Intel® Server System R1304BTLSHBN Quick Start User's Guide

Thank you for buying an Intel® Server System. The following information will help you assemble your Intel® Server System R1304BTLSHBN and install components.

This guide and other supporting documents are located on the web at http://www.intel.com/support/motherboards/server

If you are not familiar with ESD (Electrostatic Discharge) procedures used during system integration, please see the Intel® Server System R1304BTLSHBN Service Guide, available on the Intel® Server Deployment Toolkit CD or at http://www.intel.com/support/motherboards/serve

Read all cautions and warnings first before starting your server system integration.

Install the

Processor

gold socket wires.

When removing the protective cover, DO NOT TOUCH the

To avoid damage, DO NOT

Use gloves to avoid sharp edges.

Cautions:





D. Remove the Cover

Carefully lift the cover

straight up as shown.

E. Unpack the Processor

Carefully remove

protective cover

DIMM

socket

align as

shown.

notch and

bump must

as shown.

Minimum Hardware Requirements

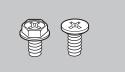
To avoid integration difficulties and possible damage to your system, make sure you have components from each category below.

- Heat Sink:
- 1U passive heat sink Memory:
- Memory Type: Minimum of one 1 GB, 240-pin DDR3 1066/1333 MHz UDIMM.
- Hard Disk Drives:
- Power:
- Minimum of 250W with 3A of standby current, which meets the SSI EPS 12V specification.





Fastener Identification Guide



Preparing the Chassis

Observe normal ESD (Electrostatic Discharge)

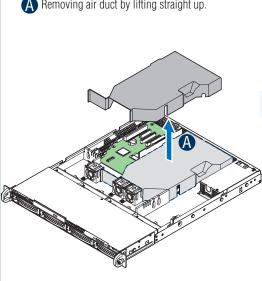


Place your Intel® Server Chassis on a flat anti-static surface to perform the following integration procedures. Always touch the chassis frame first, before reaching inside to make server board connections or to install components.



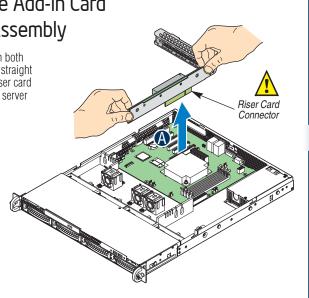
Remove Air Duct

A Removing air duct by lifting straight up.



Remove Add-in Card Riser Assembly A Grasp riser with both hands and pull straight up to release riser card connector from server board socket.

Place the riser assembly upsidedown to avoid damage to the riser card connector.



IMPORTANT! 1

Before proceeding further, do the following:

Check your Intel® Server System for disconnected or loose cables and components that may have occurred during shipping.

Read all caution and safety statements in una document before performing any of the instructions. Also see the Intel® Server Board and Server Chassis Safety Information document at: motherboards/server/sb/cs-010770 .htm for complete safety information.

Installation and service of this product should only be performed by qualified service personnel to avoid risk of injury from electrical shock or energy hazard.

Caution

Observe normal ESD [Electrostatic Discharge] procedures during system integration to avoid possible damage to server board and/or other components.

Caution

Low Power Unit, Please Check Power Budget Tool For Supported Configuration.

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open all the way. Install Heat Sink CAUTION: Do not over-tighten A Get heat sink from the shipping position. fasteners. **B** Remove the protective film on the TIM if present. AIRFLOW Align heat sink fins to the front and back of the chassis for correct airflow. Airflow goes from front-to-back of The heat sink has four captive fasteners and should be tightened using the following procedure: Using a #2 Phillips* screwdriver, finger-tighten each fastener diagonally, according to the numbers shown. B Securely re-tighten each fastener again in the same order as TIM performed in Step E. CAUTION: The heat sink has thermal interface material (TIM) on the underside of it. Use caution so that you do not damage the thermal interface material.

A. Open the Socket Lever B. Open the Load Plate

plate as

Disengage the Cover

shown and tilt up slightly at front.

Place thumb and finger as

A Push the lever handle down

Rotate the lever

and away from the socket to

F. Install the Processor

CAUTION: The underside of that may damage the socket wires if nstalled improperly. rocessor must align correctly with the socket opening before installation. DO NOT DROP processor into socket! **DO NOT DROP** processor into socket!

A Orient the processor with the socket so that the processor cutouts match the two socket pins.

B Note location of gold key at corner of

Install DIMM Memory Modules

DDR3 DIMM Memory Identification:

This server board supports up to 4 DDR3 1066/1333 ECC UDIMM.

CAUTION: Observe normal ESD (Electroscale Disable to avoid possible damage to system components.

DDR3

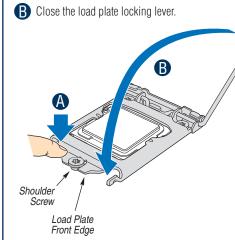
CAUTION: Observe normal ESD (ElectroStatic Discharge) procedures

G. Close the Load Plate

Carefully lower the load plate over the processor.

H. Engage the Load Plate

A Make sure the front edge of the load plate slides under the shoulder screw as the lever is lowered.



A Push down on the locking lever.

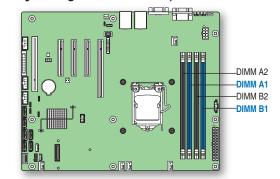
I. Latch the Locking Lever

▲ CAUTION: DO NOT damage the server board with the tip of the locking lever.

B Slide the tip of the lever under the notch in the load plate. Make sure the lever is securely latched.



Memory Configurations and Population Order:



Memory Type: Minimum of one 1 GB, DDR3 1066/1333 MHz ECC UDIMM. Note: For additional memory configurations, see the Techinical Product Specification on the Intel® Server Deployment Toolkit CD that accompanied your Intel® Server

http://www.intel.com/support/motherboards/server

Memory sizing and configuration is supported only for qualified DIMMs approved by Intel®. For a list of supported memory, see the tested memory list at http://serverconfigurator.intel.com/default.aspx

To Install DIMMs:

CAUTION: Avoid touching contacts when handling or installing DIMMs.

- A Open both DIMM socket levers.
- B Note location of alignment notch.
- Insert DIMM making sure the connector edge of the DIMM aligns correctly with the slot.
- Push down firmly on the DIMM until it snaps into place and both levers close.
- [IMPORTANT! Visually check that each latch is fully closed and correctly engaged with each DIMM edge slot.

