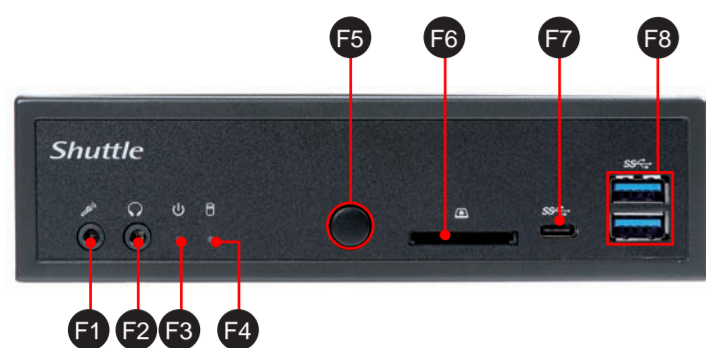


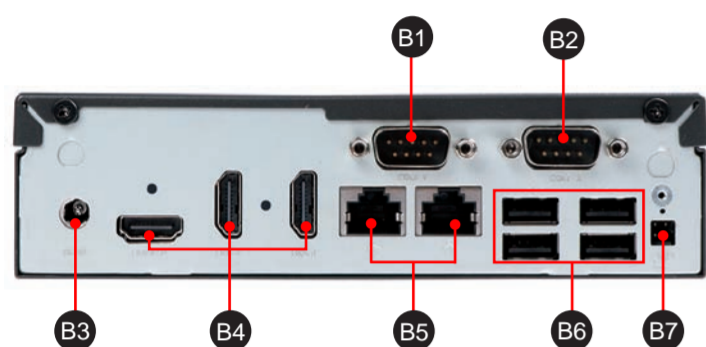
DH270 Series Quick Guide 【English】

Front Panel



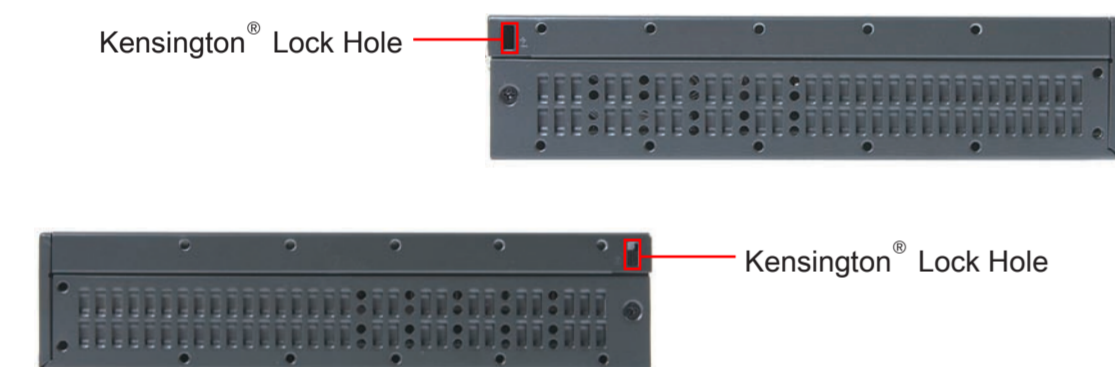
- F1. MIC-in
- F2. Headphones
- F3. Power LED
- F4. HDD LED
- F5. Power button
- F6. SD card reader
- F7. USB Type-C port
- F8. USB 3.0 ports

Back Panel

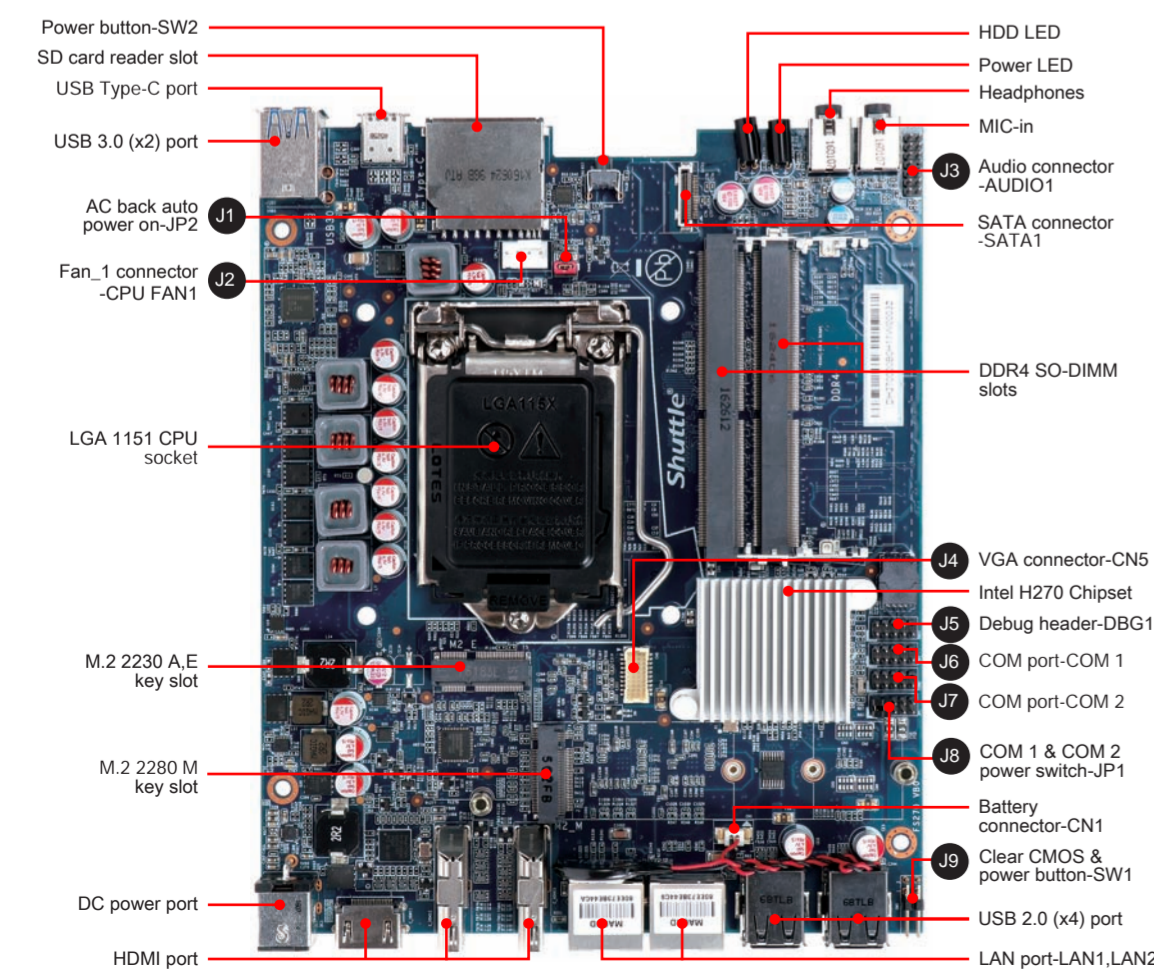


- B1. COM 1 port (RS232/RS422/RS485)
- B2. COM 2 port (RS232 only)
- B3. DC power port
- B4. HDMI port
- B5. LAN port
- B6. USB 2.0 ports
- B7. Clear CMOS & power button

Left / Right Panel



Motherboard Illustration

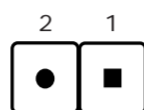


Jumper Settings

J1 AC back auto power on

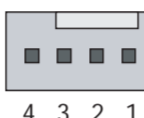
DEFAULT =>Disable, short 1-2

Pin	Signal Name
1	U30B_Pin10
2	GND



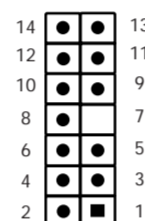
J2 Fan 1 connector

Pin	Signal Name
1	GND
2	+12V
3	SPEED_SENSE
4	PWM_CTRL



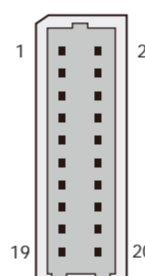
J3 Audio connector

Pin	Signal Name	Pin	Signal Name
1	PULL AGND	2	LINE-R
3	NA	4	LINE-L
5	PULL AGND	6	FRONT_L
7	NULL	8	FRONT_SENSE
9	PULL AGND	10	FRONT_R
11	FR_AUDIO-JD	12	MIC1_R
13	AGND	14	MIC1_L



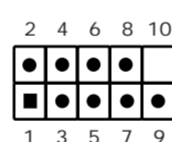
J4 VGA connector

Pin	Signal Name	Pin	Signal Name
1	GND	2	GND
3	SDVO_CLK_D	4	GND
5	SDVO_DATA_D	6	GND
7	GND	8	GND
9	CRT_VSYNC_R	10	GND
11	CRT_HSYNC_R	12	GND
13	GND	14	GND
15	BOUT-O	16	VGA_PWR
17	GOUT-O	18	VGA_PWR
19	ROUT-O	20	VGA_PWR



J5 Debug header

Pin	Signal Name	Pin	Signal Name
1	LPC_24M	2	LAD1
3	SIORST-	4	LAD0
5	LFRAME-	6	+3.3V
7	LAD3	8	GND
9	LAD2	10	NA



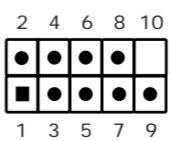
J6 COM port

Pin	Signal Name
1	TXD-
2	TXD+
3	RXD-
4	RXD+
5	GND
6	DSR
7	RTS
8	CTS
9	RI(NA)

Pin	Signal Name	Pin	Signal Name
1	RS232	2	RS422
3	TXD-	4	Data-
5	GND	6	GND
7	RTS	8	CTS
9	RI(NA)	10	NA

J7 COM port

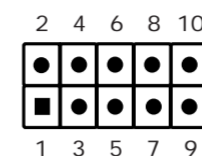
Pin	Signal Name	Pin	Signal Name
1	DCD	2	RX
3	TX	4	DTR
5	GND	6	DSR
7	RTS	8	CTS
9	RI(NA)	10	NA



J8 COM 1 & COM 2 power switch

COM PORT Pin 9 "Ring Indicator" (RI) configuration:

- Configure COM 1 with the first jumper:
- Short Pin 1-2: Pin 9 = RI (default)
- Short Pin 5-7: Pin 9 = +5V
- Short Pin 7-9: Pin 9 = +12V

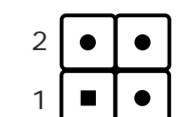


- Configure COM 2 with the second jumper:
- Short Pin 3-4: Pin 9 = RI (default)
- Short Pin 6-8: Pin 9 = +5V
- Short Pin 8-10: Pin 9 = +12V

COM1 (pin9)		COM2 (pin9)	
Short Pin	Function	Short Pin	Function
1-2 (Default)	RI1	3-4 (Default)	RI2
5-7	+5 V	6-8	+5 V
7-9	+12 V	8-10	+12 V

J9 Clear CMOS & power button

Pin	Signal Name	Pin	Signal Name
1	RTCRST-	2	+5V
3	GND	4	PWRSW-



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.

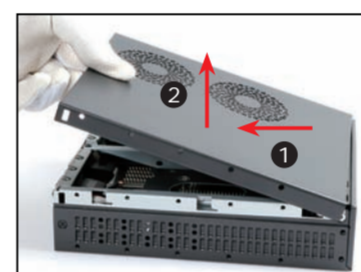
A. Begin Installation

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

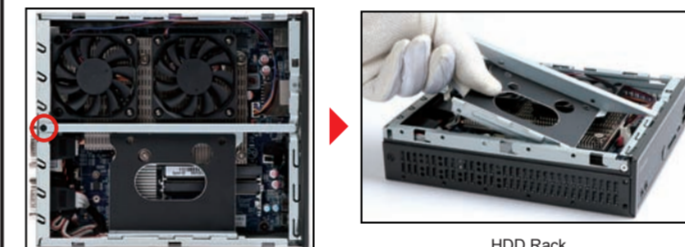
- Unscrew the two screws of the chassis cover.



- Slide the cover backwards and upwards.

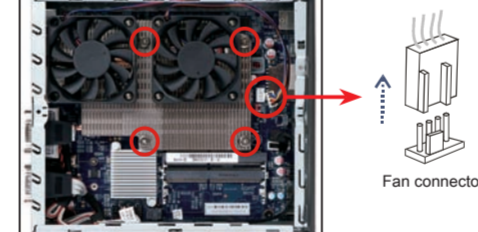


- Unfasten the rack mount screw and remove the rack.



B. CPU and ICE Module Installation

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

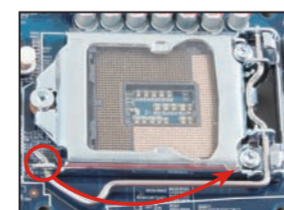


- Remove the ICE module from the chassis and put it aside.

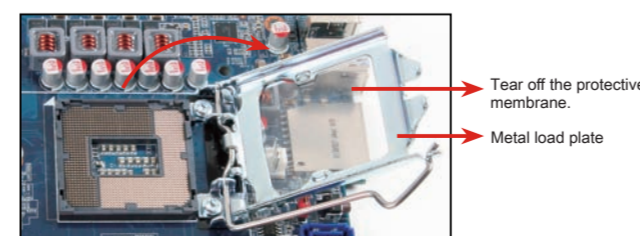
- This 1151-pin socket is easily damaged and pins bend quickly. Always use extreme care when installing a CPU and limit the number of times that you remove or change it. Before installing the CPU, make sure to turn off the computer and unplug the power cord from the power outlet to prevent damage of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

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

- First unlock and raise the socket lever.

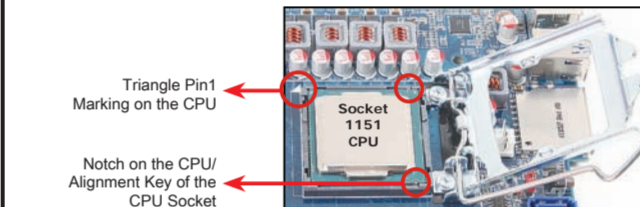


- Tear off the protective membrane from the metal load plate. Lift the metal load plate from the CPU socket.



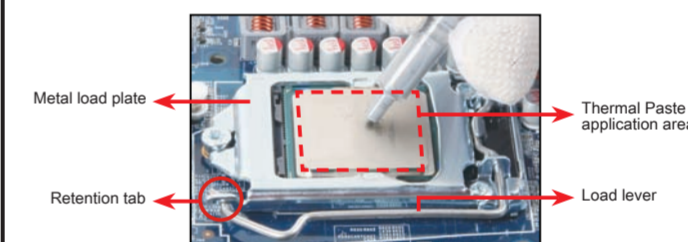
- DO NOT touch socket contacts. To protect the CPU socket, always replace the protective socket cover when the CPU is not installed.

- 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 and damage of the CPU!

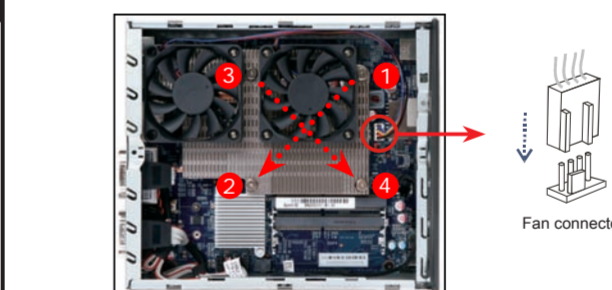
- Close the metal load plate, lower the CPU socket lever and lock in place.
- Spread thermal paste evenly on the CPU surface.



- Please do not apply excess amount of thermal paste.

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

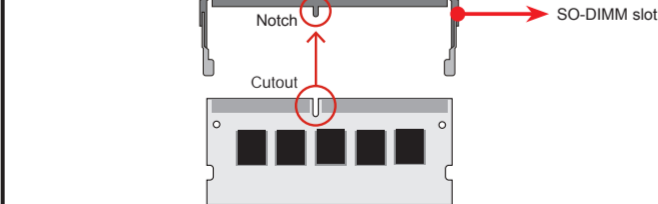
- Connect the fan connector.



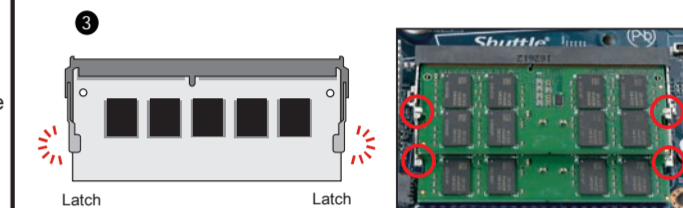
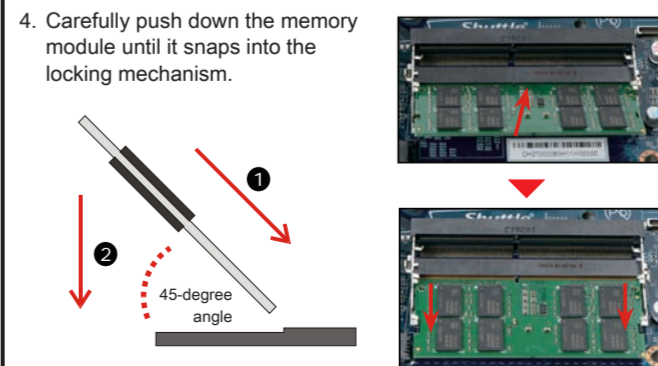
C. Memory Module Installation

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

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



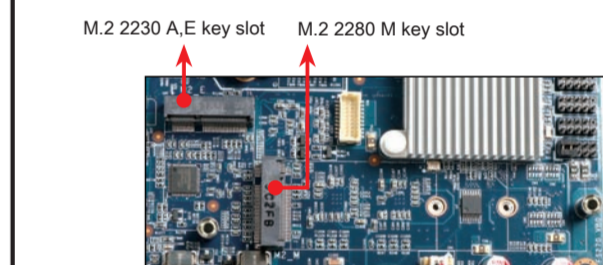
- Gently insert the module into the slot in a 45-degree angle.



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

D. Component Installation

- As shown in Illustration.



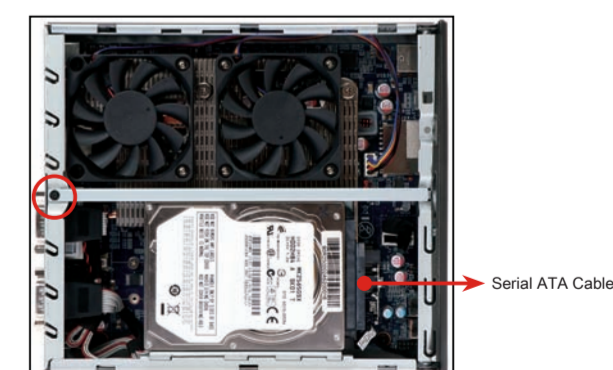
- Install the M.2 card in the M.2 slot and secure with the screw.



- Place a HDD or SSD in the rack and secure with four screws from the sides.



- Connect the Serial ATA to the HDD or SSD. Slide the rack into the chassis and refasten the screws.



E. Complete

- Replace the cover and refasten the screws.



- Complete.

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