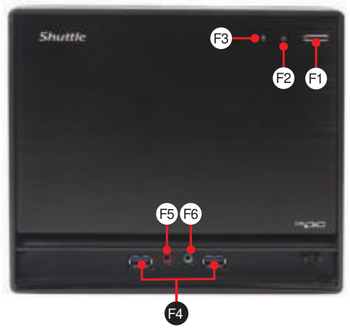
SZ270R8 Quick Guide 【 English 】

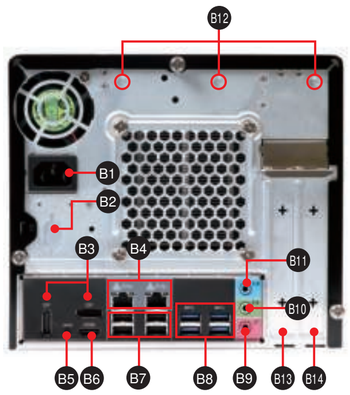
62RQSZ2700-5202 SZ270R8
English.Spanish.Russian.
Traditional Chinese.Japanese.
French. German Quick Guide

Front Panel



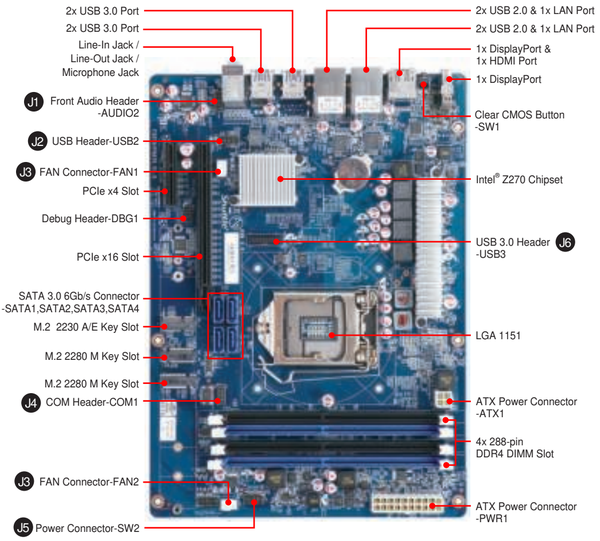
F1. Power Button
F2. Power LED
F3. HDD LED
F4. USB 3.0 Port
F5. Mic-In
F6. Headphones

Back Panel



B1. AC Power Socket
B2. Serial Port (Optional)
B3. DisplayPort
B4. LAN Port
B5. Clear CMOS Button
B6. HDMI Port
B7. USB 2.0 Port
B8. USB 3.0 Port
B9. Microphone Jack
B10. Line-Out Jack
B11. Line-In Jack
B12. Wireless LAN Perforation (Optional)
B13. PCIe x16 Slot
B14. PCIe x4 Slot

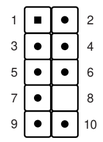
Motherboard Illustration



Jumper Settings

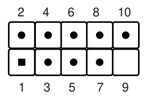
J1 Front Audio Header (AUDIO2)

1= MIC_L	2= GND
3= MIC_R	4= Front_Detect
5= LINE_R	6= Mic_detect
7= Sense	8= NULL
9= LINE_L	10= Line_Detect



J2 USB Header (USB2)

1= 5V_USB	2= 5V_USB
3= USB_A_N	4= USB_B_N
5= USB_A_P	6= USB_B_P
7= GND	8= GND
9= NULL	10= GND

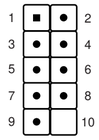


J3 Fan Connectors (FN1,FN2)

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

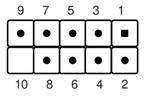
J4 COM Header (COM1)

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



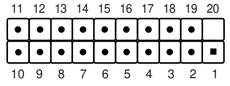
J5 Power Connector (SW2)

1= +HD_LED	2= PWR_LED
3= -HD_LED	4= GND
5= RST_SW	6= PWR_SW
7= GND	8= GND
9= NA	10= NULL



J6 USB 3.0 Header (USB3)

1= 5VCC	2= A_RX_N
3= A_RX_P	4= GND
5= A_TX_N	6= A_TX_P
7= GND	8= A_USB_N
9= A_USB_P	10= NA
11= B_USB_P	12= B_USB_N
13= GND	14= B_TX_P
15= B_TX_N	16= GND
17= B_RX_P	18= B_RX_N
19= 5VCC	20= NULL



Safety Information

Read the following precautions before setting up a Shuttle XPC.

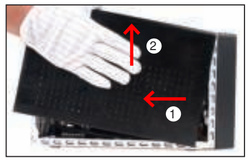
CAUTION

Incorrectly replacing the battery may damage this computer. Replace only with the same or equivalent as recommended by Shuttle. Disposal 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.

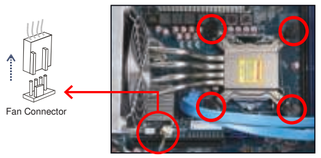
1. Unscrew three thumbscrews of the chassis cover.
2. Slide the cover backwards and upwards.



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

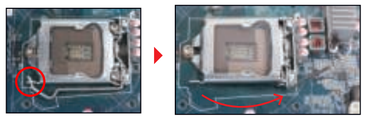


3. Remove the ICE module from the chassis and put it aside.

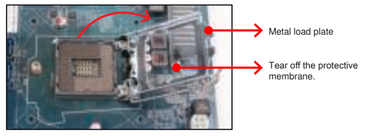
⚠ This 1151-pin socket is fragile and easily damaged. Always use extreme care when installing a CPU and limit the number of times that you remove or change the CPU. Before installing the CPU, make sure to turn off the computer and unplug the power cord from the power outlet to prevent damage of the CPU.

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

4. First unlock and raise the socket lever.

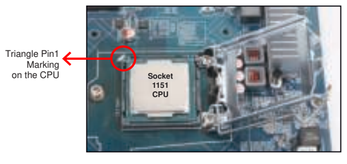


5. Tear off the protective membrane from the metal load plate. Lift the metal load plate on the CPU socket.



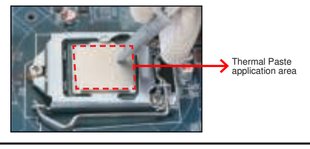
⚠ DO NOT touch socket contacts. To protect the CPU socket, always replace the protective socket cover when the CPU is not installed.

6. 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.



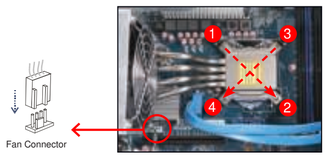
⚠ Please be aware of the CPU orientation, DO NOT force the CPU into the socket to avoid bending of pins and damage of CPU!

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

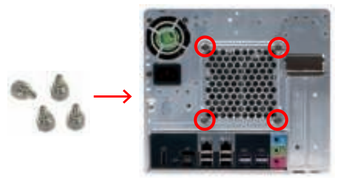


⚠ Please do not apply excess amount of thermal paste.

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.



11. Fasten the Smart Fan to the chassis with the four thumbscrews.



C. Memory Module Installation

➢ Guidelines for Memory Configuration

Before installing DIMMs, read and follow these guidelines for memory configuration.

⚠ Make sure that the motherboard supports the memory.
It is recommended that memory of the same capacity, brand, speed, and chips are used.
(Go to Shuttle's website for the latest memory support list.)
Memory modules have a foolproof design. A memory module can be installed in only one direction. If you are unable to insert the memory, switch the direction.

➢ Dual-Channel mode Population Rule

In Dual-Channel mode, the memory modules can transmit and receive data with two data bus lines simultaneously. Enabling Dual-Channel mode can enhance the system performance. The following illustrations explain the population rules for Dual-Channel mode.

Ⓐ

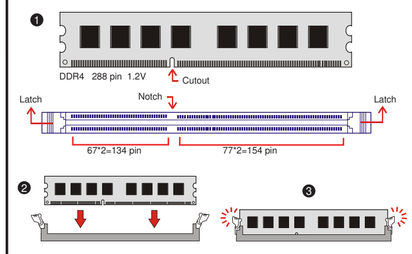
Ⓑ

➢ Installing a memory module

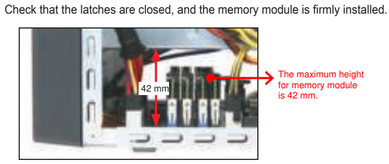
DDR4 and DDR3/DDR2 DIMMs are not compatible to one another or other DDR DIMMs.
Be sure to install only DDR4 DIMMs on this motherboard. Follow the steps below to correctly install your memory modules in the memory sockets.

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

⚠ A DDR4 memory module has a cutout, so it only fits in one direction.



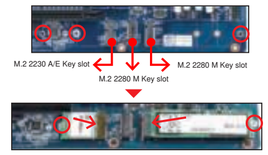
3. Check that the latches are closed, and the memory module is firmly installed.



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

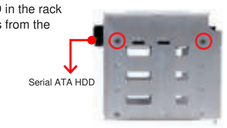
D. Installation of M.2 expansion cards

1. As shown in Illustration.
2. Install the M.2 card in the M.2 slot and secure with a screw.

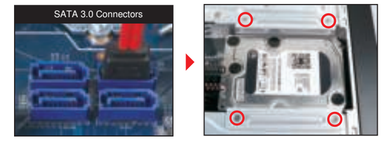


E. Installation of Drives

1. Loosen the purse lock and separate the Serial ATA and power cables.
2. Place the HDD or SSD in the rack and secure with screws from the sides.

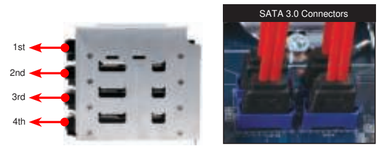


3. Connect the Serial ATA Cable with the motherboard.
4. Place the rack in the chassis and refasten the rack.



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

6. Repeat these steps to install up to four 3.5" HDDs, if desired.

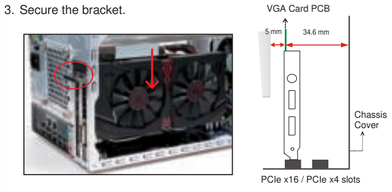


F. Installation of Graphics Cards

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

⚠ The maximum permitted size for display cards is 267 mm x 120 mm x 34.6 mm.

2. Install the PCIe x4 / PCIe x16 card into the PCIe x4 / PCIe x16 slots.
3. Secure the bracket.



G. 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.

The product's colour and specifications may vary from the actually shipping product.

53R-SZ2703-H002