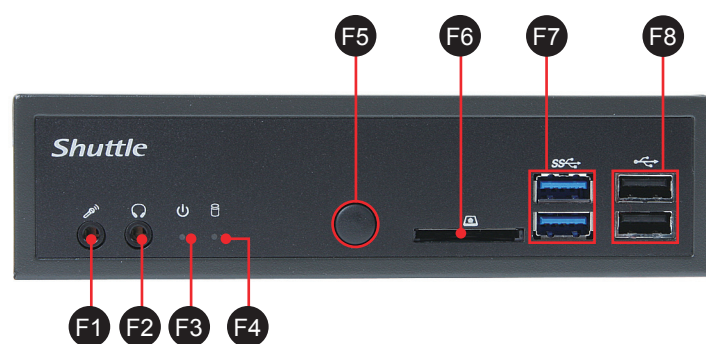


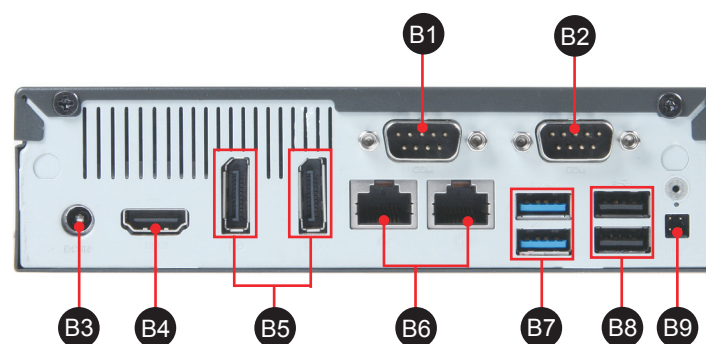
DH170 Series Quick Guide 【English】

Front Panel



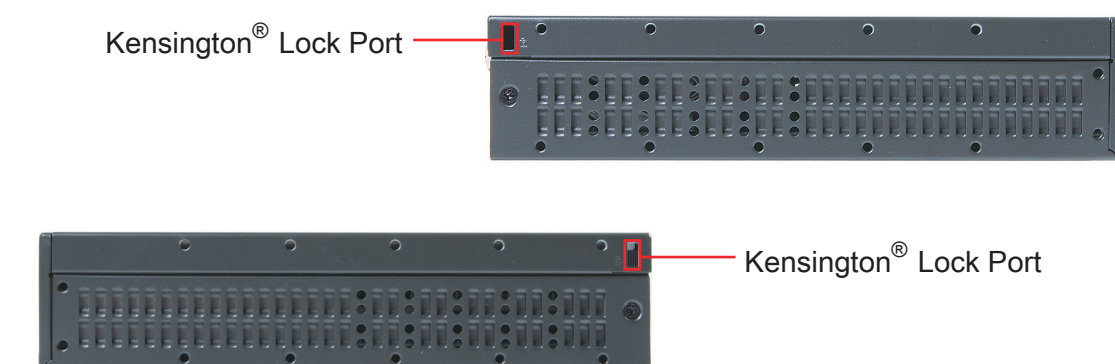
- F1. MIC-in
- F2. Headphone
- F3. Power LED
- F4. HDD LED
- F5. Power Button
- F6. SD Card Reader
- F7. USB 3.0 Port
- F8. USB 2.0 Port

Back Panel

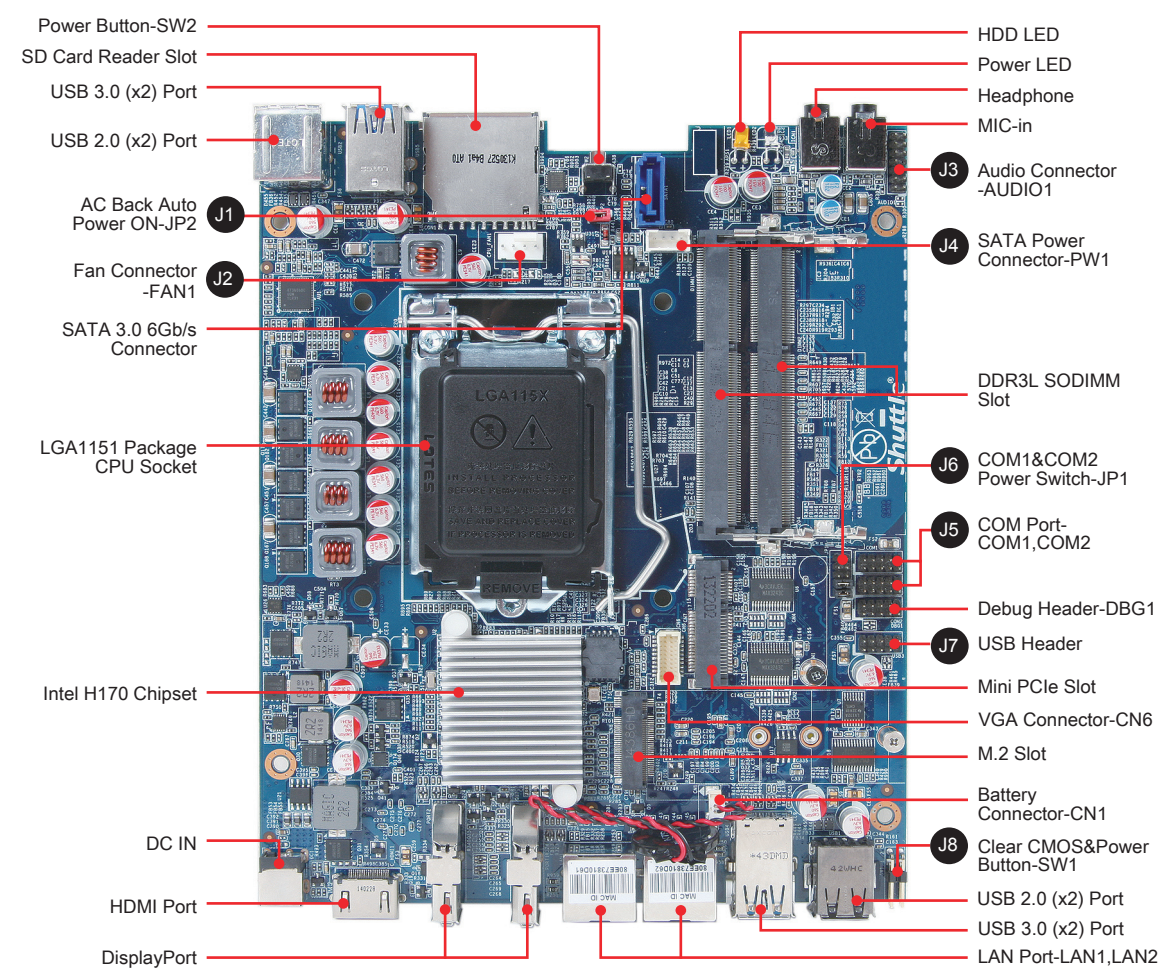


- B1. COM1 Port (RS232/RS422/RS485)
- B2. COM2 Port (RS232 only)
- B3. Power Jack (DC IN)
- B4. HDMI Port
- B5. DisplayPort
- B6. LAN Port
- B7. USB 3.0 Port
- B8. USB 2.0 Port
- B9. Clear CMOS & Power Button

Left / Right Panel



Motherboard Illustration

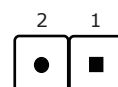


Jumper Settings

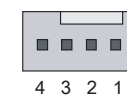
J1 AC Back Auto Power ON

DEFAULT =>Disable, short 1-2

JP2	
Pin	Signal Name
1	U26C_pin10
2	GND



J2 Fan Connector



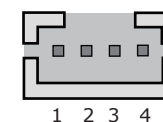
FAN1	
Pin	Signal Name
1	Ground
2	+12V
3	SPEED_SENSE
4	PWM_CTRL

J3 Audio Connector

14	●	●	13
12	●	●	11
10	●	●	9
8	●	●	7
6	●	●	5
4	●	●	3
2	●	●	1

AUDIO1			
Pin	Signal Name	Pin	Signal Name
1	AGND	2	LINE-R
3	NA	4	LINE-L
5	AGND	6	FRONT_L
7	NULL	8	FRONT_SENSE
9	AGND	10	FRONT_R
11	BK_AUDIO-JD	12	MIC1_R
13	AGND	14	MIC1_L

J4 SATA Power Connector



PW1	
Pin	Signal Name
1	GND
2	GND
3	+5V
4	+5V

J5 COM Port

2	4	6	8	10
1	3	5	7	9

COM1 & COM 2			
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

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.

J6 COM1 & COM2 Power Switch

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

JP1			
Pin	Signal Name	Pin	Signal Name
1	-XRI1(NA)	2	COM_-XRI1(NA)
3	-XRI2(NA)	4	COM_-XRI2(NA)
5	+5V	6	+5V
7	COM1_PWR	8	COM2_PWR
9	+12V	10	+12V

10	●	9
8	●	7
6	●	5
4	●	3
2	●	1

J7 USB Header

USB3			
Pin	Signal Name	Pin	Signal Name
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

2	4	6	8	10
1	3	5	7	9

J8 Clear CMOS & Power Button

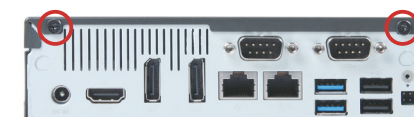
SW1			
Pin	Signal Name	Pin	Signal Name
1	RTCRST-	2	+5V
3	GND	4	PWRSW-

2	4
1	3

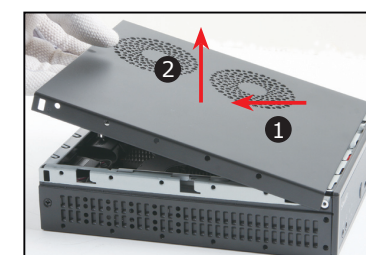
A. Begin Installation

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

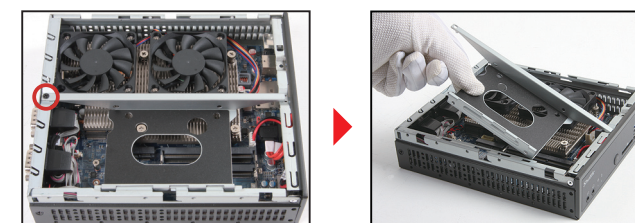
1. Unscrew the two screws of the chassis cover.



2. Slide the cover backwards and upwards.

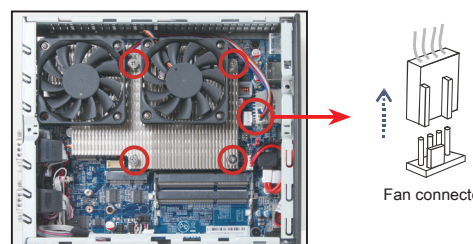


3. Unfasten the rack mount screw and remove the rack.



B. CPU and ICE Module Installation

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

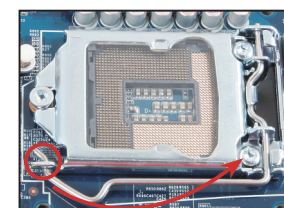


2. Remove the ICE module from the chassis and put it aside.

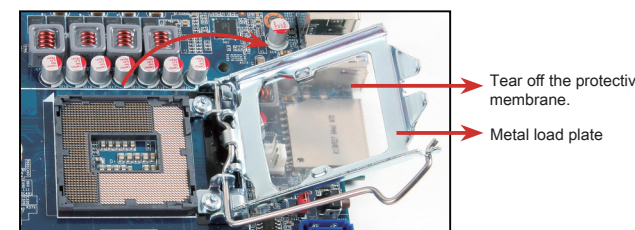
Please note the pins of the LGA 1151 socket bend easily. Always apply extreme care and little force when installing a CPU and limit the number of times you remove or exchange it. Before installation, make sure to turn off the computer and unplug the power cord from the mains to avoid damage.

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

3. First unlock and raise the socket lever.

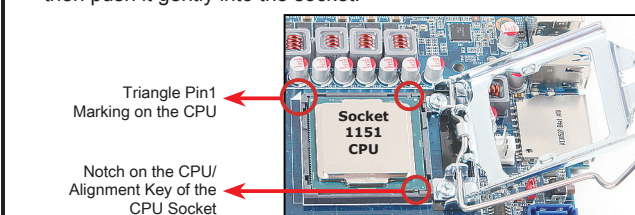


4. Tear off the protective membrane from the metal load plate. Lift the metal load plate from the CPU socket.



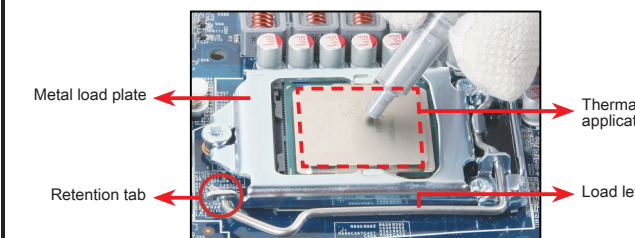
DO NOT touch socket contacts. To protect the CPU socket, always replace the protective socket cover when the CPU is not installed.

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 and damage of the CPU!

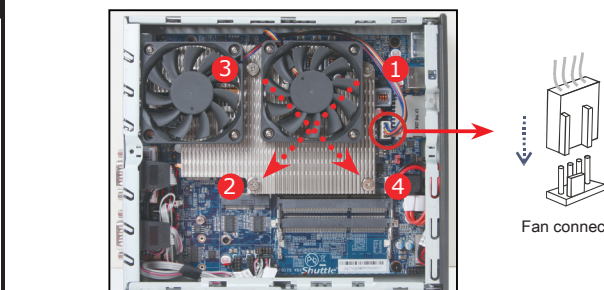
6. Close the metal load plate, lower the CPU socket lever and lock in place.
7. Spread thermal paste evenly on the CPU surface.



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.

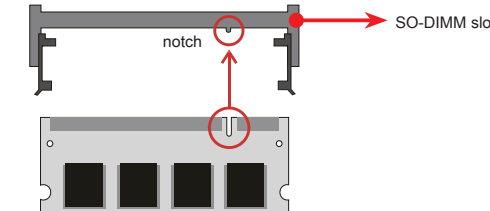
9. Connect the fan connector.



C. Memory Module Installation

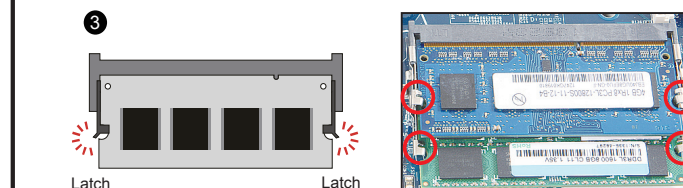
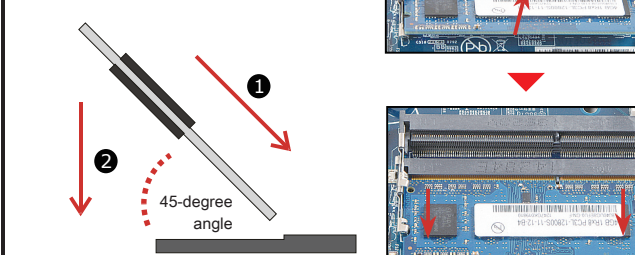
This mainboard does only support 1.35V DDR3L SO-DIMM memory modules.

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.

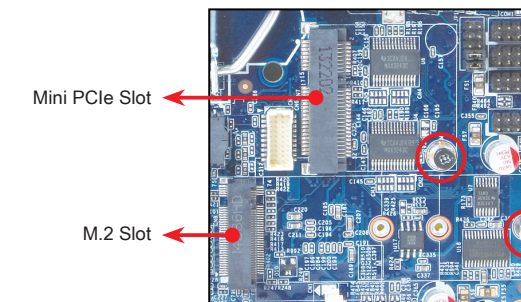
4. Carefully push down the memory module until it snaps into the locking mechanism.



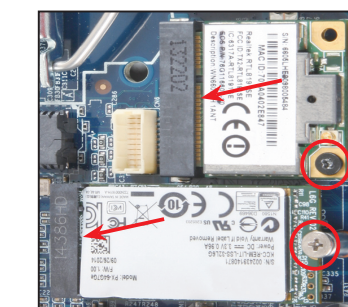
5. Repeat the above steps to install additional memory modules, if required.

D. Component Installation

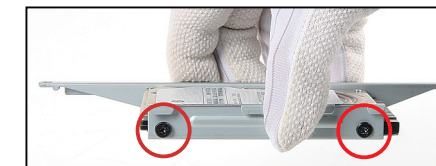
1. As shown, unfasten the screw first.



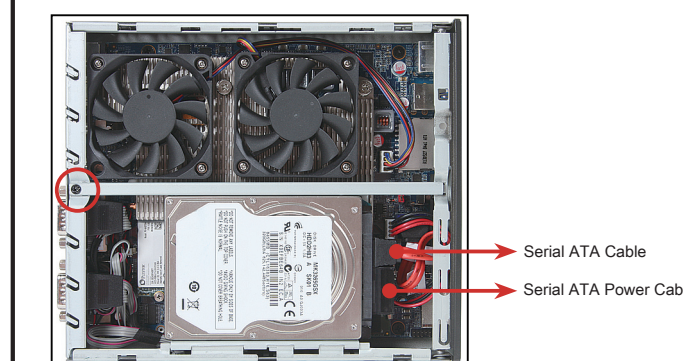
2. Install the Mini PCIe card / M.2 SSD into the Mini PCIe slot / M.2 slot and secure with the screw.



3. Place a HDD or SSD in the rack and secure with the four screws from the side.



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



E. Complete

1. Replace the cover and refasten the screws.



2. Complete.

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