Intel® Telco/Industrial Grade Server TIGI2U Hardware Reference Guide

Thank you for buying an Intel® Server System. The following information will help you use and maintain your Intel® Telco/Industrial Grade Server TIGI2U.

This Guide is for technically qualified service persons. Expanded installation instructions and complete product information are available in the Intel® Telco/Industrial Grade Server TIGI2U User Guide.

These guides and other supporting documents are located on the web at http://support.intel.com/support/motherboards/server/tigi2u/manual.htm

You can also find the guides on the CD that accompanied the Intel® Telco/ Industrial Grade Server TIGI2U.

If you are not familiar with ESD (Electrostatic Discharge) procedures used during system integration, please see the Intel® Telco/Industrial Grade Server TIGI2U User Guide, available on the CD or at http://support.intel.com/support/motherboards/server/tigi2u/manual.htm

Warning



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: tp://support.intel.com/support/motherboards/server/safecert.htm for complete safety information.

Warning



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

Caution

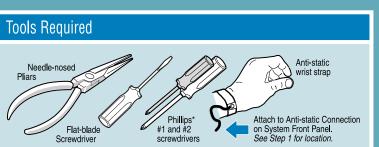
Observe normal ESD [Electrostatic Discharge] procedures during system integration to avoid possible damage to server board and/or other components.

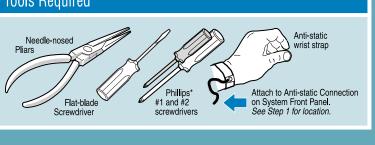
PS Module has failed ... (see detail at right).

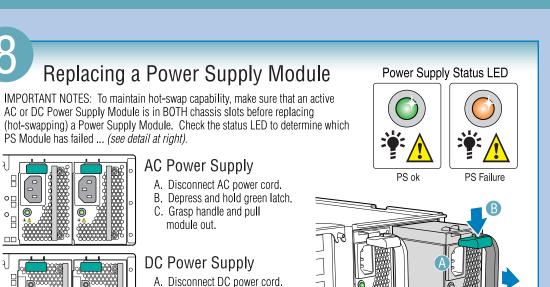
B. Depress and hold green latch.

C. Grasp handle and pull

module out.







the green handle is depressed downward while sliding the module into the PS cage.

Minimum Hardware Requirements

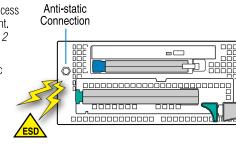
To avoid integration difficulties and possible board damage, your system must meet the following

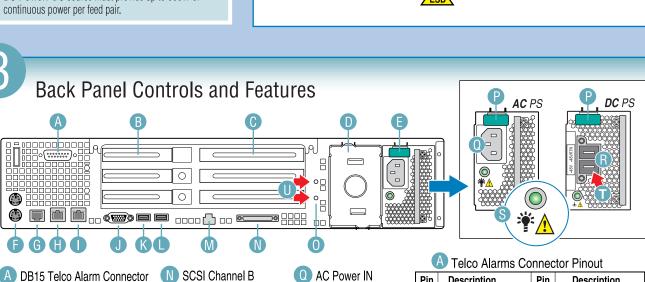
- Processor: Minimum of one Intel® Xeon™ processor with 2 MB cache support.
- Memory: Minimum of two 256 MB (512 MB). DDR2-400/533-compliant Registered ECC SDRAM 240-pin gold DIMMs.
- AC Power: 600W with 1.2A of 5V standby current.
- DC Power: DC source must provide up to 600W of

Ground Strap Attachment Location

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.





R DC Power IN

#10-32 ground studs.

compression terminal

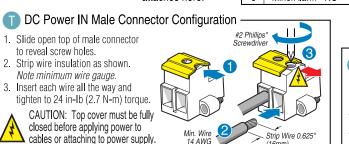
proper safety grounding.

must be used for

- A DB15 Telco Alarm Connector N SCSI Channel B B PCI Card Bracket (low-profile) O Chassis provides two
- PCI Card Bracket (full-height)
- D Power Supply Blank Power Supply (hot-swap if two power supplies are installed) PS Release Lever
- PS/2 Mouse/Keyboard Connectors
- G Rear Serial Port RJ45 NIC 1 Connector
- RJ45 NIC 2 Connector
- Video Connector
- K USB 1 USB 0
- M Server Management Port

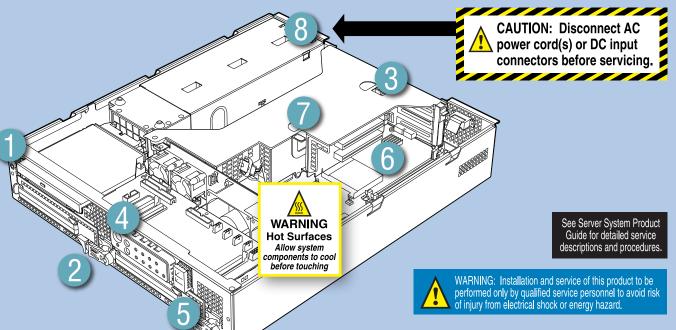
Pin Description Pin Description MinorReset + 9 MinorAlarm - NC MinorReset 10 MinorAlarm - COM

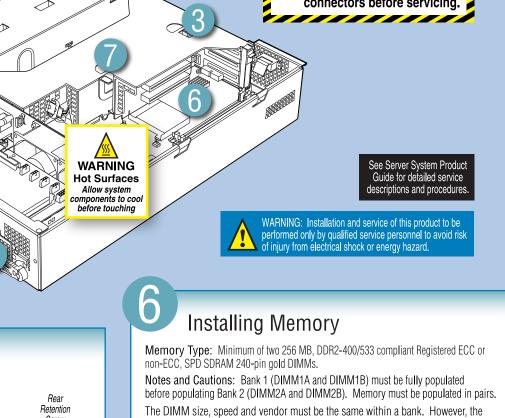
(female connector) 11 MaiorAlarm - NO MajorReset + S PS Status LED MajorReset -12 MaiorAlarm - NC DC Male Power CriticalAlarm - NO 13 MajorAlarm - COM Conn. attaches here. CriticalAlarm - NC 14 PwrAlarm - NO DC Ground Lug CriticalAlarm - COM 15 PwrAlarm - COM 8 MinorAlarm - NO



DC Chassis **Grounding Diagram** DC Ground Lug Installation (two hole) Use 4 #10-32 nuts, one under and one on top of lug. Tighten (each to 10 in-lbs torque.



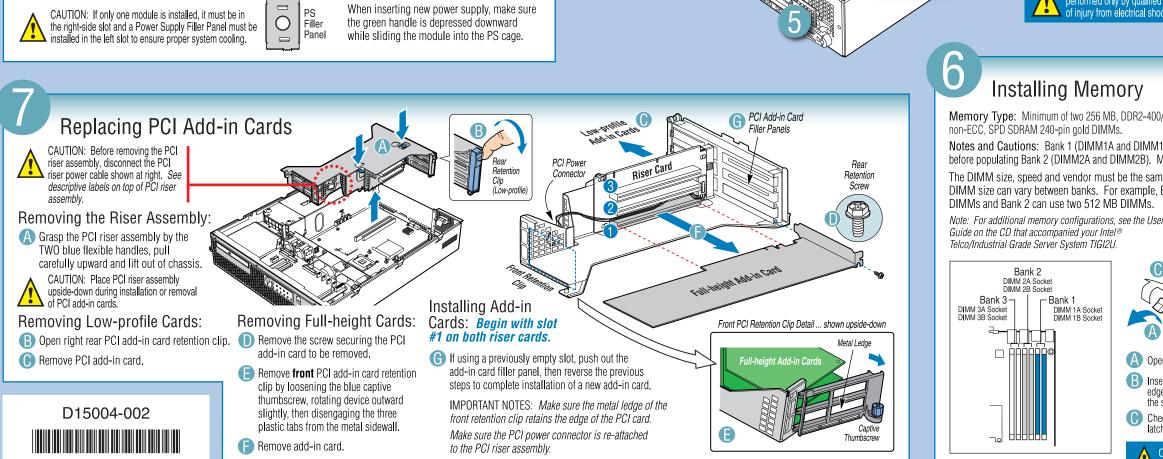


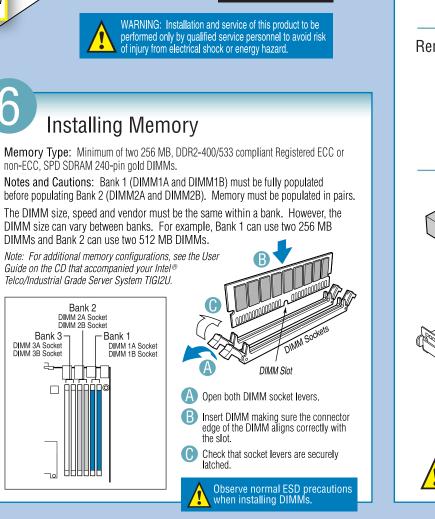


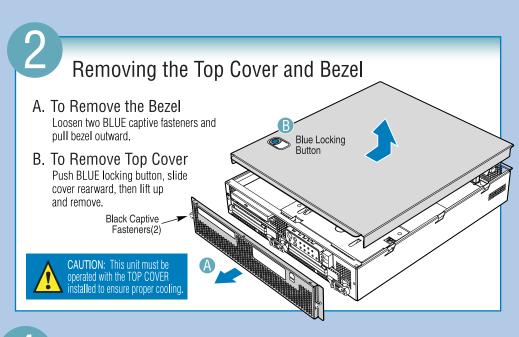
DIMM 2A Socket DIMM 2B Socket

⊢Bank 1

DIMM 1A Socke DIMM 1B Socke









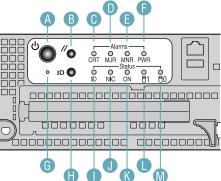
- NIC Activity LED
- Critical Alarm LED Status LED
- Major Alarm LED HDD1 Minor Alarm LED Activity Power Alarm LED
- MI Switch ID Switch

A Power Switch

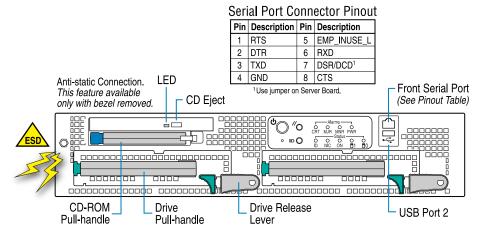
B Reset Switch

ID LED

- M HDD0



Fault LED	Functional Description of Fault LED when Continuously Lit
Critical	A critical system fault is an error or event that is detected by the system with a fatal impact to the system. The system cannot continue to operate. The front panel critical alarm relay will be engaged.
Major	A major system fault is an error or event that is detected by the system that has discernable impact to system operation. The system can continue to operate, but in a "degraded" fashion (reduced performance or loss of non-fatal feature reduction). The front panel major alarm relay will be engaged.
Minor	A minor system fault is an error or event that is detected by the system but has little impact to actual system operation. The front panel minor alarm relay will be engaged.
Power	A power system fault is a power supply error or event that is detected by the system. The front panel power alarm relay will be engaged.



Servicing the Hard Disk Drives

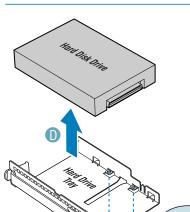
Remove the Bezel

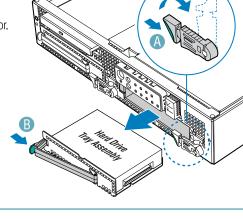
See Step 2 above ...

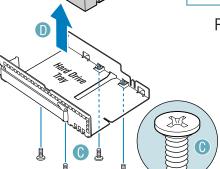


Remove the Hard Drive Tray

A. Press GREEN tab on lever and rotate lever assembly clockwise to the vertical position to disconnect SCSI drive connector. handle outward to disengage tray, then slide hard drive tray assembly out of







Remove the Hard Drive

- C. Remove four screws securing drive to hard
- D. Remove drive and insert new drive. Secure new drive with four screws. E. Re-insert drive tray assembly into chassis,
- F. Press GREEN tab and rotate lever 90 degrees counter-clockwise to engage the

making sure green latch handle locks into

SCSI drive connector.

CAUTION: Hard disk drives are hot-swap. See your Intel® Telco/Industrial Grade Server System TIGI2U User Guide for detailed hard disk drive service procedures.