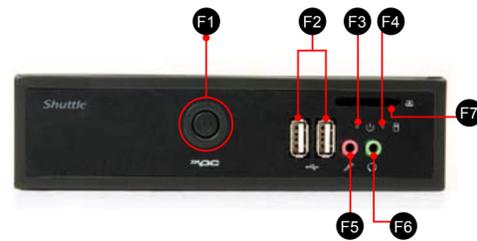
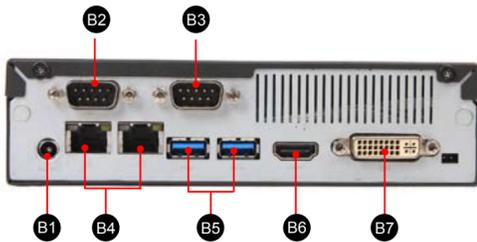


Front Panel



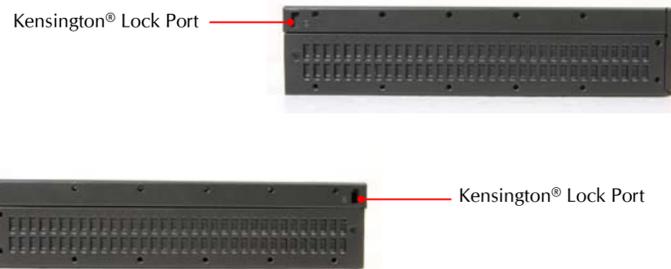
- F1. Power Button
- F2. USB2.0 Ports
- F3. Power LED
- F4. HDD LED
- F5. Mic-In
- F6. Headphone
- F7. SD Card Reader

Back Panel

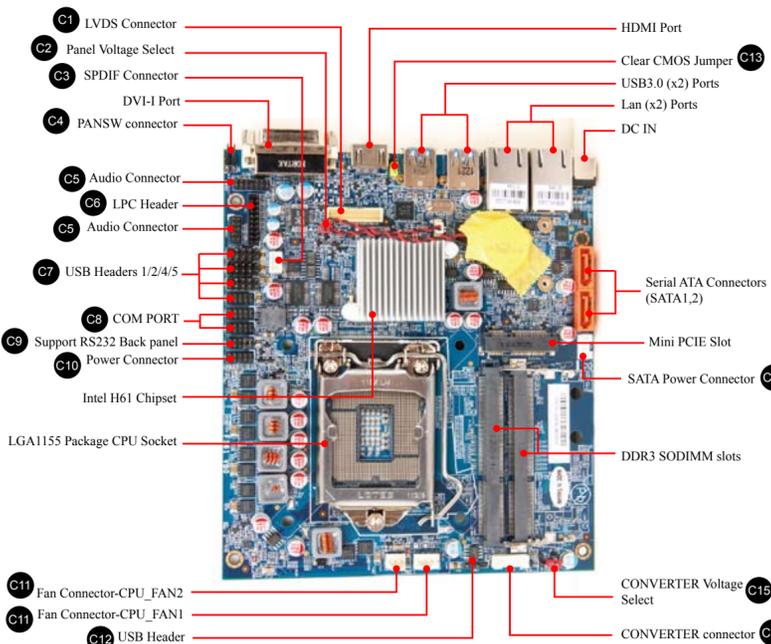


- B1. DC IN
- B2. RS232/RS422/RS485
- B3. RS232
- B4. LAN Ports
- B5. USB3.0 Ports
- B6. HDMI Port
- B7. DVI-I Port

Left / Right Panel



Motherboard Illustration



Jumper Settings

- C1 LVDS Connector**
Pin Assignments (LVDS1):
- | | | | |
|-------------|---------------|---------------|-------------|
| 1=LVDS_DCLK | 11=GND | 21=LVDS_BCK_N | 31=LVDS_B1P |
| 2=GND | 12=GND | 22=LVDS_ACK_N | 32=LVDS_A1P |
| 3=LVDS_DDAT | 13=LVDS_B3P | 23=GND | 33=LVDS_B1N |
| 4=NC | 14=LVDS_A3P | 24=GND | 34=LVDS_A1N |
| 5=ANEL_VDD | 15=LVDS_B3N | 25=LVDS_B2P | 35=GND |
| 6=GND | 16=LVDS_A3N | 26=LVDS_A2P | 36=GND |
| 7=ANEL_VDD | 17=GND | 27=LVDS_B2N | 37=LVDS_B0P |
| 8=BKLTEN | 18=GND | 28=LVDS_A2N | 38=LVDS_A0P |
| 9=ANEL_VDD | 19=LVDS_BCK_P | 29=GND | 39=LVDS_B0N |
| 10=PWMO | 20=LVDS_ACK_P | 30=GND | 40=LVDS_A0N |

- C2 Panel Voltage Select**
Pin Assignments (JP4):
- 1=+3.3V
 - 2=Panel_VDD
 - 3=+5V
- C3 SPDIF connector**
Pin Assignments (SPDIF1):
- 1=GND
 - 2=+5V
 - 3=S/PDIF-OUT

- C4 PANSW connector**
Pin Assignments (SW2):
- 1=GND
 - 2=PWR_SW

- C5 Audio Connector**
Pin Assignments (AUDIO1):
- 1=MIC2_L
 - 2=AGND
 - 3=MIC2_R
 - 4=FRONT-JD
 - 5=LINE2-R
 - 6=SENSE1_RETURN
 - 7=FRONT_SENSE
 - 8=NC
 - 9=LINE2-L
 - 10=SENSE2_RETURN
- Pin Assignments (AUDIO2):
- 1=PULL AGND
 - 2=LINE-R
 - 3=NC
 - 4=LINE-L
 - 5=PULL AGND
 - 6=FRONT_L
 - 7=NC
 - 8=FRONT_SENSE
 - 9=PULL AGND
 - 10=FRONT_R
 - 11=BK_AUDIO-JD
 - 12=MIC1_R
 - 13=AGND
 - 14=MIC1_L

- C6 LPC Header**
Pin Assignments (LPC1):
- | | | | |
|-----------|----------|----|----|
| 1=+12V | 11=NC | 19 | 10 |
| 2=5V | 12=3VSB | 18 | 8 |
| 3=5VSB | 13=RI | 17 | 7 |
| 4=SERIRQ | 14=LDRQ | 16 | 6 |
| 5=CLK-48M | 15=PME | 15 | 5 |
| 6=CLK-33M | 16=LAD1 | 14 | 4 |
| 7=SIORST# | 17=LAD0 | 13 | 3 |
| 8=LFRAME | 18=+3.3V | 12 | 2 |
| 9=LAD3 | 19=GND | 11 | 1 |
| 10=LAD2 | 20=NC | | |

- C7 USB Headers**
Pin Assignments (USB1/USB2/USB4/USB5):
- | | | | | | |
|----------|----------|---|---|---|---|
| 1=5V_USB | 2=5V_USB | 7 | 5 | 3 | 1 |
| 3=USB A- | 4=USB B- | 6 | 4 | 2 | |
| 5=USB A+ | 6=USB B+ | | | | |
| 7=GND | 8=GND | | | | |
| 9=NC | 10=NC | | | | |

- C8 COM PORT (COM1&COM2)**
Pin Assignments:
- | | | | | | | |
|-------|-------|---|---|---|---|---|
| 1=DCD | 6=DSR | 9 | 7 | 5 | 3 | 1 |
| 2=RX | 7=RTS | 8 | 6 | 4 | 2 | |
| 3=TX | 8=CTS | | | | | |
| 4=DTR | 9=RI | | | | | |
| 5=GND | 10=NC | | | | | |

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.

- C9 Support RS232 Back panel Independent External Power 12V / 5V**

- JUMP1 Connector Pin 1 and Pin 2 = R11 Signal.
JUMP2 Connector Pin 3 and Pin 4 = R12 Signal.
IF JUMP1 Connector Pin 5 and Pin 7 = R11 is +5V
IF JUMP1 Connector Pin 6 and Pin 8 = R12 is +5V
IF JUMP2 Connector Pin 7 and Pin 9 = R11 is 12V
IF JUMP2 Connector Pin 8 and Pin 10 = R12 is 12V
- Pin Assignments (JP2):
- | | | | |
|------------|-------------|---|----|
| 1=-XRI1 | 2=COM_-XRI1 | 3 | 2 |
| 3=-XRI2 | 4=COM_-XRI2 | 4 | 4 |
| 5=+5V | 6=+5V | 5 | 6 |
| 7=COM1_PWR | 8=COM2_PWR | 7 | 8 |
| 9=+12V | 10=+12V | 9 | 10 |

- C10 Power Connector**
Pin Assignments (SW1):
- | | | | | | | |
|-----------|----------|---|---|---|---|---|
| 1=+HD_LED | 6=PWR_SW | 9 | 7 | 5 | 3 | 1 |
| 2=PWR_LED | 7=GND | 8 | 6 | 4 | 2 | |
| 3=-HD_LED | 8=GND | | | | | |
| 4=GND | 9=NC | | | | | |
| 5=RST_SW | | | | | | |

- C11 Fan Connector-CPU_FAN1,2**
Pin Assignments (FAN1):
- 1=GND
 - 2=+12V
 - 3=SPEED_SENSE
 - 4=PWM_CTRL
- Pin Assignments (FAN2):
- 1=GND
 - 2=FAN_PWM
 - 3=FAN_TAC

- C12 USB Header**
Pin Assignments (USB6):
- | | |
|--------|---|
| 1=GND | 1 |
| 2=NC | 2 |
| 3=USB+ | 3 |
| 4=USB- | 4 |
| 5=VCC | 5 |

- C13 Clear CMOS Jumper**
Pin Assignments (JP1):
- 1=UL_BAT_PWR
 - 2=-RTCST
 - 3=-RTCBTN
- Pin1-2 (Default) (Normal Mode)
Pin2-3 (Clear CMOS Mode)

- C14 SATA Power Connector**
Pin Assignments (PW1):
- 1=GND
 - 2=GND
 - 3=+5V
 - 4=+5V

- C15 CONVERTER Voltage Select**
Pin Assignments (JP3):
- 1=+12V
 - 2=INV_PWR-SRC
 - 3=+5V

- C16 CONVERTER connector**
Pin Assignments (LVDS2):
- 1=INV_PWR-SRC
 - 2=INV_PWR-SRC
 - 3=GND
 - 4=GND
 - 5=PWMO
 - 6=BKLTEN

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.

Please note this 1155 pin socket bends 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.

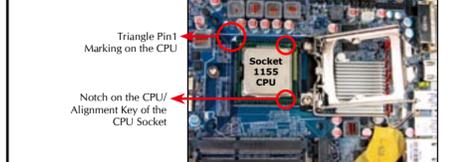
- Follow the steps below to correctly install the CPU into the motherboard CPU socket.
- Tear off the protective membrane first, then unlock and raise the socket lever.

- Lift the metal load plate on the CPU socket.

- Slide the CPU into the socket, ensuring the notches align with the socket keys.
- Lower the metal load plate and lock it in place.

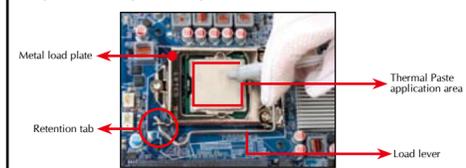
DO NOT touch socket contacts. To protect the CPU socket, always replace the protective socket cover when the CPU is not installed.

- Orientate the CPU and socket and please align the CPU notches with the socket alignment keys. Make sure the CPU is perfectly horizontal, insert it into the socket.



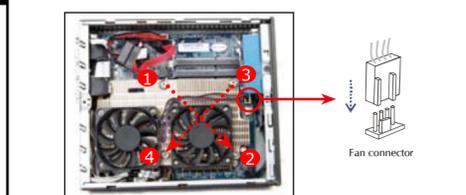
Please be aware of the CPU orientation, DO NOT force the CPU into the socket to avoid bending of pins on the socket and damage of CPU!

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



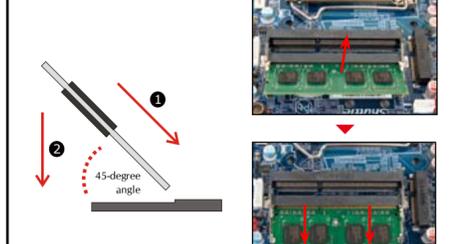
Please do not apply excess amount of thermal paste.

- 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

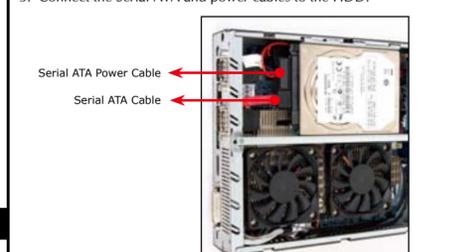
- Locate the SODIMM slot on the mainboard.
- Align the notch of the memory module with the one of the memory slot.
- Gently insert the module into the slot in a 45-degree angle.
- Carefully push down the memory module until it snaps into the locking mechanism.



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

D. Component Installation

- Install the Mini PCIE card into the Mini PCIE slot and secure with screw.
- Place the HDD in the rack and secure with the four screws from the side.
- Connect the Serial ATA and power cables to the HDD.



- Slide the rack in the chassis and refasten the screw.

- ## E. Complete
- Replace the cover and refasten the screws.
 - Complete.
- Please load the optimized BIOS settings.