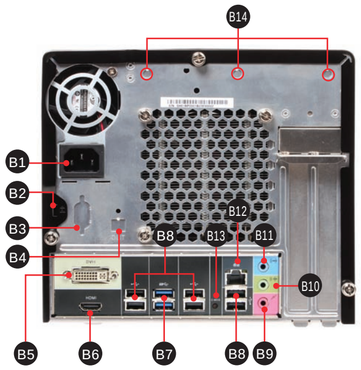
62R-SH8100-5201
English,Spanish,Korean.
Traditional Chinese,Japanese.
French, German Quick Guide

SH81R4/SH81J4 Series Quick Guide【English】

Front Panel

F1. HDD LED
F2. Power Button / Power LED
F3.5.25" Bay
F4. USB2.0 Ports
F5. Microphone
F6. Headphone

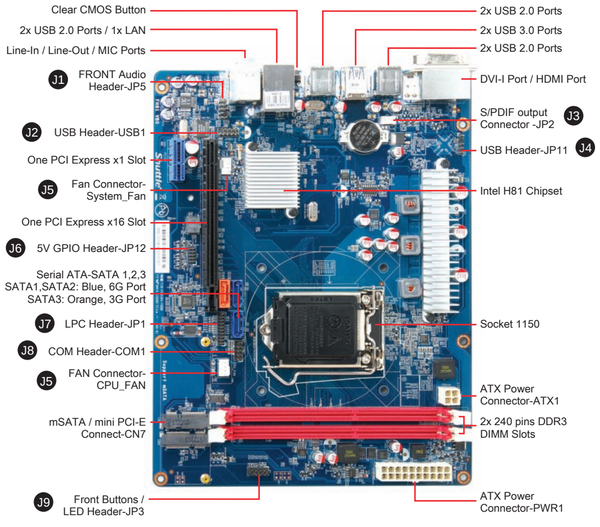
Back Panel



B1. AC Power Socket
B2. Kensington Lock
B3. Serial Port Perforation (Optional)
B4. SPDIF Out Port (Optional)
B5. DVI-I Port
B6. HDMI Port
B7. USB3.0 Ports
B8. USB2.0 Ports
B9. Microphone Jack
B10. Line-Out Jack
B11. Line-In Jack
B12. LAN Port
B13. Clear CMOS Button
B14. Wireless LAN Perforation

⚠ DVI-I / HDMI Port cannot be used, if the PCI Express graphics card is installed.

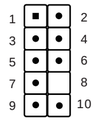
Motherboard Illustration



Jumper Settings

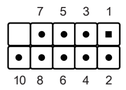
J1 Front Audio Header (JP5)

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

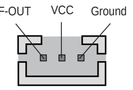


J2 USB Header (USB1)

1=5V_USB	2=5V_USB
3=USB A-	4=USB B-
5=USB A+	6=USB B+
7=Ground	8=Ground
	10=Ground

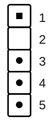


J3 S/PDIF output Connector (JP2)

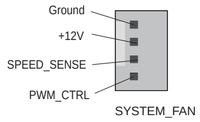


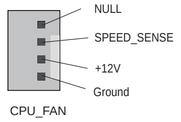
J4 USB Header (JP11)

1=5V_USB
2=NULL
3=USB D-
4=USB D+
5=Ground



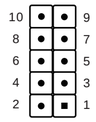
J5 Fan Connectors





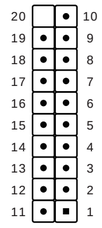
J6 5V GPIO Header (JP12)

1=5V	2=GND
3=GPI-1	4=GPO-1
5=GPI-2	6=GPO-2
7=GPI-3	8=GPO-3
9=GPI-4	10=GPO-4



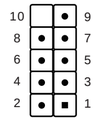
J7 LPC Header (JP1)

1=+12V	11=-12V
2=5V	12=3VSB
3=5VSB	13=Ring
4=SERIRQ	14=LDRQ0
5=CLK_48M	15=SIO_PME
6=CLK_33M	16=LAD1
7=SIO_RST	17=LAD0
8=LFRAME	18=+3.3V
9=LAD3	19=GND
10=LAD2	20=NULL



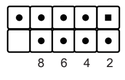
J8 COM Header (COM1)

1=DCD	2=RXD
3=TXD	4=DTR
5=Ground	6=DSR
7=RTS	8=CTS
9=Ring	10=NULL



J9 Front Buttons / LED Header (JP3)

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

Laser compliance statement

The optical disc drive in this PC is a laser product.
The drive's classification label is located on the drive.

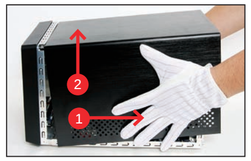
CLASS 1 LASER PRODUCT

CAUTION: INVISIBLE LASER RADIATION WHEN OPEN.
AVOID EXPOSURE TO BEAM.

A. Begin Installation

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

1. Unscrew 3 thumbscrews of the chassis cover.
2. Slide the cover backwards and upwards.

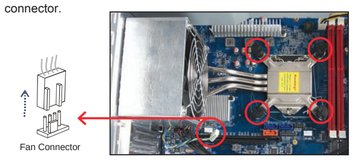


3. Unfasten the rack mount screws and remove the rack.

B. CPU and ICE Installation

⚠ The SH81J4 does not feature a CPU heatpipe cooling as standard which requires users to install an Intel standard cooler instead.

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.

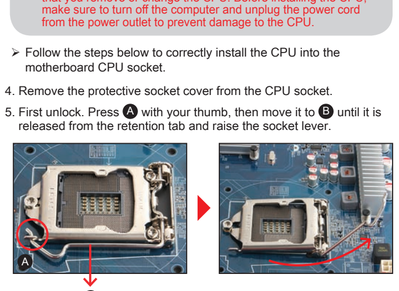


3. Remove the ICE module from the chassis and put it aside.

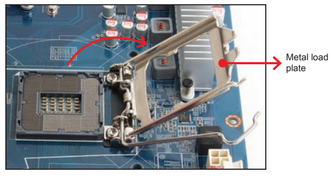
⚠ This 1150 pin socket is fragile and easily damaged. Always use extreme care when installing a CPU and limit the number of times that you remove or change the CPU. Before installing the CPU, make sure to turn off the computer and unplug the power cord from the power outlet to prevent damage to the CPU.

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

4. Remove the protective socket cover from the CPU socket.
5. First unlock. Press Ⓐ with your thumb, then move it to Ⓑ until it is released from the retention tab and raise the socket lever.

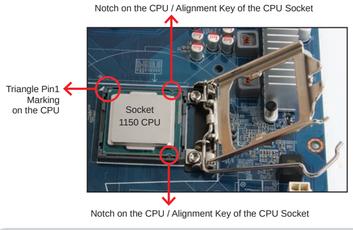


6. Lift the metal load plate on the CPU socket.



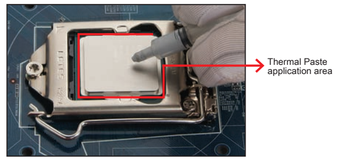
⚠ DO NOT touch socket contacts. To protect the CPU socket, always replace the protective socket cover when the CPU is not installed.

7. Orientate the CPU and socket, you may align the CPU notches with the socket alignment keys. Make sure the CPU is perfectly horizontal, insert the CPU into the socket.



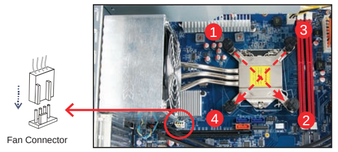
⚠ Please be aware of the CPU orientation, DO NOT force the CPU into the socket to avoid bending of pins on the socket and damage of CPU!

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

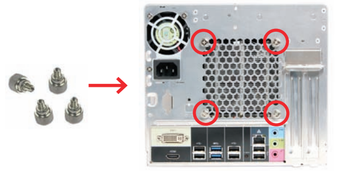


⚠ Please do not apply excess amount of thermal paste.

10. Screw the ICE module to the mainboard. Note to press down on the opposite diagonal corner while tightening each screw.
11. Connect the fan connector.



12. Fasten the Smart Fan to the chassis with the 4 thumbscrews.



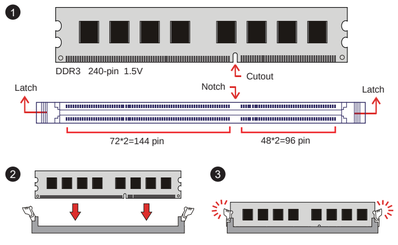
C. Memory module Installation

➢ Installing a memory module

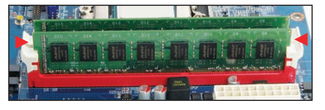
DDR3 DIMMs are not compatible with DDR/DD2 or DDR DIMMs.
Be sure to install DDR3 DIMMs on this motherboard. Follow the steps below to correctly install your memory modules in the memory sockets.

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 DDR3 memory module has a cutout, so it can only fit in one direction.



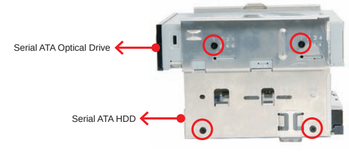
3. Check that the latches are closed, and the memory module is firmly installed.



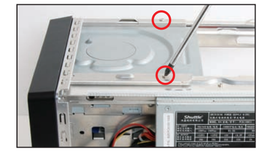
⚠ Repeat the above steps to install additional memory modules, if required.

D. Peripheral Installation

1. Loosen the purse lock and separate the Serial ATA power cables.
2. Place the HDD and optical drive in the rack and secure with screws from the side.

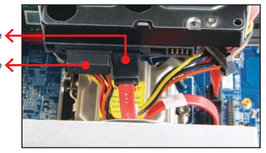


3. Remove the front bay cover.
4. Place the rack in the chassis and refasten the rack.

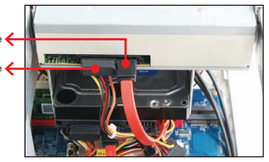


5. Plug the SATA cables in the SATA headers.

6. Connect the Serial ATA and power cables to the HDD.



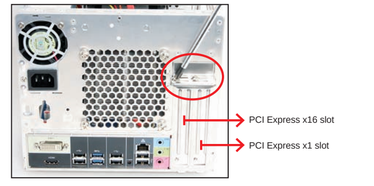
7. Connect the Serial ATA and power cables to the optical drive.



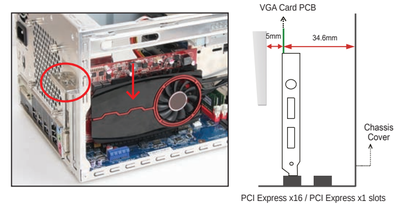
E. Accessories Installation

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

⚠ The maximum size acceptable for display cards is 267mm x 98mm x 34.6mm.



2. Install the PCI Express x1/ PCI Express x16 card into the PCI Express x1 / PCI Express x16 slots.
3. Secure the bracket.



F. Complete

1. Replace the cover and refasten the thumbscrews.

2. Complete.

⚠ Please press "Del" key while booting to enter BIOS and load the optimised BIOS settings.

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