power (12V)

- 1=GND
- 2=NC
- 3=+12V



J15 FAN Connector

- 1=GND
- 2=+12V
- 3=SPEED_SENSE
- 4=PWM_CTRL



J14 eDP Interface

- 1=NC
- 2=NC
- 3=GND
- 4=INV_PWR_SRC
- 5=DP0_N
- 6=INV_PWR_SRC
- 7=DP0_P
- 8=INV_PWR_SRC
- 9=GND
- 10=INV_PWR_SRC
- 11=DP1_N
- 12=NC
- 13=DP1_P
- 14=NC
- 15=GND
- 16=PWMO_R
- 17=AUX_P
- 18=BKTEN_R
- 19=AUX_N
- 20=GND
- 21=GND
- 22=GND
- 23=PWMO_VDD
- 24=GND
- 25=PWMO_VDD
- 26=GND
- 27=PWMO_VDD
- 28=EDP_HPD_Q
- 29=GND
- 30=GND



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 classification label is located on the drive.

CLASS 1 LASER PRODUCT
CAUTION: INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

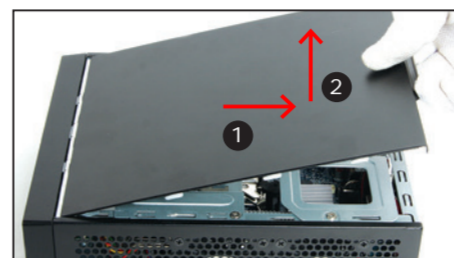
A. Begin Installation

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

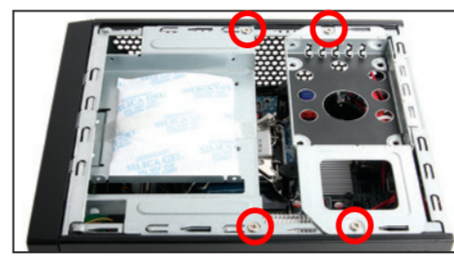
1. Unscrew the two thumbscrews of the chassis cover.



2. Slide the cover backwards and upwards.



3. Unfasten the racks' mount screws and remove the racks.

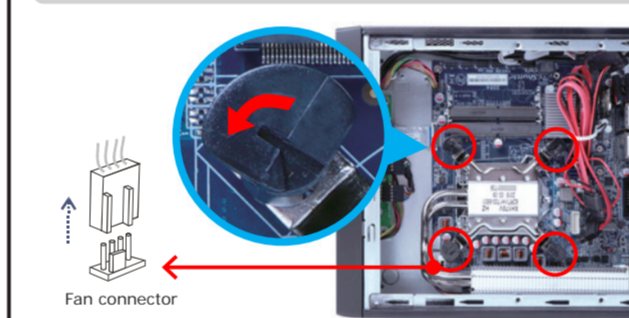


HDD Rack ODD Rack

B. CPU and ICE Module Installation

1. Unfasten the four ICE module attachment screws and unplug the fan connector.

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

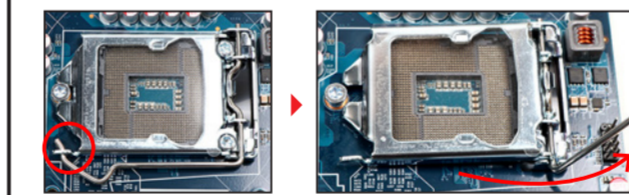


2. Remove the ICE module from the chassis and put it aside.

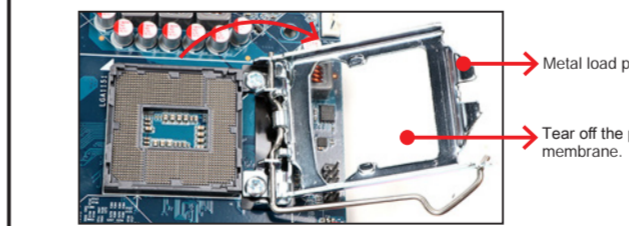
⚠ This 1151-pin socket is fragile and easily damaged. Always use extreme care when installing a CPU and limit the number of times that you remove or change the CPU. Before installing the CPU, make sure to turn off the computer and unplug the power cord from the power outlet to prevent damage of the CPU.

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

3. First unlock and raise the socket lever.

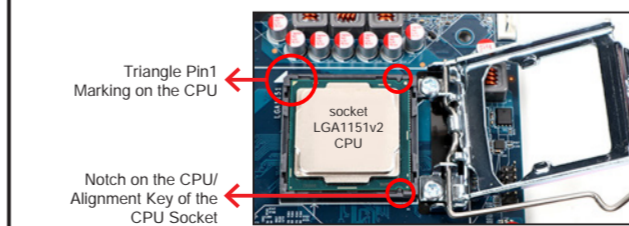


4. Tear off the protective membrane from the metal load plate. Lift the metal load plate on the CPU socket.



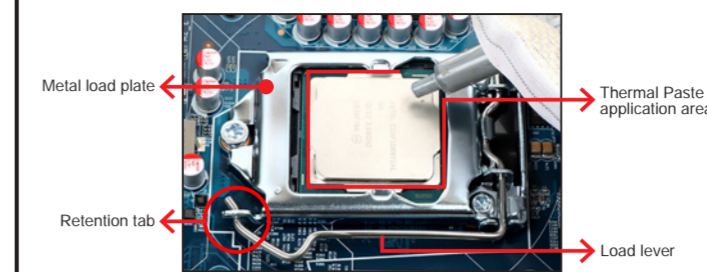
⚠ DO NOT touch socket contacts. To protect the CPU socket, always replace the protective socket cover when the CPU is not installed.

5. Please orientate the CPU correctly and align the CPU notches with the socket alignment keys. Make sure the CPU sits perfectly horizontal, then push it gently into the socket.



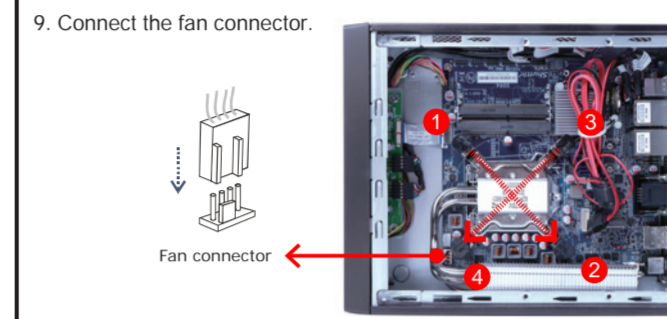
⚠ Please be aware of the CPU orientation, DO NOT force the CPU into the socket to avoid bending of pins on the socket and damage of CPU!

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.

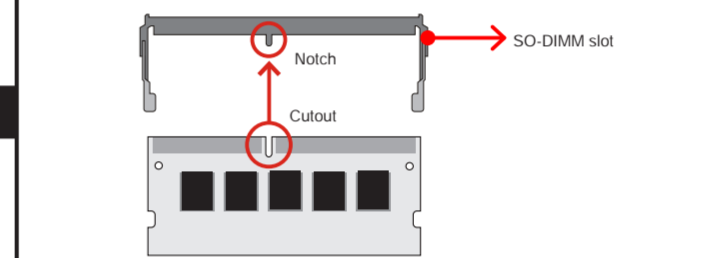
8. Screw the ICE module to the mainboard. Note to press down the opposite diagonal corner while tightening each screw.



C. Memory Module Installation

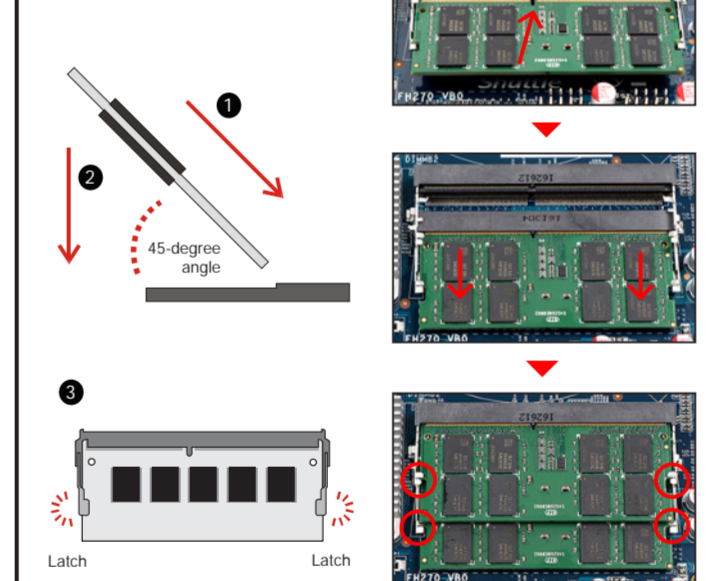
⚠ This motherboard does only support 1.2 V DDR4 SO-DIMM memory modules.

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.

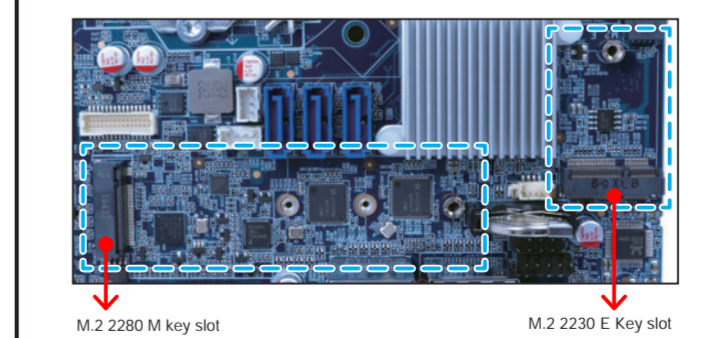
4. Carefully push down the memory module until it snaps into the locking mechanism.



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.

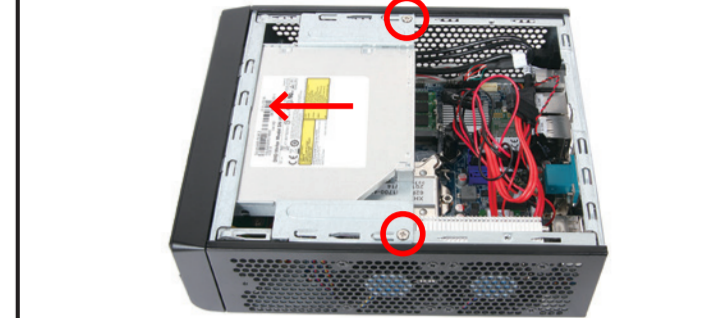


3. Place the slimline DVD drive in the rack and fasten it with the four screws from the sides.

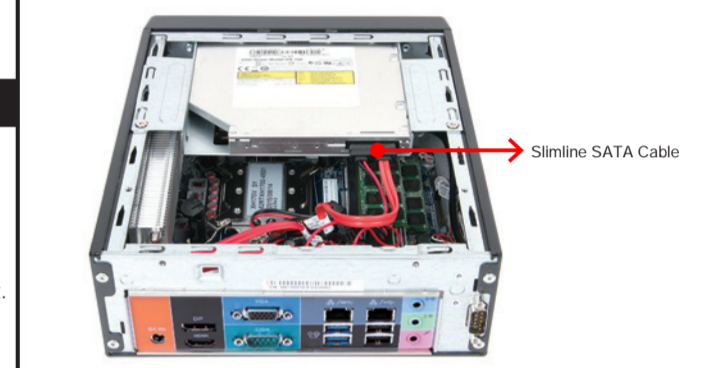


⚠ XH310 only: If you intend to install an ODD remove the front bay cover first.

4. Slide the rack downward and forward and refasten it using the two screws.



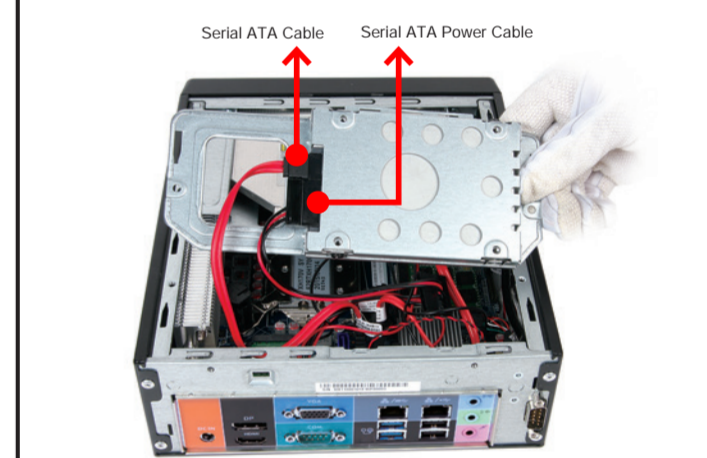
5. Connect the ODD cable and power cable to optical drive.



6. Place an HDD or SSD in the rack and secure with the four screws from the side.



7. Connect the Serial ATA and power cables to the HDD or SSD.



8. Slide the rack in the chassis and refasten the two 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 optimized BIOS settings.