# Intel Server System SR1680MV Quick Start User's Guide

Thank you for buying an Intel® Server System. The following information will help you assemble your Intel® Server System SR1680MV and install components.

This guide and other supporting documents are located on the web at http://support.intel.com/support/motherboards/server/SR1680MV/.

If you are not familiar with ESD (Electrostatic Discharge) procedures used during system integration, please see the Intel® Server System SR1680MV Service Guide, available on the Intel® Server Resource CD or at http://support.intel.com/support/motherboards/server/SR1680MV/

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









### Minimum Hardware Requirements

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

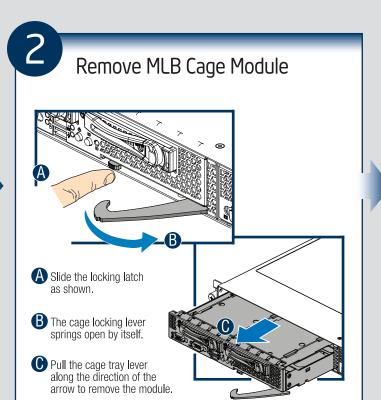
- Processor: Intel® Xeon® processor 5500 series.
- Memory Type: Minimum of one 512-MB, 240-pin DDR3 800/1066/1333-MT/s DIMMs.
- Hard Disk Drives:
- Rack Mount Kit (EIA 310-D compliant)

For a complete list of compatible processors, heatsinks, and memory, see http://support.intel.com/support/motherboards/server/SR1680MV/

## Preparing the Chassis

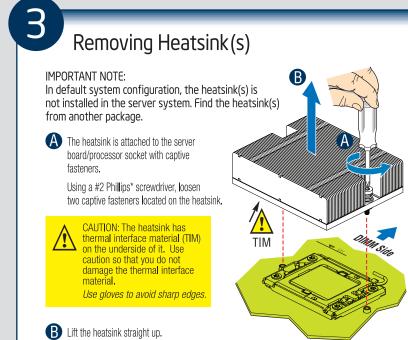
Observe normal ESD (Electrostatic Discharge) procedures.

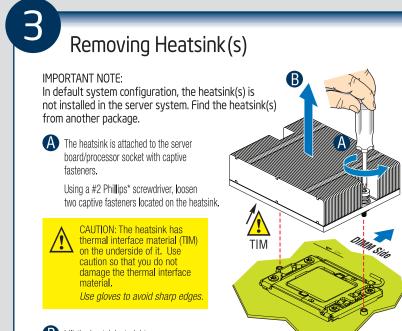
Place your Intel® Server Chassis on a flat anti-static surface to perform the following integration procedures. Observe ESD procedures before reaching inside to make server board connections or install components.

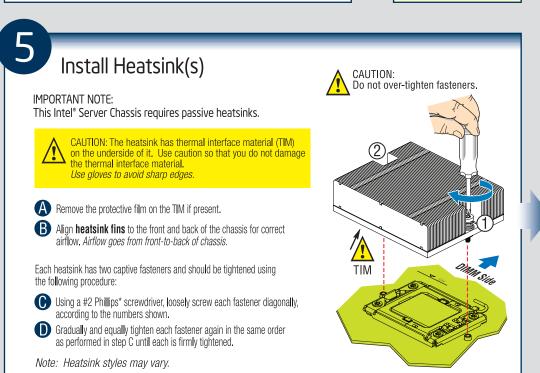




Before proceeding further check vour Intel® Server System for disconnected or loose cables and components that may have occurred during shipping.







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: http://support.intel.com/support/ motherboards/server/sb/cs-010770 .htm for complete safety information.

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.

### Tools Required



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## Install the Processor(s)

Read all Cautions before proceeding. When opening a socket, DO NOT

TOUCH the gold socket wires. When unpacking a processor, hold by the edges only to excite to

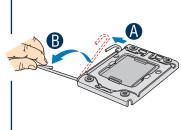
NOTE: If you are only using one processor on your server board, install the processor on the CPU socket labeled 'CPU 1' on the



## A. Open the Socket Lever

A Push the lever handle down and away from the socket to release it.

Rotate the lever open all the way.



### B. Open the Load Plate

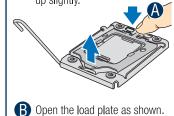
A Push the rear tab with your fingertip to bring the front end of the load plate up slightly.

DIMM F2 -

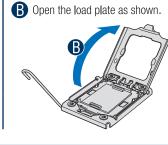
DIMM F3 —

DIMM E2 DIMM E3

DIMM D



**B** Open the load plate as shown.



C. Remove the Socket Protective Cover

straight up.

DIMM A3

DIMM A2

DIMM B3

- DIMM C2



To avoid damage, DO NOT DROP the cover onto the socket wires

A Grasp the socket protective cover by

the two tabs and carefully lift



### D. Remove the Processor

A Take the processor out of the box and remove the protective shipping

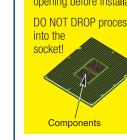
Protective Cover



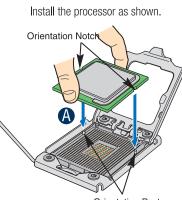
### E. Install the Processor

CAUTION:
The underside of the processor has components that may damage the socke wires if installed improperly.

Processor must align correctly with the socket opening before installation. DO NOT DROP processor



A Orient the processor with the socket socket such that the orientation notches on the processor align with the two orientation posts on the



### Close Load Plate and Socket Lever

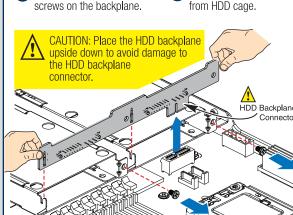
A Close the load plate all the

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

## Replace HDD Backplane IMPORTANT NOTE: If you do not install a device at this location,

install the optical device bay filler panel shown below. This is required to maintain proper system cooling. A Loosen the two securing B Lift the backplane up

screws on the backplane.



## Install Memory DIMMs Memory Configurations and Population Order:

For best performance, it is recommended to base on Memory Polulation Configuration.

In a single-processor configuration, always populate A1 DIMM first. In a dual-processor configuration, always populate A1 DIMM first for CPU 1 and D1 DIMM first for CPU2.

Note: DIMM Blanks are installed on the designated slots to maintain adequate thermal levels in default system configuration. Make sure these slots are not empty.

Note: For additional memory configurations, see the Service Guide on the Intel® Server Resource CD that accompanied your Intel® Server System SR1680MV, or go to: http://support.intel.com/support/motherboards/server/SR1680MV/

Memory sizing and configuration is supported only for qualified DIMMs approved by Intel. You can find a list of validated memory at the Intel® Server Configurator Tool: http://serverconfigurator.intel.com/default.aspx

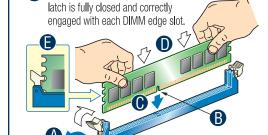
### **CAUTION:** Avoid touching contacts when handling or installing DIMMs

To Install DIMMs:

A Open both DIMM socket levers.

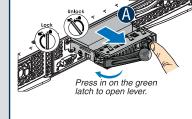
IMPORTANT! Visually check that each

- 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.



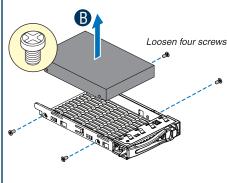
## Install Hard Drives/Carriers

assembly by pressing in on the silver latch, pulling out on the black lever and sliding the hard drive disk assembly out.

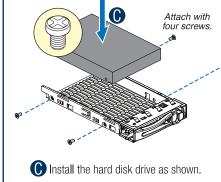


A Remove the hard drive disk

B When the hard drive disk is existed, loosen four screws and remove the drive.



CAUTION: If you install less than four

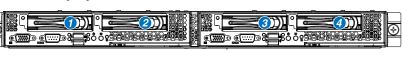


FULLY OPEN position to install into the chassis. Slide carrier into chassis until it clicks, then close the lever.

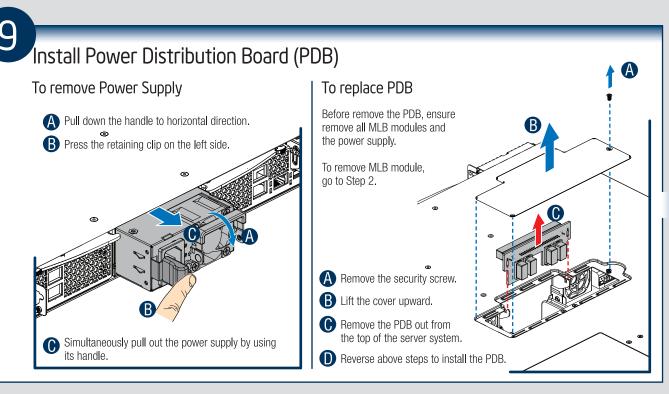
Install hard disk drive assembly

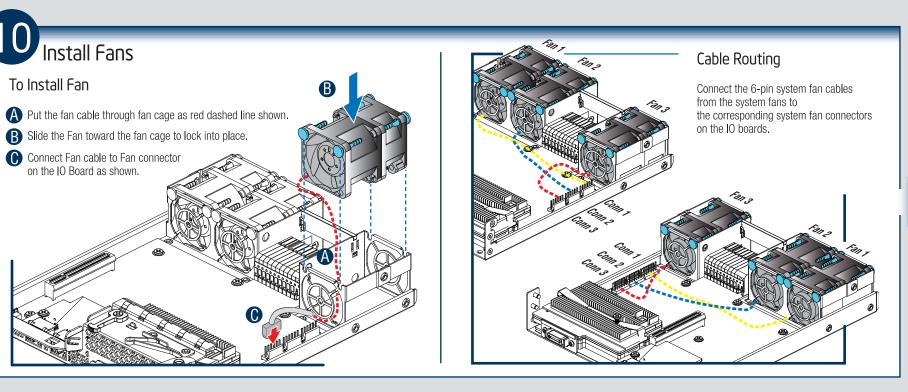
into chassis opening.

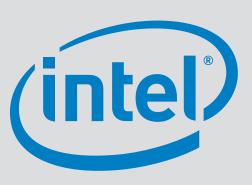
Hard Drive Numbering Diagram

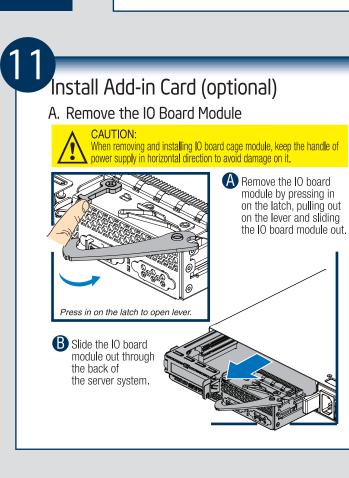


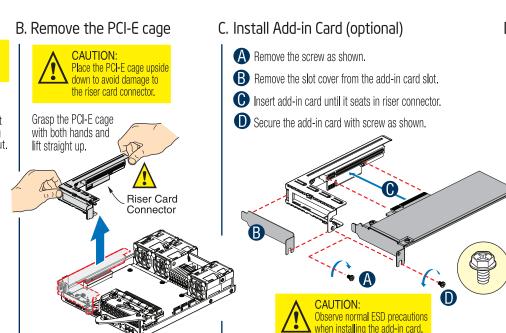
Repeat these steps for each installed hard drive disk

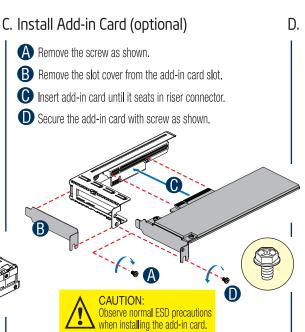


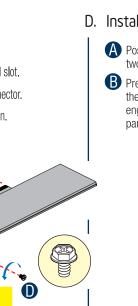


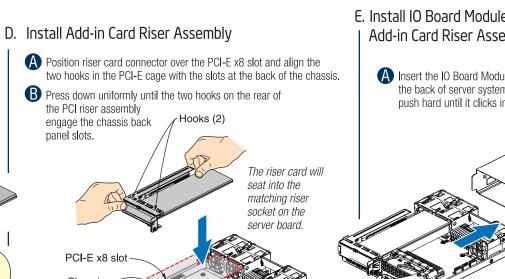


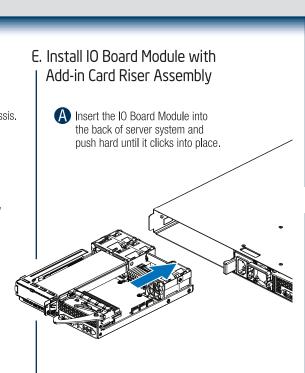


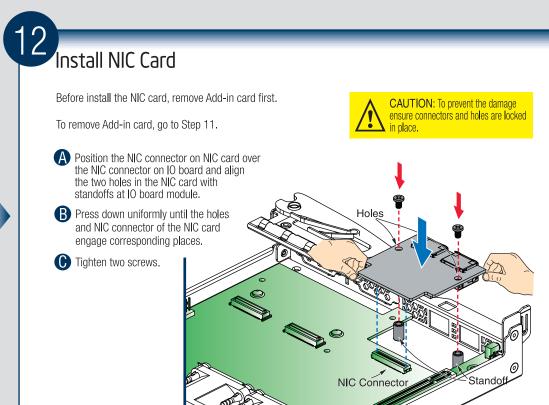


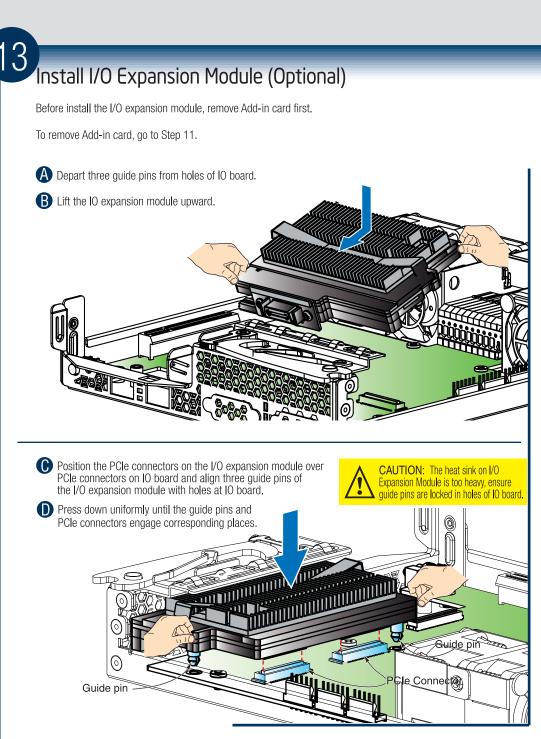


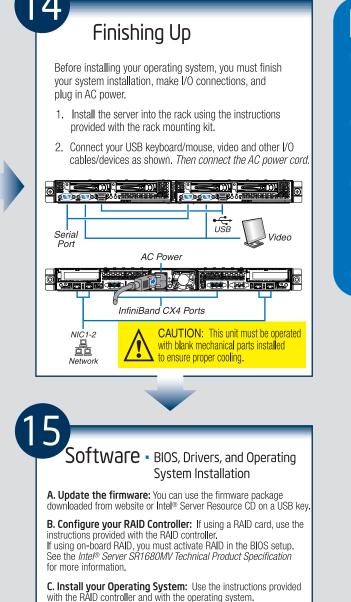












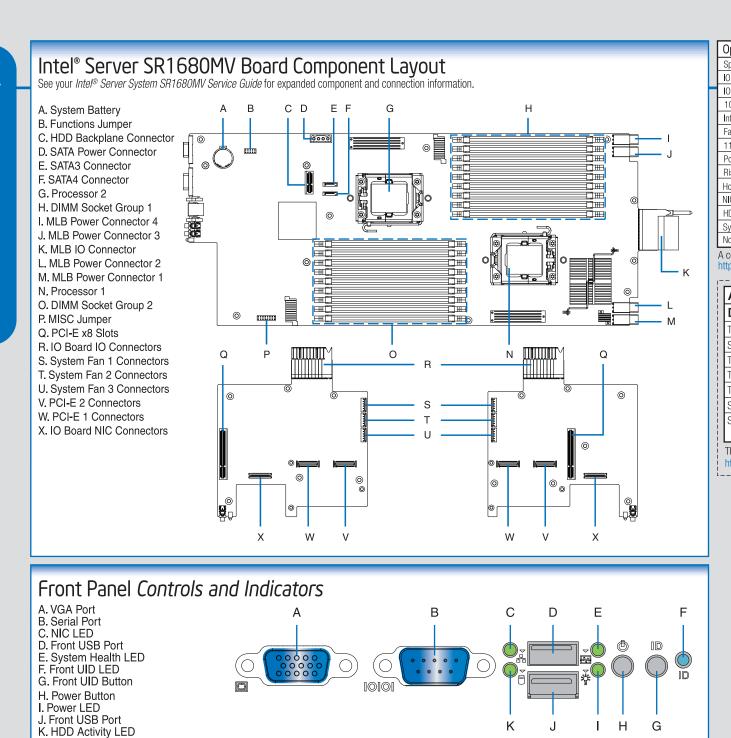
D. Install Operating System Drivers: With the operating system

running, insert the Intel® Server Resource CD.

If using a Microsoft Windows\* operating system, the Express Installer

will autorun and allow you to select the appropriate drivers to install.

On other operating systems, browse the CD folders to locate and install the driver files.





Document Type	Content
Technical Product Specification	In-depth technical information
Spares and Configuration Guide	Supported accessories and spares list
Tested Hardware and Operating System List	Tested peripherals and operating systems list
Tested Memory List	Tested memory list
Tested Processors	Supported processors list
Software and Drivers	Up-to-date firmware, driver, and utility information
Service Guide	Guide for Technically Qualified Assemblers of Subassemblies/Products