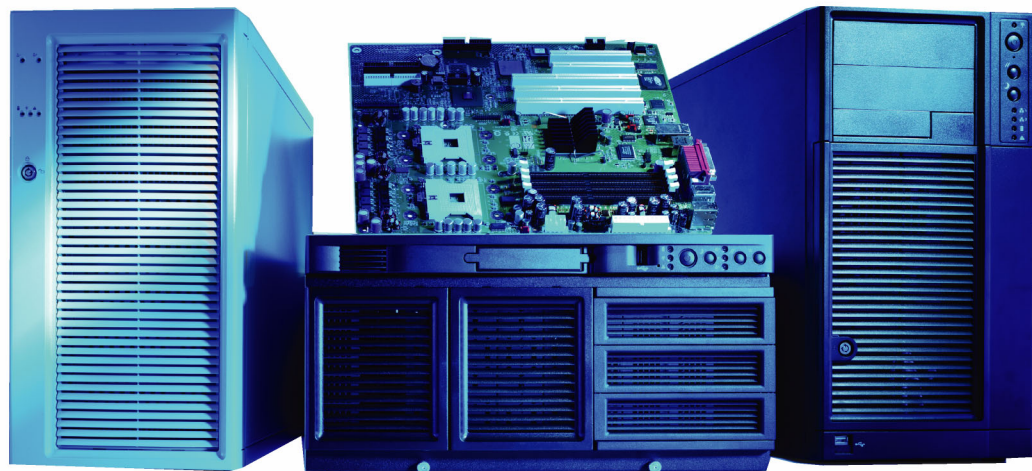
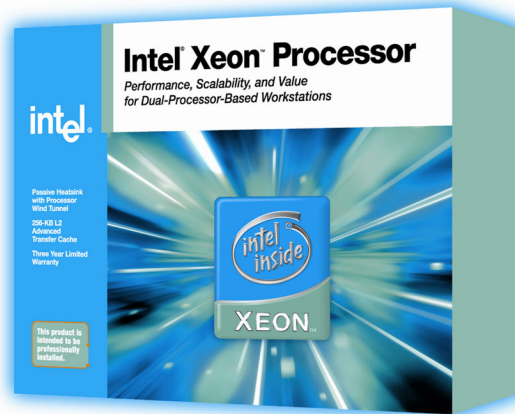


Server Installation and Integration Guide

Using the Boxed Intel® Xeon™ Processor and
Boxed Intel® Server Board SE7501CW2



Revision History

Date	Revision	Notes	Product Code
9/25/03	1	First Draft	
10/6/03	2	Second Draft	

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Introduction

Document Overview

This guide outlines the procedures for integrating an Intel® Server Platform using an Intel Server Board SE7501CW2 and Intel Xeon™ processors.

This guide consists of the most essential information first-time server builders need to successfully assemble an Intel server solution. Your particular operating system's installation guide will cover the installation of the server's operating system.



Target Audience

- Intel channel program members who are expanding their expertise to include server platforms and current channel program members looking for a refresher on servers
- System integrators deploying servers based on the boxed Intel Server Board SE7501CW2

Our intent is to better enable system integrators, particularly first-time server builders, to meet the competitive challenges they face in the server market and to keep program members up-to-date on emerging server technologies. By following the steps outlined in this document, you will be able to integrate an Intel Server Board SE7501CW2 with an Intel Server Chassis SC5200 in a timely and effective manner.

The Intel Server Chassis SC5200 is used as an example and is recommended for ease of integration and compatibility; other reference chassis may be different. Expanded installation instructions and complete product information are available in the *Intel® Server Board SE7501CW2 Product Guide* on the Resource CD. Unless otherwise noted, references to the Intel Server Chassis SC5200 include both the base version and the base redundant power version.

Thank you

Thank you for buying Intel Server Products.

Troubleshooting Guide

In the unlikely event you do encounter issues, the troubleshooting guide will help you troubleshoot and identify possible areas of concern regarding the Intel Server Board SE7501CW2. It will also assist you in collecting the data needed to help you work through any concerns or issues that may arise. The troubleshooting guide includes suggestions that may help you and a list of information that we will need to assist you should you need to call. The troubleshooting guide is available at:

http://support.intel.com/support/motherboards/server/SE7501CW2/ts_guide.htm

If you are unable to resolve a problem using this guide, please follow these steps:

1. Visit <http://support.intel.com/support/motherboards/server/SE7501CW2/index.htm>. This Web site contains the latest information on known issues and their respective solutions. If you are still unable to resolve the issue, go to the next step.
2. Send e-mail, including as much information on the issue as possible, to Intel customer support, using the form available at this URL:
<http://supportmail.intel.com/scripts-emf/welcome.asp?id=37>
3. Channel customers can contact Intel customer support toll free at 1-866-655-6565. Non-channel customers should use one of the numbers listed at
<http://www.intel.com/support/9089.htm>

Minimum Hardware Requirements

Your system must meet the following minimum requirements to avoid integration difficulties and possible board damage:

- **Processor:** Minimum of one Intel Xeon processor 1.8 GHz with 512K cache support in a 603-pin (400-MHz FSB) or 604-pin (533-MHz FSB) INT flip-chip micro pin-grid array (INT-mPGA). For a list of tested processors, visit
http://support.intel.com/support/motherboards/server/SE7501CW2/proc_supp.htm
- **Memory:** Minimum of one 128-MB ECC DDR 266-compliant registered SDRAM 168-pin gold DIMM. For a list of tested memory, visit
http://support.intel.com/support/motherboards/server/SE7501CW2/tested_mem.htm
- **Power:** Minimum of 450 W with 1.2A standby current which meets the SSI EPS 12V specification. Intel provides a power budgeting tool to help you determine the power needs of your server at
http://support.intel.com/support/motherboards/server/pwr_budget.htm

Additional resources and support for your server board, including tested chassis, qualified chassis components, specifications, and software updates, can be found at
<http://support.intel.com/support/motherboards/server/SE7501CW2/index.htm>

Hardware Integration

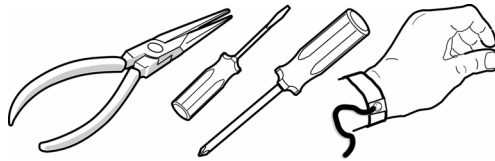
The following installation procedures enable you to prepare a chassis for integration, add the needed components to your server board, and install the server board. The procedures are condensed from the more comprehensive and detailed Product Guides for the Intel Server Board SE7501CW2 and Intel Server Chassis SC5200. To access the most current and complete Product Guides and for more information, visit Intel Support at: <http://support.intel.com/support/motherboards/server/SE7501CW2/index.htm>



Prepare for Assembly

1. Gather tools needed:

- Needle nose pliers
- Flat blade screwdriver
- Phillips head screwdriver
- Antistatic wrist strap



2. Prepare a clean, static-controlled, level workstation.

3. Collect and organize all necessary hardware including the server board, memory, processor(s), and peripherals (hard drives, floppy disk drive, CD/DVD).

4. Verify that the components chosen for installation are listed as validated for use with the Intel Server Board SE7501CW2. This information is available from the Intel Support Web site: <http://support.intel.com/support/motherboards/server/SE7501CW2/compat.htm>.

Important Safety Information

Safety Instructions and Information

To avoid personal injury or property damage, the following safety instructions apply whenever working inside the chassis:

1. Turn off all peripheral devices connected to this product.
2. Turn off the system by pressing the power button on the front of the product.
3. Disconnect the AC power by unplugging all AC power cords from the system or wall outlet.
4. Disconnect all cables and telecommunication lines that are connected to the system.
5. Retain all screws or other fasteners when removing access cover(s). When finished, refasten the access cover with original screws or fasteners.
6. Do not access the inside of the power supply. There are no serviceable parts in the power supply. If the power supply is malfunctioning, return it to the manufacturer for servicing.

Electrostatic Discharge (ESD)

CAUTION

Perform the procedures in this product guide only at an electrostatic discharge (ESD) workstation, because the server components are extremely sensitive to ESD. If no such workstation is available, you can reduce the risk of electrostatic discharge damage by doing the following:

- Wear an antistatic wrist strap, and attach it to a metal part of the server.
- Touch the metal on the server chassis before touching the server components.
- Keep part of your body in contact with the metal server chassis to dissipate the static charge while handling the components.
- Avoid moving around unnecessarily.
- Hold the server components (especially boards) only by the edges.
- Place the server components on a grounded, static-free surface. Use a conductive foam pad if available. Do not use the product packaging or wrapper as an antistatic surface.
- Do not slide the components over any surface.

Chassis Preparation and Server Board Installation

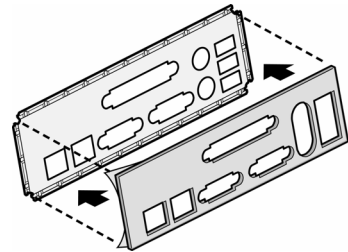
About the I/O Shield

An ATX 2.03-compliant I/O shield is provided with your server board. The shield is required by Electromagnetic Interference (EMI) regulations. It minimizes EMI and helps obtain proper cooling of the server.

The shield fits the rectangular opening near the power supply in the back of the chassis. The shield has cutouts that match the external I/O connectors of the server board (such as the keyboard and mouse connectors).

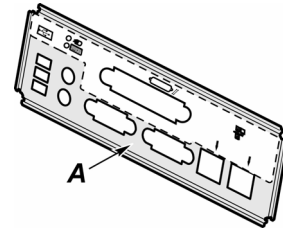
Attaching the Gasket to the I/O Shield

1. Remove the two backing strips from the gasket.
2. Press the gasket onto the inside face of the I/O shield as shown.



Attaching the Label to the I/O Shield

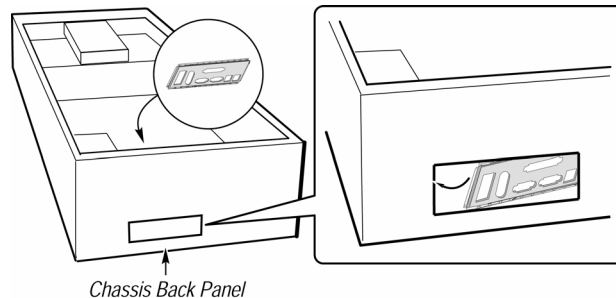
1. Remove the backing from the label included with your server board.
2. Press the label onto the outside face of the I/O shield (A).



Installing the I/O Shield

Install the I/O shield from inside the chassis, with the label facing outward.

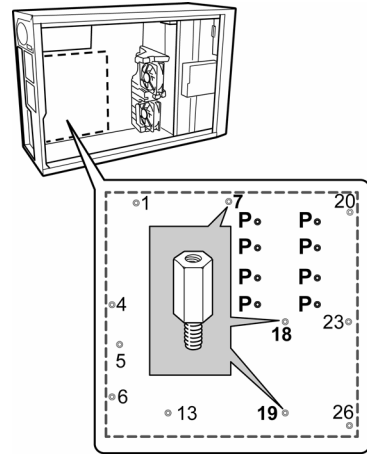
1. Insert one edge, and rotate the I/O shield into the chassis cutout.
2. Press firmly until the I/O shield clicks into place.



Installing Chassis Standoffs

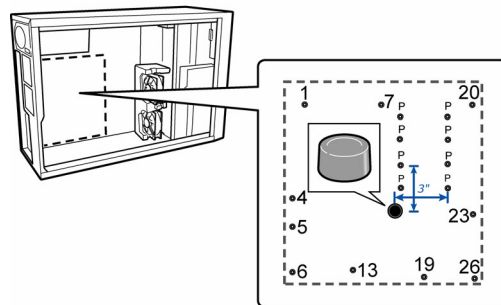
If your chassis does not have standoffs placed as shown, you must rearrange them so they match the holes in the server board. Failure to properly rearrange the metal standoffs may cause the server board to malfunction and permanently damage it. Your chassis may be different from the illustration, but you must still arrange the standoffs properly.

When using an Intel Server Chassis SC5200, positions 1, 4, 6, 20, 23, and 26 come preinstalled. You must install standoffs in positions 7, 18, and 19. Install standoffs in the eight positions marked P **regardless of whether one or two processors will be installed**. Standoffs are included with this chassis.



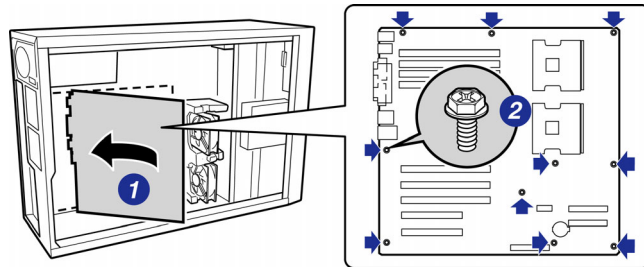
Installing the Rubber Bumper

Attach the rubber bumper to the chassis. The bumper should cover the indicated chassis standoff hole. On an Intel Server Chassis SC5200, the standoff is marked 'S'. On other chassis, place the bumper approximately 3 inches (7.6 cm) below and to the left of the standoffs marked P as shown.



Installing the Server Board

1. Place the board into the chassis, making sure that the back panel's I/O shield and chassis standoffs align correctly.
2. Attach the board with the included screws at the ten locations shown.



Note:

If you are installing only one processor, you must also insert screws into the four standoff locations around the CPU2 socket.

Installing Memory

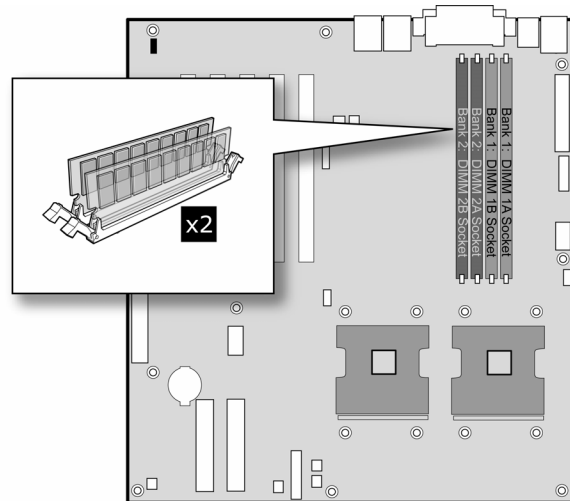
The server board supports only DDR266-compliant DIMMs. The minimum supported memory configuration is 128 MB, using one 128-MB DIMM. The maximum configurable memory size is 8 GB using 4 2-GB DIMMs.

If a single DIMM is used, you must install it in the DIMM 1A socket. Bank 1 must be fully populated before you install any memory in Bank 2, and Bank 2 only operates with two DIMMs installed. DIMMs must be identical within each bank.

Note:

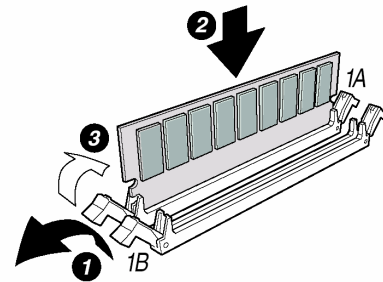
Use memory that has been tested for compatibility with the server board. For a list of tested memory, see:

http://support.intel.com/support/motherboards/server/SE7501CW2/tested_mem.htm



If the server board is not already installed in the chassis, remove the server board from its packaging and place it on a clean ESD-protected work surface.

1. Open both DIMM socket levers.
2. Insert DIMM, making sure the connector edge of the DIMM aligns correctly with the slot.
3. Check that the socket levers are securely latched. DIMMs must be populated in identical pairs.



Installing the Boxed Intel® Xeon™ Processor

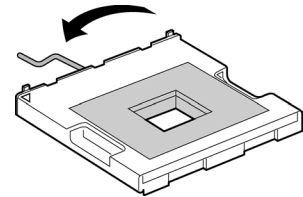
Choosing the Processor Socket

Use these instructions for installing your processor instead of the instructions that came with your boxed processor.

- If only ONE processor is to be used, it must be installed in the processor socket labeled CPU1, located closest to the corner of the server board. No processor terminator is required on a single processor system. Do not install a terminator in the Intel Server Board SE7501CW2.
- If installing a SECOND processor, verify that the processor is identical in voltage, speed, *and* stepping to the first processor. Do not mix processors of different types, frequencies, or steppings.
- To avoid touching the pins, hold the processor only by the edges when unpacking it.

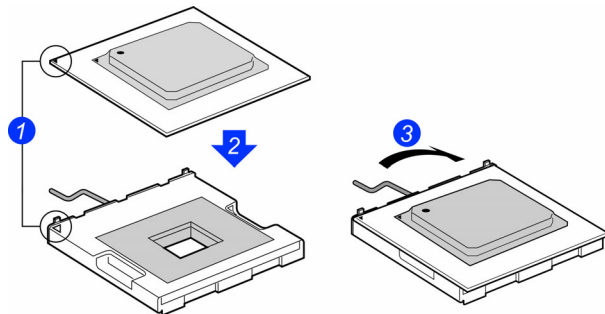
Opening the Socket Lever

Open the lever all the way as shown. This server board has ZIF sockets. If the processor does not drop easily into the socket holes, make sure the lever is in the full-open position and the processor is oriented properly. Applying pressure will damage the processor pins.



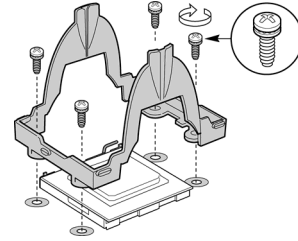
Attaching the Processor

1. Align the alignment triangle mark on the processor with the alignment triangle cutout on the socket.
2. Insert the processor in the socket.
3. Close and latch the socket lever as shown.



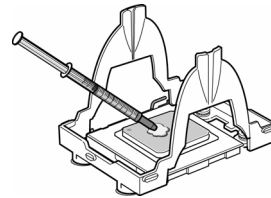
Installing the Retention Mechanism

1. Insert the retention brackets.
2. Tighten the four retention screws.



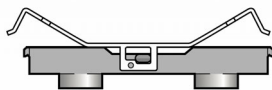
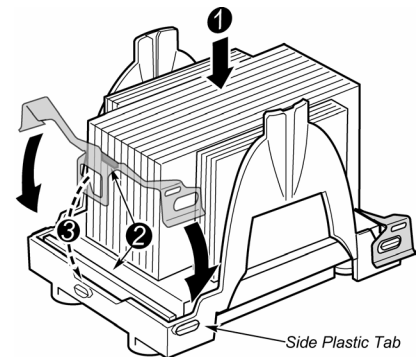
Applying Thermal Grease

Apply thermal grease to the processor as shown.

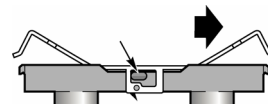


Attaching the Heat Sink and Retention Clips

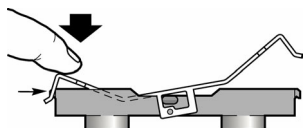
1. Place the heat sink onto the processor as shown. *Heat sink styles may differ.*
2. Verify that the tab on the inside of the retention clip engages the slot on the heat sink during installation.
3. The center slot in the clip provides room for side-to-side motion while you engage the retention clip slots on each side.



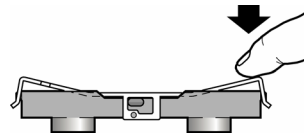
1. Position both clips as shown. Make sure the tab (2) above engages in the slot on the heat sink base.



2. Slide the clip in the direction shown. Note the location of the center plastic tab.



3. Press downward on the end of the retention clip to engage the side plastic tab.



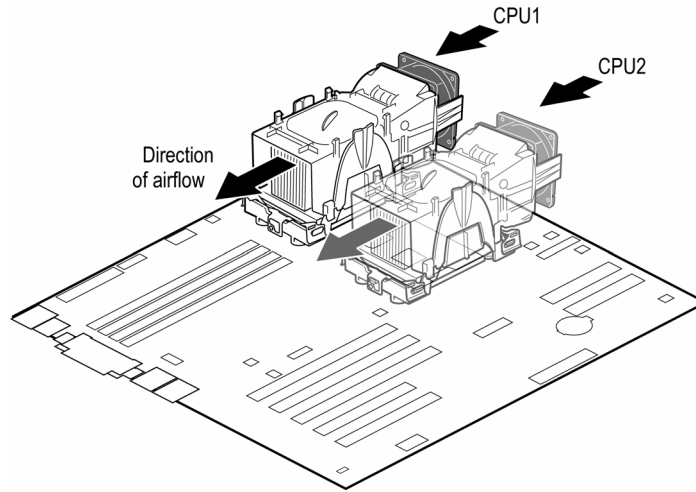
4. Snap the other end in place as shown.

Note:

Install both retention clips simultaneously for the easiest installation.

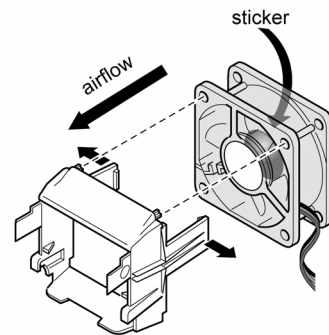
Installing the Processor Wind Tunnel

The following instructions apply to the base Intel Server Chassis SC5200 and reference chassis installations. Direct the airflow from the processor wind tunnel toward the rear of the chassis as shown.



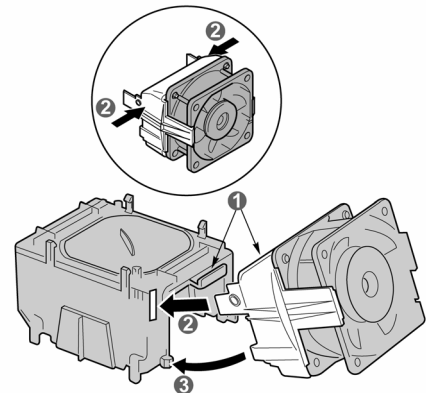
Attaching the Heat Sink Fan

Install the processor wind tunnel center section over the heat sink. The plastic tabs on the wind tunnel center section must engage the tabs on the retention mechanism. Make sure the fan's sticker is facing away from the assembly, so that the airflow is into the assembly.



Attaching the Fan/Intake Assembly

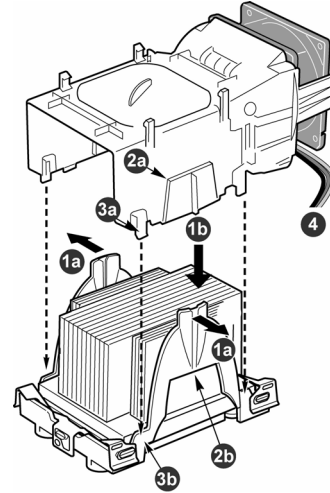
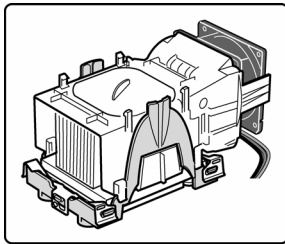
1. Position the fan/intake assembly at approximately 45°, and engage the clip at the top of the tunnel as shown.
2. Gently squeeze the two tabs on the assembly, and insert them into the two mating slots on the wind tunnel.
3. Rotate the fan/intake downward to engage the mating clips on the wind tunnel.



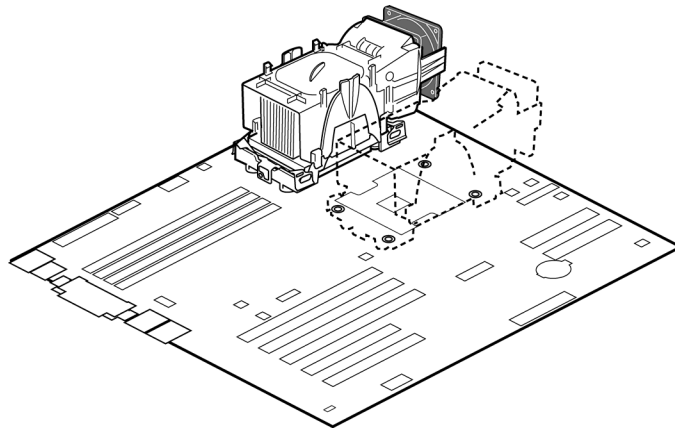
Attaching the Wind Tunnel

1. Spread the tabs outward slightly (1a). Lower the wind tunnel assembly onto the retention mechanism (1b).
2. The tabs on the fan assembly (2a) slide into slots (2b) on the inner side of the retention mechanism.
3. The tabs on fan assembly (3a) connect to the outside surface of the retention mechanism (3b).
4. Attach the fan power cable to the corresponding server board CPU fan connector.

Correct assembly should look like this:



When installing only one processor, there is no need to install the wind tunnel assembly over the second processor location. Use the wind tunnel assembly over a CPU socket only when a CPU is installed.



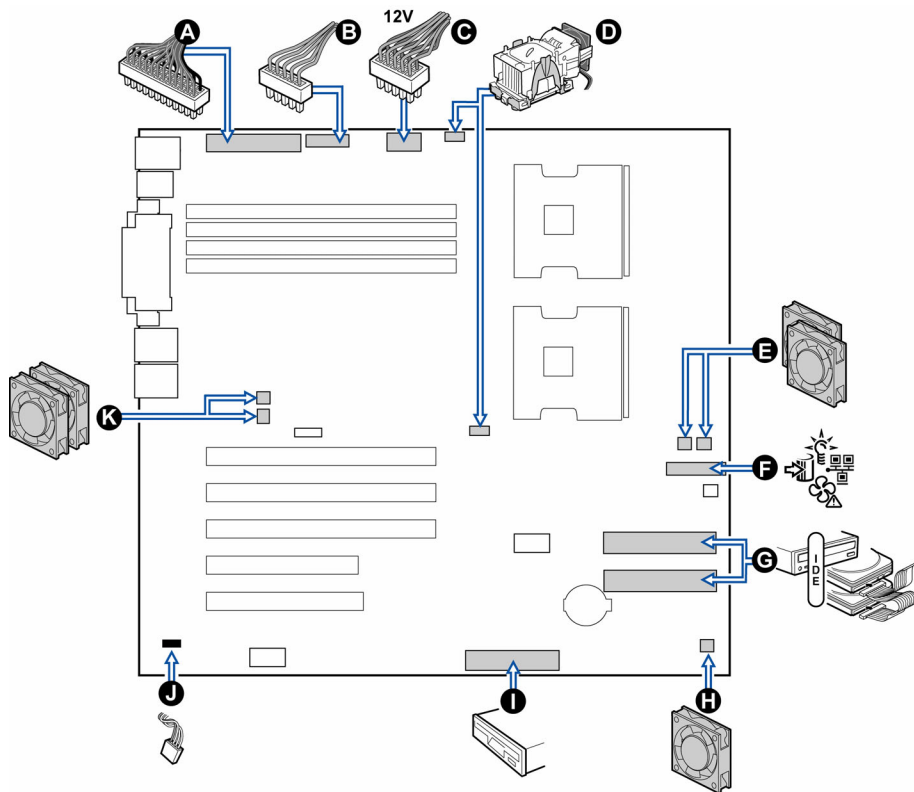
Install the rest of the internal peripherals of your server now, including any floppy, CD, and hard disk drives. See "Making Required Connections to the Server Board" below for the server board connection points.

Making Required Connections to the Server Board

Make these connections regardless of the chassis used. Refer to your chassis documentation for additional connection requirements. For the Intel Server Chassis SC5200 Base or Redundant Power Version, connect the front system fans to the system fan 3 and 4 connectors on the server board.

Note:

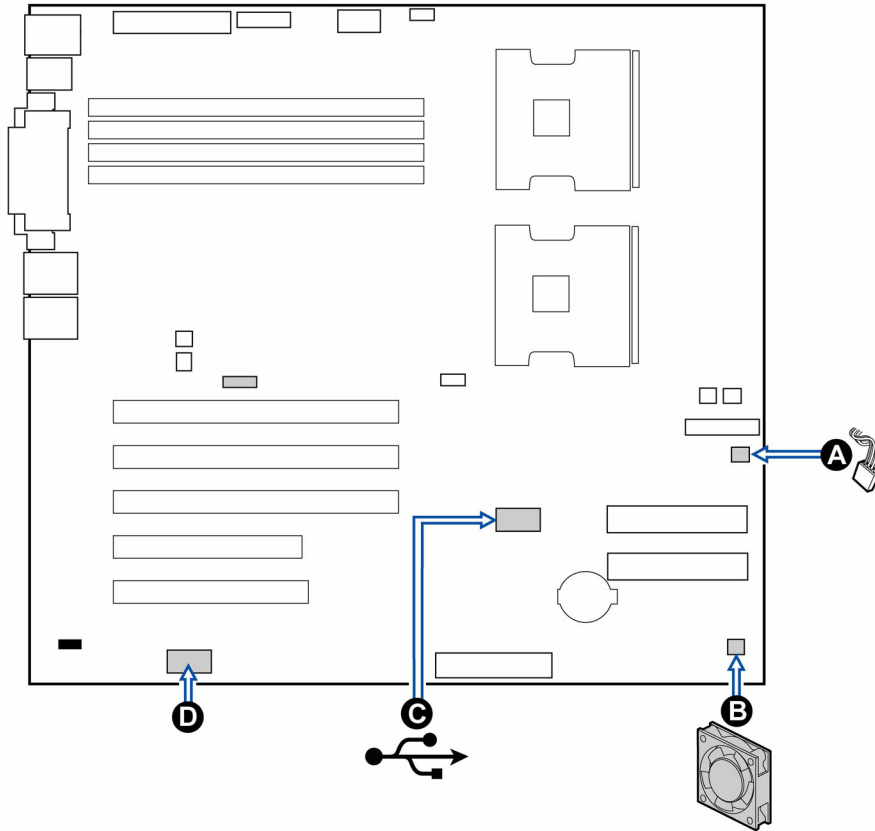
If the fans are not configured properly, then they will run at a faster rate to compensate for what the system interprets as a missing fan.



- | | |
|---|---|
| A Main Power Connector | G Secondary IDE Connector (<i>upper, white connector</i>) and Primary IDE Connector (<i>lower, black connector</i>) |
| B Auxiliary Power Connector | H System Fan 5 |
| C +12V CPU Power Connector | I Floppy Disk Drive Connector |
| D CPU1 Fan (<i>upper connector</i>) and CPU2 Fan (<i>lower connector</i>) | J Chassis Intrusion Header |
| E System Fan 1 (<i>upper connector</i>) and System Fan 2 (<i>lower connector</i>) | K System Fan 3 (<i>upper connector</i>) and System Fan 4 (<i>lower connector</i>) |
| F Front Panel Connector | |

Making Optional Connections to the Server Board

These connections are required only when the corresponding component is installed.

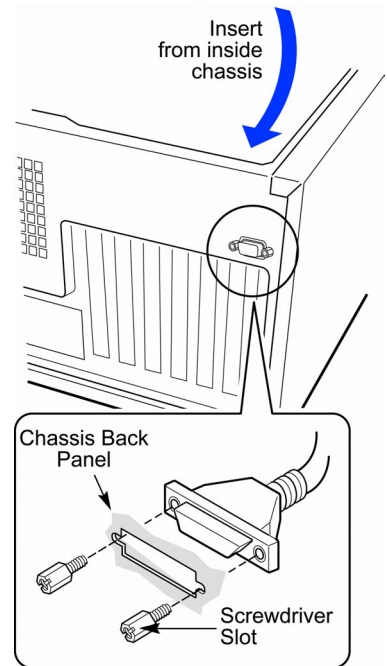


- | | | | |
|---|----------------------------|---|----------------------------|
| A | Hot Swap Back Plane (HSBP) | C | Front Universal Serial Bus |
| B | System Fan 5 | D | Serial B |

Installing the Serial B Cable

For the Intel Server Chassis SC5200, you can connect the Serial Port B cable to either the back of the chassis or, on a rack-mount system, to the front of the chassis.

1. Use a screwdriver to remove the connector knock-out.
2. Install the Serial B cable by inserting it into the chassis back panel cutout and attaching the two hex screws as shown.
3. Attach the other end of the cable to the Serial B connector on the server board. See "Making Optional Connections to the Server Board" on page 17.



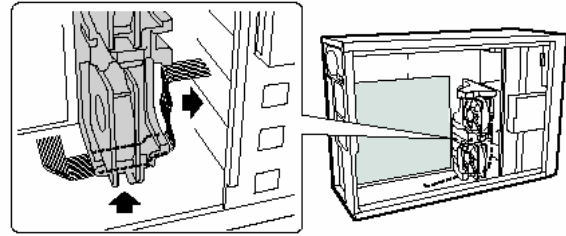
Cable Routing – Intel Server Chassis SC5200

To ensure proper airflow within the chassis, follow the cable routing guidelines below.

IDE or SCSI Cables

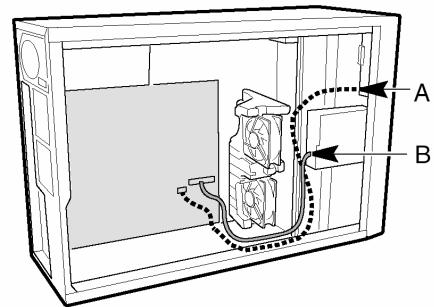
Cables that connect to devices in the lower device bays should be routed around the EPAC system fan carrier as shown.

1. Route cables as shown.
2. Replace the top half of the EPAC.



Floppy and Front Panel Cables

Route the floppy drive and front panel cables as shown.

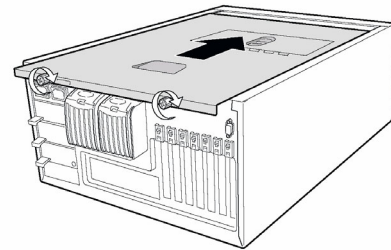


OM14376

- A. Front Panel Cable
- B. Floppy Diskette Cable

Installing the Access Cover

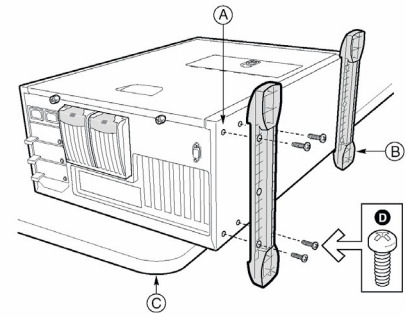
1. Place the cover so the tabs go into the slots on the server. The cover should be flush against the chassis.
2. Slide the cover forward until it stops.
3. Tighten the two captive screws into the rear of the chassis.



OM14021

Installing the Chassis Feet (Pedestal Mode)

1. If you are installing this server into a rack system, skip these steps and go to "Installing into a Rack (Rack Mode)" below.
2. Move the chassis to the edge of your workbench.
3. Use four screws to attach each foot to the chassis. The holes in the feet line up with only one set of holes in the chassis. On the front foot, the middle hole should face toward the front of the chassis. Hole locations for the front foot are marked "F" and "1, 2". On the back foot, the middle hole should face toward the back of the chassis. Location holes for the rear foot are marked "F".



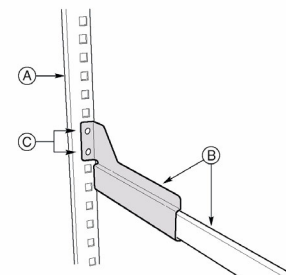
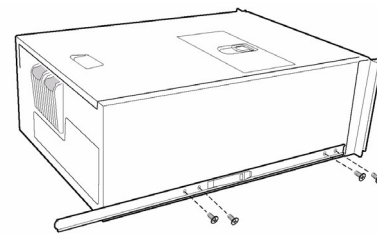
- OM14209
- A. Screw hole
 - B. Chassis foot
 - C. Workbench
 - D. Screw (M4 round head)

Installing into a Rack (Rack Mode)

The Intel Server Chassis SC5200 is designed to be compatible with the EIA-310-d rack standard. Be sure to select a rack cabinet enclosure that is EIA-310-d compliant. For additional compatibility and rack cabinet selection information, see:

<http://support.intel.com/support/motherboards/server/chassis/sc5200>

1. Fully extend the rails.
2. Remove the smallest and innermost rail.
3. Position the rail.
4. Insert and tighten four screws.
5. Install the rest of the rail in your rack.



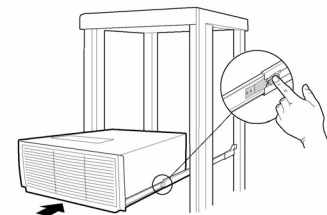
- OM14910
- A. Rack
 - B. Rail Assembly
 - C. Mounting Holes

Note:

Your rack may vary from the illustration. Refer to your rack documentation for information specific to your rack.

Hold the chassis so the rails on the chassis engage the rails in your rack. You will need someone to help you at this point.

Disengage the locking tab on each rail and slide the server into the rack.



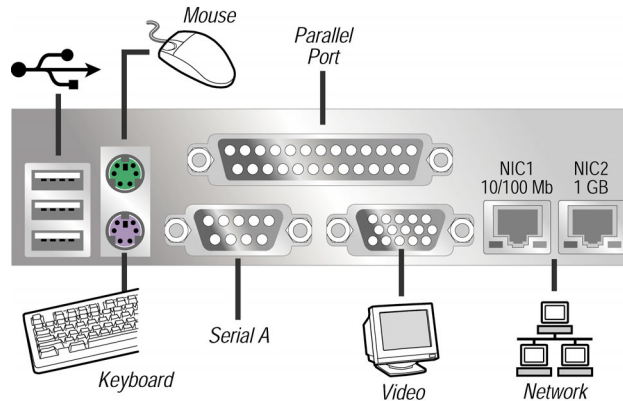
OM14911

Finishing Up

WARNING

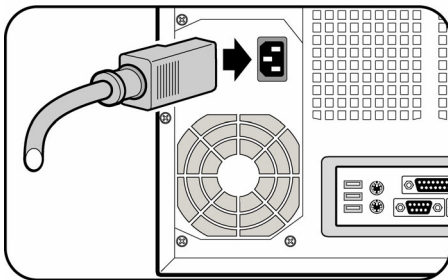
Install the chassis access cover before finishing up (see "Installing the Access Cover" on page 19). An electrical shock hazard exists if the chassis access cover is not replaced before connecting the chassis AC power.

1. Connect your keyboard, mouse, video, and other I/O cables as shown.

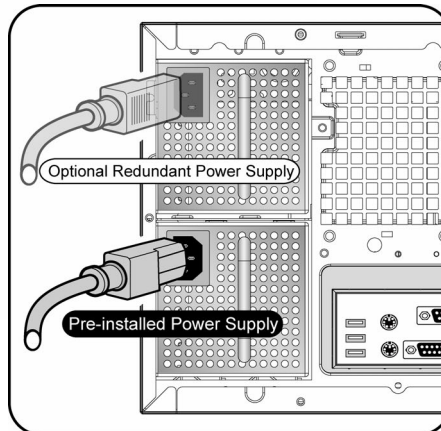


2. Connect the power cable to the back panel and to an AC outlet as shown.

Intel Server Chassis SC5200 Base version



Intel Server Chassis SC5200 Base Redundant Power Version



Note:

The Intel Server Chassis SC5200 Base Redundant Power version ships with one power supply. To enable redundant power, a second power supply must be ordered and installed. To order a second power supply, please visit <http://www.shop-intel.com/shop/>.

Software Installation

Updating the BIOS

Intel highly recommends that you go to the Intel Server Board SE7501CW2 support Web site and download and install the latest system BIOS update for your operating system. The Intel Server Board SE7501CW2 support Web site is:

<http://support.intel.com/support/motherboards/server/SE7501CW2/index.htm>. You'll find the latest BIOS at the *Software and Drivers* link.

The BIOS update simplifies the BIOS update process by providing all of the necessary files in one download designed to fit on one floppy disk. This package is most efficient when used in conjunction with the System Resource CD that ships with the Intel Server Board SE7501CW2. See the readme file and release notes for complete installation instructions.

Installing the Operating System

Consult your chosen operating system's documentation for information on setting up the operating system for your server. That documentation takes up where this guide leaves off, and steps you through setting up your server's operating system. Be sure to install the System Update Package first, then format the boot drive with an appropriate Intel Server Management drive partition, and then install the OS. When you are finished installing the server OS, install Intel Server Management and the Intel Server Maintenance and Reference Training Tool CD (Intel SMaRT Tool).

For a list of validated operation systems, see:

<http://support.intel.com/support/motherboards/server/SE7501CW2/index.htm>

LANDesk* Client Manager

LANDesk* Client Manager makes it easier to manage a computer and troubleshoot common computer problems.

Use Client Manager to:

- View system inventory
- Monitor a computer's health
- Receive alerts for system events
- Remotely power off, power on, and reboot client computers
- Monitor configuration changes

Installing LANDesk Client Manager

Client Manager has two different management consoles that you can install: a client (single, end-user) console and an administrator (multi-node manager) console.

- **Client:** The client version enables an end user to view information and manage alerts for a local computer. This version doesn't permit a user to select and view remote computers, or power on/off other computers.
- **Administrator:** The administrator version enables you to manage remote client computers on the network. This means you can view information, generate reports, receive alerts, and power on/off other computers remotely. To remotely reboot, power off, or power on client computers, the administrator version must be installed on at least one computer that is attached to the network. The administrator console is not designed to be a mobile management console. The best way to manage client computers from multiple locations is to connect to your administrator console via Internet Explorer* 5.5 from various computers on your network.

Installation instructions and further information on LANDesk Client Manager are available in the documentation included on the *Server Board SE7501CW2 Resource CD*.

LANDesk System Requirements

To run Client Manager on your network, the administrator and client computers must comply with these system requirements.

Administrator computers

- Windows* 2000 or Windows XP for the administrator console
- 64 MB of RAM for Windows 2000, 128 MB of RAM for Windows XP

Client computers

- Windows 98 Second Edition, Windows Me, Windows NT* 4.x (Service Pack 6a or later), Windows 2000, or Windows XP for the client console
- 24 MB of RAM for Windows 98 Second Edition, 32 MB of RAM for Windows Me or Windows NT, 64 MB of RAM for Windows 2000, 128 MB of RAM for Windows XP

Intel Server Maintenance and Reference Training Tool CD (Intel SMaRT Tool)

The Intel Server Maintenance and Reference Training Tool CD (Intel SMaRT Tool) is an interactive software tool providing support information to assist with the maintenance and repair of Intel processor-based server systems and accessories. The Intel SMaRT Tool features visual, step-by-step instructions for replacing parts; a complete Field Replacement Unit (FRU) database containing part numbers and images; product spares lists; and worldwide Intel support information.

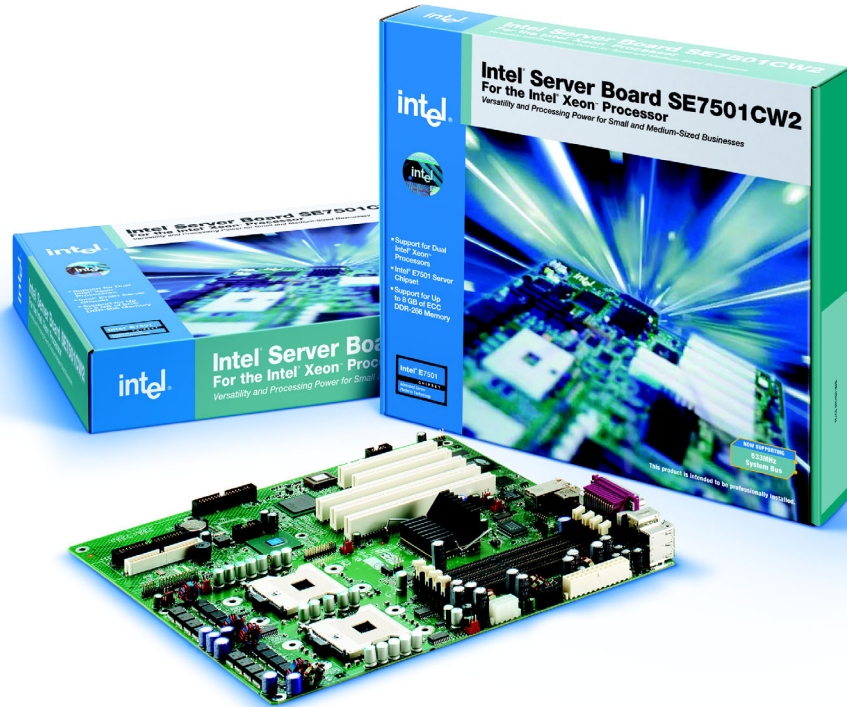
You can install the software on a server or on a workstation used to manage the server. The information here describes installation on a system running a Microsoft Windows operating system, which is the only operation system that is compatible with the Intel SMaRT Tool.

Installing the Intel SMaRT Tool

Follow the instructions below to install the Intel SMaRT Tool on your system.

1. Insert the *Intel® Server Board SE7501CW2 Resource CD* into the system's CD-ROM drive.
2. Click **Intel SMaRT Tool** in the menu on the left side of the screen.
3. In the green **Make a Selection** drop-down menu, select **SMaRT Tool Install Guide**. Print the Guide, and keep it on hand for reference.
4. Review the *Intel SMaRT Tool Install Guide* prior to proceeding.
5. In the Make a Selection drop-down menu, select **Install SMaRT Tool**.
6. Click the **Run Installer** icon to launch the Intel SMaRT Tool Setup program.
7. Follow the on-screen installation instructions. Review the Intel Software License Agreement, and click **Accept**. When installation is complete, launch Intel SMaRT Tool.
8. On the Welcome page, click **Systems**.
9. Select **System > Servers > Xeon > SE7501CW2 SC5200**, and then follow the on-screen instructions to download the SE7501CW2 SC5200 server system module. You must have Internet access to download the server system module. When the download is complete, Intel SMaRT Tool will restart.
10. Select **System > Servers > Xeon > SE7501CW2 SC5200** to access information on your new server system.

Thank you for purchasing Intel products!



For additional integration resources, please visit www.support.intel.com.

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