XG41 Quick Guide 【 English 】

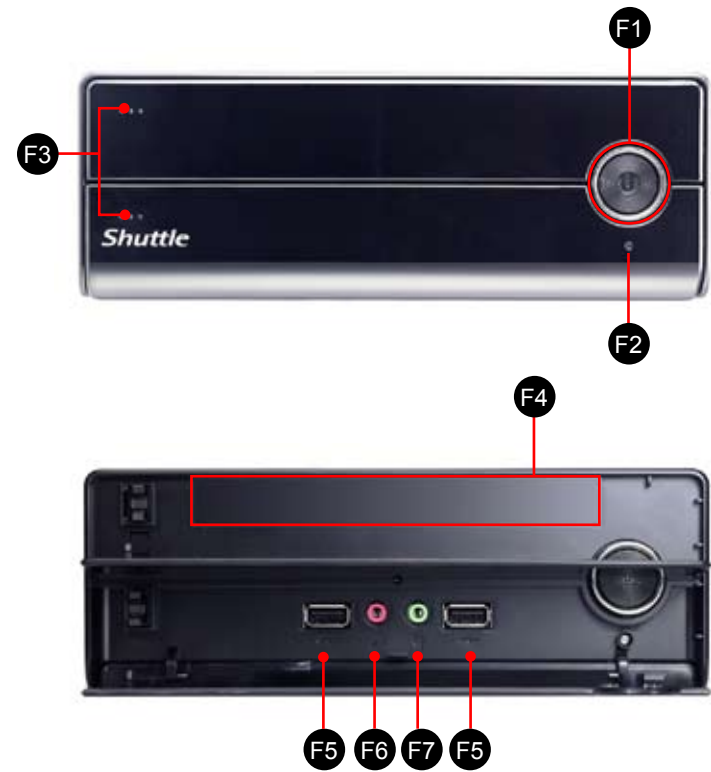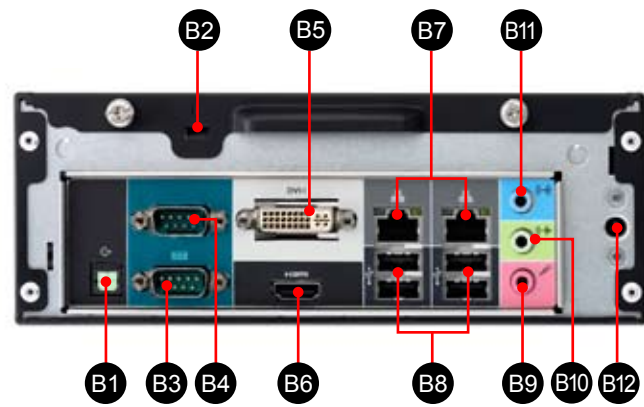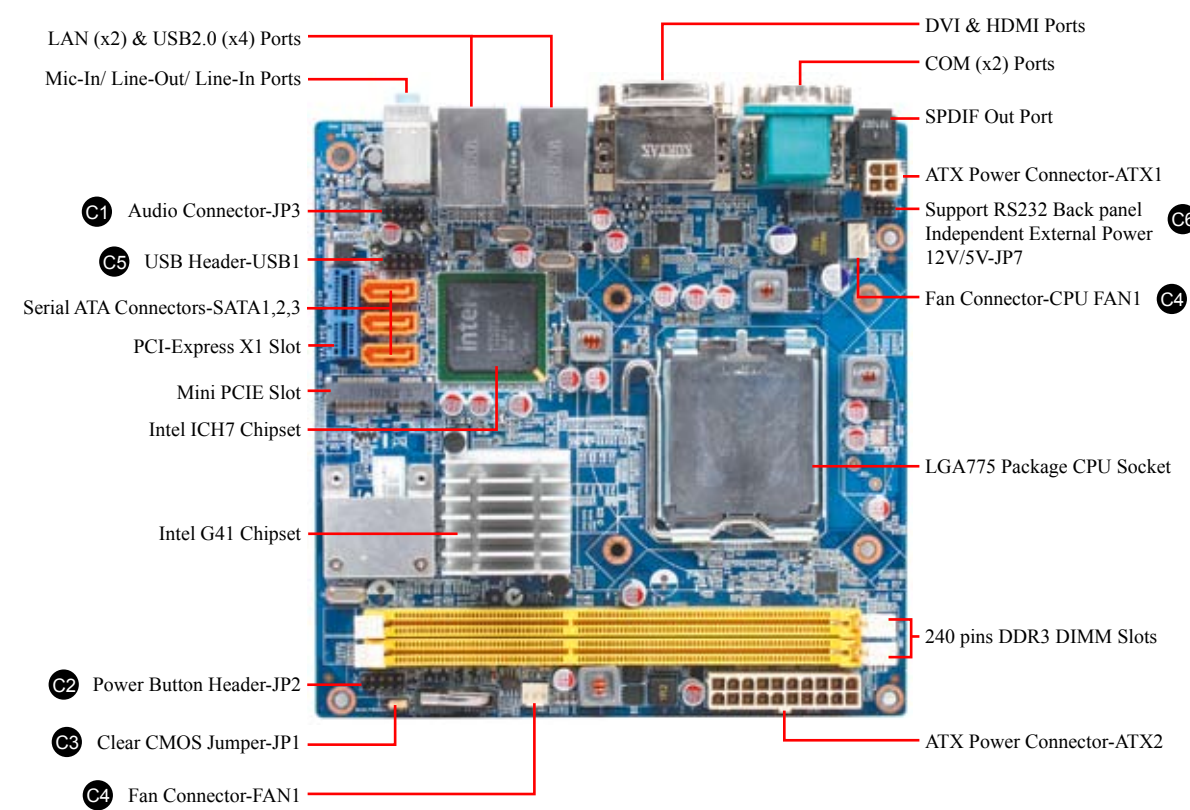## Front Panel

F1. Power Switch / Power LED
F2. HDD LED
F3. ODD and Front I/O Bay
F4. Slim ODD Bay
F5. USB2.0 Ports
F6. Mic-In
F7. Headphone

Back Panel

B1. SPDIF Out Port
B2. Kensington® Lock Port
B3. COM1 Port (RS232/RS422/RS485)
B4. COM2 Port (RS232)
B5. DVI-I Port
B6. HDMI Port
B7. LAN Ports
B8. USB2.0 Ports
B9. Mic-In Port
B10. Line-Out Port
B11. Line-In Port
B12. DC Power Port

Motherboard Illustration

LAN (x2) & USB2.0 (x4) Ports
Mic-In/ Line-Out/ Line-In Ports
DVI & HDMI Ports
COM (x2) Ports
SPDIF Out Port
ATX Power Connector-ATX1
C1 Audio Connector-JP3
C5 USB Header-USB1
Serial ATA Connectors-SATA1,2,3
Support RS232 Back panel Independent External Power 12V/5V-JP7 C6
PCI-Express X1 Slot
Mini PCIE Slot
Intel ICH7 Chipset
Fan Connector-CPU FAN1 C4
LGA775 Package CPU Socket
Intel G41 Chipset
240 pins DDR3 DIMM Slots
C2 Power Button Header-JP2
C3 Clear CMOS Jumper-JP1
ATX Power Connector-ATX2
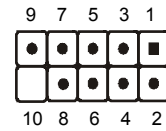C4 Fan Connector-FAN1

Jumper Settings

C1 Audio Connector

Pin Assignments (JP3):

1=MIC2_L
2=AGND
3=MIC2_R
4=FRONT-JD
5=LINE2-R
6=SENSE1_RETURN
7=FRONT_SENSE
8=KEY
9=LINE2-L
10=SENSE2_RETURN
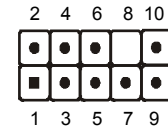
C2 Power Connector

Pin Assignments (JP2):

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

C3 Clear CMOS Jumper
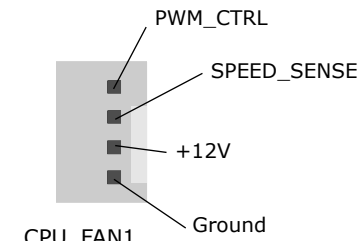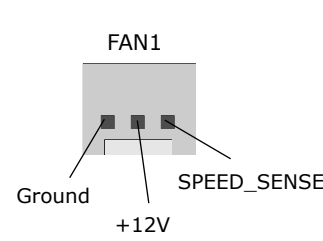
Pin Assignments (JP1):

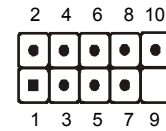1=UL_BAT_PWR
2=-RTCRST
3=-RTCBTN

Pin1-2 (BAT_POWER Mode)   Pin2-3 (Clear CMOS Mode)

C4 FAN Connectors (CUP_FAN,FAN1)

FAN1
Ground
SPEED_SENSE
+12V

PWM_CTRL
SPEED_SENSE
+12V
CPU_FAN1
Ground

### C5 USB Header

Pin Assignments (USB1):

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

C6 Support RS232 Back panel Independent External Power 12V / 5V

JUMP1 Connector Pin 1 and Pin 2 = RI1 Signal.
JUMP2 Connector Pin 3 and Pin 4 = RI2 Signal.
IF JUMP1 Connector Pin 5 and Pin 7 = RI1 is VCC
IF JUMP2 Connector Pin 6 and Pin 8 = RI2 is VCC
IF JUMP1 Connector Pin 7 and Pin 9 = RI1 is 12V
IF JUMP2 Connector Pin 8 and Pin 10 = RI2 is 12V

Pin Assignments (JP7):

1=-XRI1   2=COM_-XRI1
3=-XRI2   4=COM_-XRI2
5=VCC   6=VCC
7=COM1_PWR   8=COM2_PWR
9=12V   10=12V
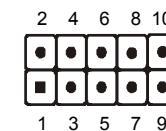
➤ Safety Information

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.
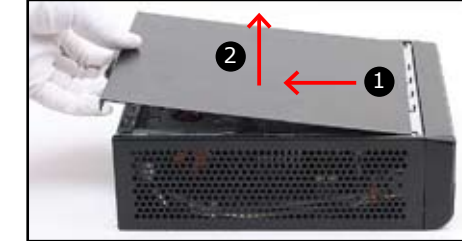AVOID EXPOSURE TO BEAM.

A. Begin Installation

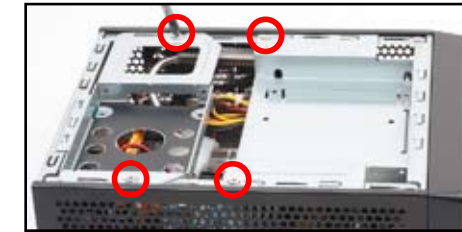⚠ For safety reasons, please ensure that the power cord is disconnected before opening the case.

1. Unscrew 2 thumbscrews of the chassis cover.

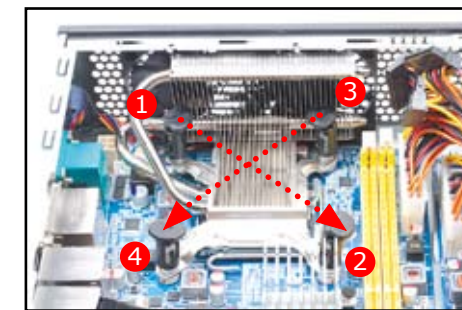2. Slide the cover backwards and upwards.

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.

⚠ Rotating the fastener along the direction of arrow is to remove the ICE module, on the contrary, is to install.
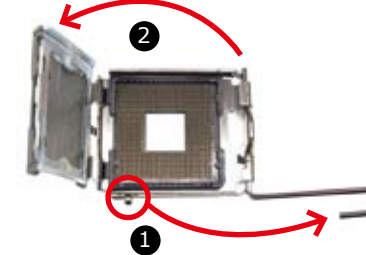

2. Remove the ICE module from the chassis and put it aside.

⚠ This 775 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.

3. First unlock and raise the socket lever.

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

5. Orientate the CPU and socket, aligning the yellow triangle on the corner of the CPU with the triangle on the socket. Make sure the CPU is perfectly horizontal, insert the CPU into the socket.

6. Remove the protective socket cover. Close the load plate, lower the CPU socket lever and lock in place.

LGA775 Processor
Lever
Triangle Markings
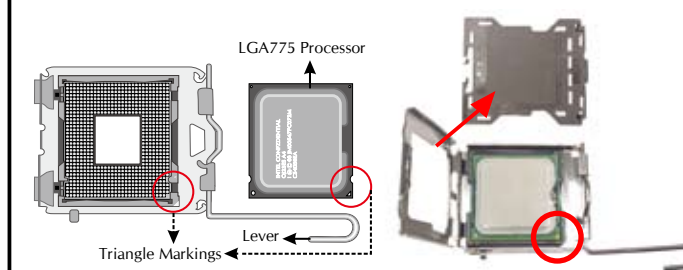
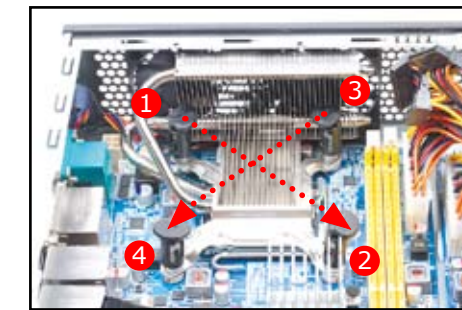⚠ Failure to correctly align the CPU and socket can result in damage to the CPU.

7. Spread an even layer of thermal compound on the CPU die.
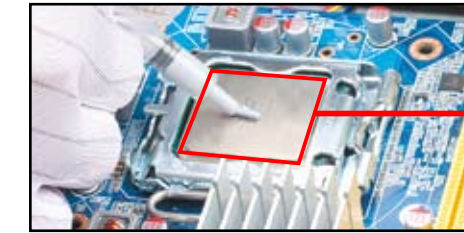
Thermal Paste application area

⚠ Please do not use too much Heatsink compound.

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

C. DDR3 Installation

1. Unlock the DIMM latch.
2. Align the DDR3 module's cutout with the DIMM slot notch. Slide the DDR3 module into the DIMM slot.

DDR3 240-pin 1.5V
Latch   Notch   Cutout   Latch
72*2=144 pin   48*2=96 pin
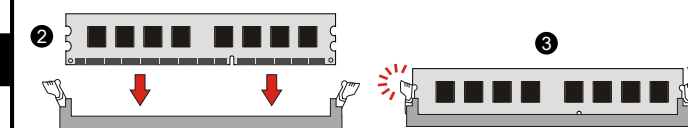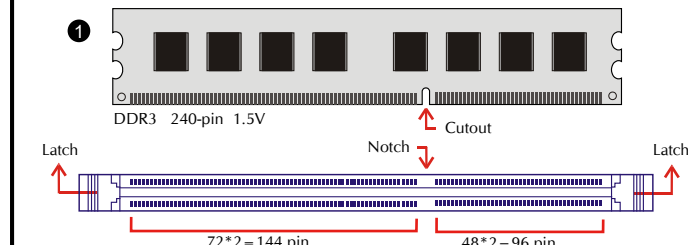
3. Check that the latches are closed, and the DDR3 modules are firmly installed.
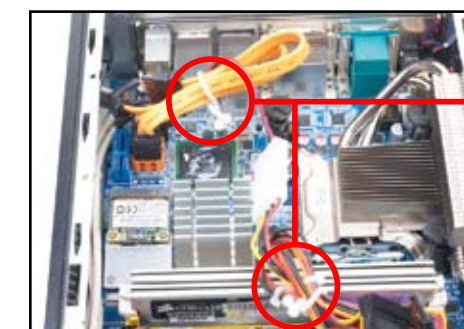
⚠ Repeat to install additional DDR3 modules if desired.

D. Component Installation

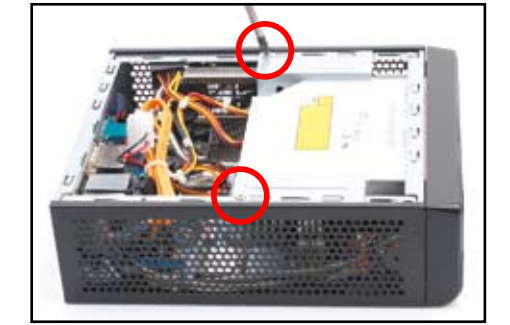1. Install the Mini PCIE card into the Mini PCIE slot and secure with screws.
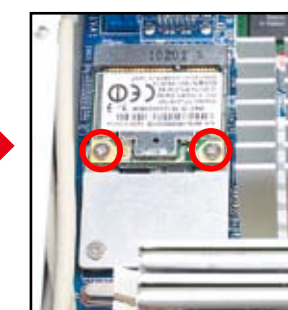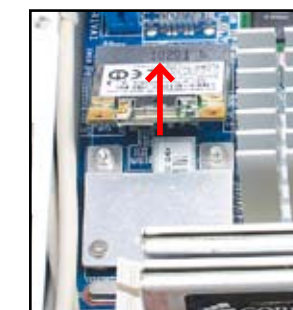
2. Untie all cables for easier installation.
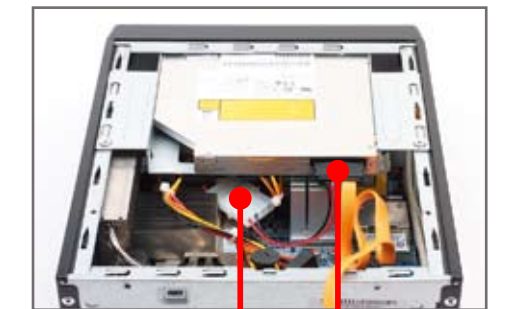

Purse lock

3. Place the Slim DVD in the rack and secure with screws from the side.

4. Slide the rack downward and onward in replace the chassis and refasten the two screws.

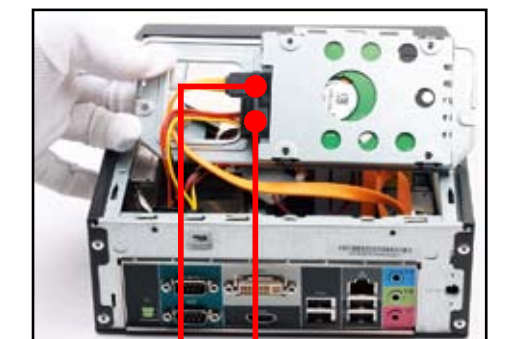5. Connect the ODD cable and power cable to optical drive.

Power Cable   Slimline SATA Cable

6. Place the HDD in the rack and secure with screws from the side.

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

Serial ATA Cable   Serial ATA Power Cable

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 load the optimized BIOS values.