# Intel® Server Board SE7500WV2 Quick Start User Guide

Start Here

Thank you for buying an Intel® Server Board. The following information will help you prepare your server board for integration with your selected server chassis.

This Guide is for technically qualified persons. Expanded installation instructions and complete product information are available in the *Product Guide* on the Server Board Documentation CD. Spanish and Simplified Chinese translations of the *Product Guide* are also available on the Documentation CD.

Before you begin
You will need the following tools and equipment:

Phillips* screw driver
Anti-static wrist strap
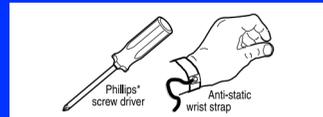
⚠ See your *Product Guide* for product Safety and EMC regulatory compliance information.

⚠ If you are not familiar with ESD [Electro-Static Discharge] Procedures to be used during system assembly, complete ESD Procedures are described in your *Product Guide*.

Additional resources and support for your server board can be found at:
http://support.intel.com/support/motherboards/server/SE7500WV2

💡 DID YOU KNOW?
You can use the bag from your server board as an anti-static pad during installation.

Accessories and Order Codes

1U SCSI Backplane	BCW1USBP
1U ATA Backplane	BCW1UABP
DVD-ROM/Floppy Module	AXXDVDFLOPPY
CD-ROM/Floppy Module	AXXCDFLOPPY
RJ45 to DB9 Serial Connector Converter	AXXRJ45DB9
Intel® RAID Controller SRCMR	SRCMRU
Intel® Server RAID Controller SRCU31L	BOXSRCU31L
Intel® PRO/100 XT Server Adapter	PWLA8490XTL

A complete list of accessories and spares can be found at:
www.intel.com/go/serverbuilder

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- Sales tools such as videos and presentations
- Configurator Tools to help you build complete solutions
- Training information such as the Intel® Online Learning Center
- Support Information and much more

†Available only to Intel® Channel Program Members, part of Intel® e-Business Network.

Reference

Common Problems and Solutions

The system sometimes works, but is exhibiting erratic behavior.
- This is typically the result of using an under-rated power supply. Make sure you are using at least a 350 W power supply.

The system does not boot or show video at power on.
- If configuring with only one processor, verify that the processor is in the Primary Processor socket.
- Beep code 1-3-3-1 means you have unrecognized or bad memory. Remove and replace DIMMs one at a time to isolate which one is causing problems.
- Remember, all DIMMs must be:
  - Registered DDR 200 compliant
  - The same speed
  - From the same manufacturer
  - Installed in pairs beginning with DIMM 1A and 1B
  - Installed with no empty sockets in between
- Your power supply must provide 0.8 A of +5 V Standby current to support WOL. If the standby current is not present, your board will not boot.

Configure DTR Jumpers

Pins 1 – 2   Pins 3 – 4

6 4 2   6 4 2
J5A2

Jumpered Pins	Function
1 – 2	DCD – DTR
3 – 4	DSR – DTR

1 Install the Server Board into your Chassis ...
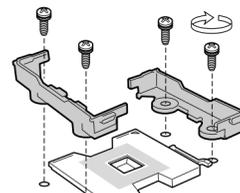
Go to Server Board Quick Start User's Guide.
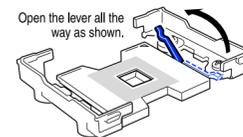
2 Installing the Processor[s]

Notes and Cautions:
1. If only ONE processor is to be used, it must be installed in the Processor Socket 1.
2. Do not mix processors of different types or frequencies.
3. When unpacking a processor, hold by the edges only to avoid touching the pins.
4. This server board has "zero-insertion force" sockets. If processor does not drop easily into socket holes, make sure lever is in the full-open position.
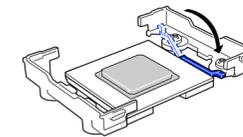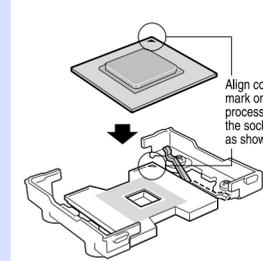
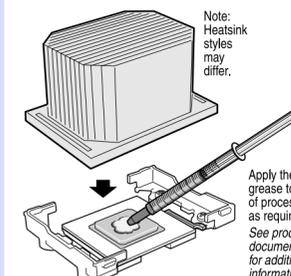### A Installing the Processor Retention Devices

B Open the Socket Lever
Open the lever all the way as shown.

C Install the Processor
Align corner mark on the processor to the socket as shown.

D Close the Socket Lever

E Installing the Heat Sink
Note: Heatsink styles may differ.

Apply thermal grease to top of processor as required.
See processor documentation for additional information.

F Attaching the Heat Sink Retention Clips

Ⓐ Tab at inside of retention clip engages slot on "heatsink base" during installation.
★ Note that center "dogleg" slot in clip provides room for side-to-side motion while engaging retention clip slots located at each side.
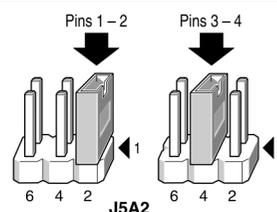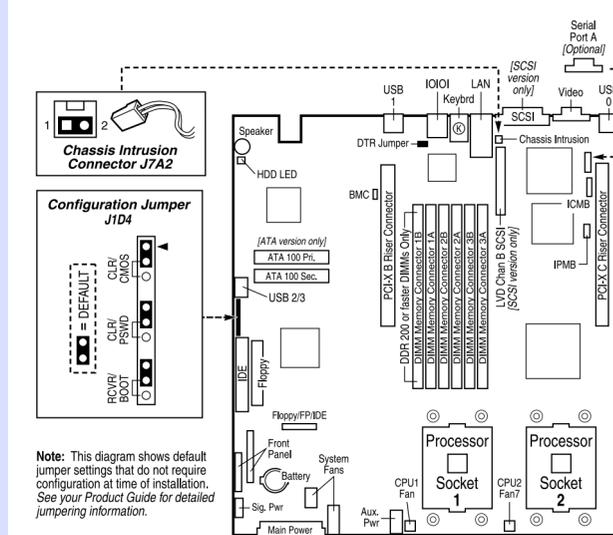
Retention Clip

Side Plastic Tab
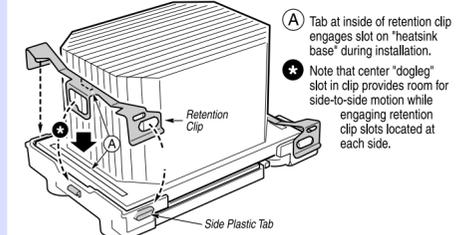
NOTE: For ease of installation, BOTH retention clips should be installed simultaneously.

Side Tab
Center Tab

1 Position both clips as shown, Make sure tab Ⓐ above engages slot in heatsink base.
2 Slide clip in direction shown, Note location of center plastic tab.
3 Press downward on retention clip end to engage side plastic tab.
4 Snap other end as shown.

Processor Socket 2
Processor Socket 1
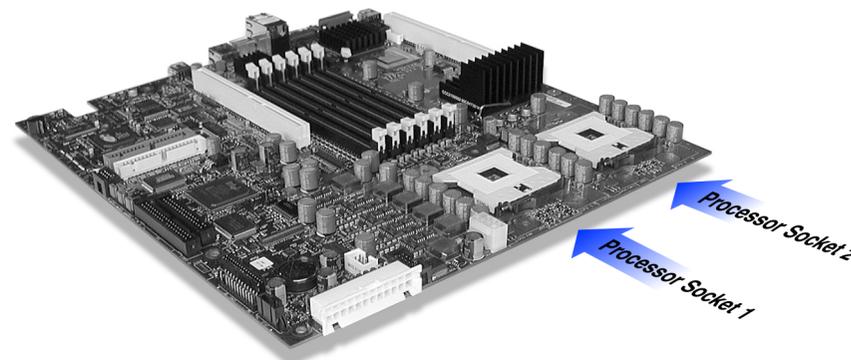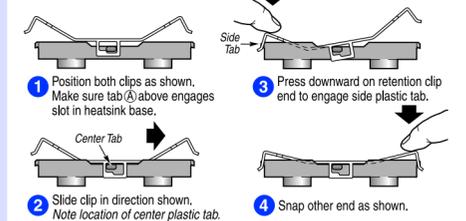
3 Installing Memory

DIMMs must be installed in PAIRS, beginning with Slots **1B** and **1A**.
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 socket levers are securely latched.

DIMM Slot 1B

1B 2B 3B
1A 2A 3A

Two DIMMs Shown Installed
Off-center Notch in DIMM Slot

Note: Use DDR 200 or faster DIMMs only. See "Minimum Hardware Requirements" in your SE7500WV2 Product Guide for correct DIMM specifications.

⚠ Avoid touching gold contacts when handling or installing DIMMs.

Server Board Component and Jumper Descriptions

Serial Port A [Optional]

Chassis Intrusion Connector J7A2

USB 1   IOIOI   LAN Keybrd   [SCSI version only]   Video   USB 0

SCSI

Speaker
DTR Jumper
Chassis Intrusion
HDD LED
BMC ⬛
ICMB
IPMB

Configuration Jumper J1D4

= DEFAULT
CLR CMOS
CLR PWD
RCVR BOOT

[ATA version only]
ATA 100 Pri.
ATA 100 Sec.
USB 2/3

IDE
Floppy
Floppy/FP.IDE

Front Panel
Battery
System Fans
Sig. Pwr
Aux. Pwr
Main Power

PCI-X B Riser Connector
PCI-X A Riser Connector

DDR 200 or faster DIMMs Only
DIMM Memory Connector 1B
DIMM Memory Connector 1A
DIMM Memory Connector 2B
DIMM Memory Connector 2A
DIMM Memory Connector 3B
DIMM Memory Connector 3A

LVD Chan B SCSI [SCSI version only]

CPU1 Fan
CPU2 Fan7

Processor Socket 1   Processor Socket 2

Note: This diagram shows default jumper settings that do not require configuration at time of installation. See your Product Guide for detailed jumpering information.

4 Getting Started with Intel® Server Management [Optional]

Intel® Server Management (ISM) provides real-time monitoring and alerting for your SE7500WV2 server hardware, as well as emergency remote management and remote server setup. Intel Server Management uses a client-server architecture.

The Service Partition on the server hard drive lets you remotely access the server for emergency management and remote power control. Remote access is provided through either a modem or network connection.

To get started with ISM, you install the Service Partition first, then the system's operating system, and finally ISM.

The following steps describe installation onto a system running a Windows* operating system. The procedures for installing on other operating systems are outlined in the ISM Installation and User's Guide.

Installing the Service Partition
1. Insert the System Resource CD into the server's CD-ROM drive.
2. Restart or power on the server.
3. Press <Esc> during the boot cycle.
4. When POST completes, the system will display the Select Boot Device dialog box. Choose ATAPI CD-ROM and press <Enter>.

5. Run the Server Configuration Wizard. Follow the on-screen directions and/or help.
6. When the checkbox screen appears, we recommend you accept the defaults. At the least, you should select Install/Update a Service Partition.
7. Continue following the on-screen directions. Access the on-line help as necessary.
8. When the server reboots, you are ready to install your operating system.

Install your Operating System
Install your operating system now.

Install Intel Server Management
With the system running, insert the ISM CD. On a Windows system, the Setup program will autorun. Choose ISM (which runs the setup.exe program). Follow the onscreen directions. For more details, see the ISM Installation and User's Guide.

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