Intel® Carrier Grade Server TIGW1U Hardware Reference Guide

Thank you for buying an Intel® Carrier Grade Server System. The following information will help you setup and install your Intel® Carrier Grade Server TIGW1U and service components.

This guide and other supporting documents are located on the web at http://support.intel.com/support/telecom/ computeboards/tigw1u

If you are not familiar with ESD (Electrostatic Discharge) procedures used during system integration, please see the Intel® Carrier Grade Server TIGW1U Product Guide, available on the CD or at http://support.intel.com/support/telecom/computeboards/tigw1u/

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





Minimum Hardware Requirements

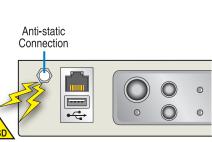
To avoid integration difficulties and possible board damage, your system must meet the following

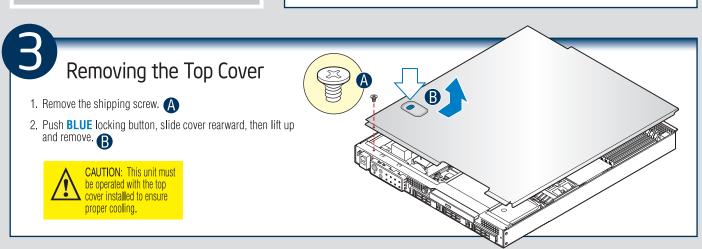
- Processor: Dual-Core Intel® Xeon® processor
- 5100 series LV with compatible heat sink. Memory: Minimum of one 512MB, 240-pin DDR2 533/667 MHz FBDIMM (but populating in pairs is recommended).
- For power requirements, see the Intel® Carrier Grade Server TIGW1U Technical Product Specification.

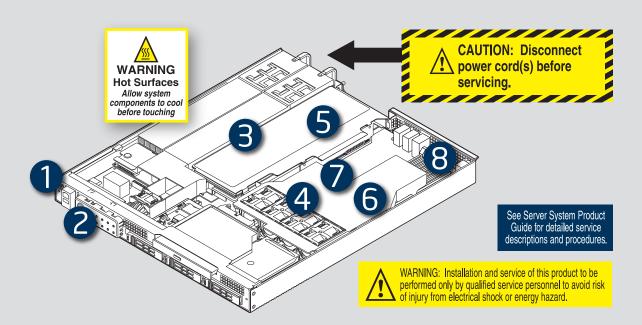


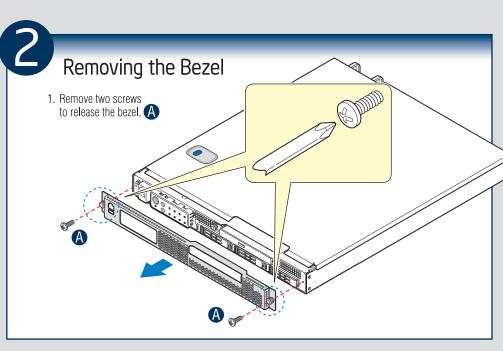
You must remove the bezel to access the ground strap attachment point. If the bezel is installed, see Step 2

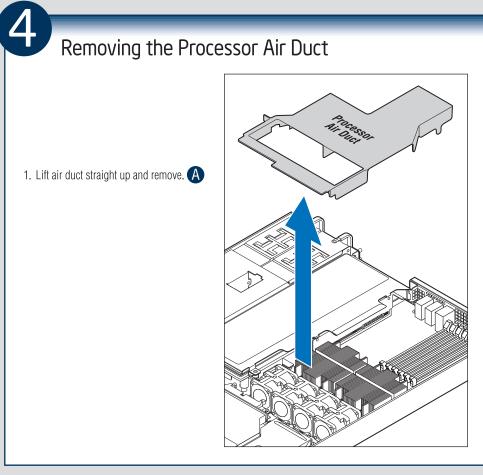
Attach ground strap to anti-static connection point.











Read all caution and safety statements in this document before performing any of the instructions. Also see the Intel® Server Board and Server Chassis Safety Information document at: .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

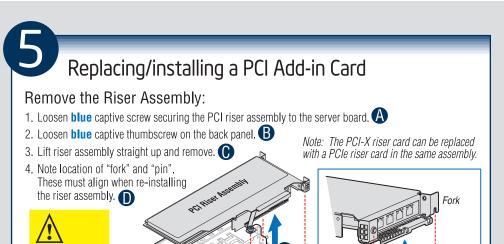
Observe normal ESD [Electrostatic Discharge] procedures during system integration to avoid possible damage to server board and/or other components.

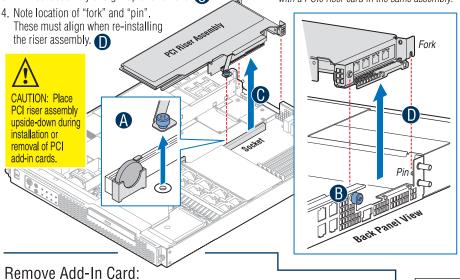
Tools Required

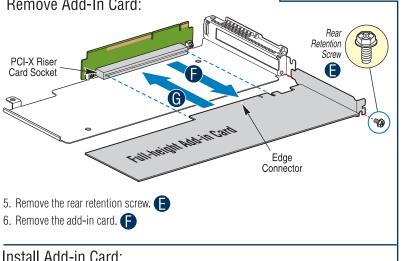


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7. If the add-in card slot was empty, push out the add-in card filler panel, then reverse the previous steps to complete installation of an add-in card. IMPORTANT NOTE:

CAUTION: Observe normal ESD precautions Make sure the add-in card edge connector seats correctly into the riser card socket.

Install PCI Riser Assembly

8. Fork at rear of PCI riser assembly must engage matching pin on chassis back panel.

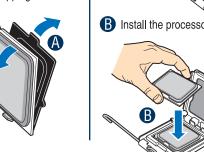
9. Press PCI riser card into matching socket on server board. 10. Fasten the blue thumbscrew to the server board.

11. Tighten thumbscrew at rear.

Install the Processor(s) A.Open the Socket Lever B. Open the Load Plate When unpacking a processor, hold by the A Push the rear tab with your edges only to avoid touching the contacts. finger tip to bring the front end A Push the lever handle of the load plate up slightly. down and away from B Open the load plate as shown. the socket to release it. Pull the lever and open all the way.

Note: Heat sink styles may vary.

C. Remove the Processor **Protective Cover** A Take the processor out of the box and remove the protective shipping cover.



D.Install the Processor

A Orient the processor with the socket so that the processor cutouts match the socket notches.



E. Remove Socket **Protective Cover**

A Grasp the socket protective cover tab and pull away from the load plate as shown.

Remove the socket protective cover and store for future use.



F. Close Load Plate

and Socket Lever

A Close the load plate

all the way as shown.

B With your finger, push down on the load plate as shown.

Close the socket lever and ensure that the load plate tab engages under the socket lever when fully closed.

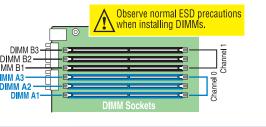


Installing Memory

Memory Configurations and Population Order: Memory Type: Minimum of one 512MB, DDR2 FBDIMM 533/667 MHz

Populate DDR2 FBDIMMs in pairs in the following order: A1-B1, A2-B2, and A3-B3. For best performance, Intel® recommends installing memory in pairs. If installing only one DIMM, you must use slot A1.

DIMMs in each pair must be identical with respect to size, speed, and organization. Note: Memory sizing and configuration is supported only with qualified DIMMs approved by Intel. For additional memory configuration information, see the Server Board TPS or the TIGW1U Product Guide on the resource CD For a list of supported memory components, see the S5000PHB Tested Memory List also at this location.



To Install DIMMs:

1. Open both DIMM socket levers. 2. Note location of alignment notch. B

3. Insert DIMM making sure the connector edge of the DIMM aligns correctly with the slot.

4. Using both hands, press down evenly and firmly on both sides of the DIMM until it snaps

into place and the levers close.

