

8 Install Heat Sink(s)

The heat sink attaches to standoffs installed directly to the chassis. Each heat sink has four captive fasteners.

IMPORTANT NOTES:

1. Thermal Interface Material (TIM) must be installed to the top of the processor before installing a heat sink over a processor.
2. Both heat sinks must be installed, regardless of the number of processors installed.
3. Use only the heat sinks provided with this server system.

A Apply only enough TIM to uniformly cover the top of the processor as shown. TIM packaging may vary.

B Align four heat sink fasteners with matching mounting holes and place onto the server board.

C Using a Phillips screwdriver, tighten each fastener diagonally, according to the number sequence shown.

Note: Heatsink styles may differ.

9 Install Rack Conversion Kit (optional)

For complete steps on rack conversion, see the *Rack Conversion Kit Installation Guide*.

10 Install Floppy, CD or Floppy/CD/DVD Slimline Combo (optional)

To install a floppy, optical device, or a floppy/CD/DVD slimline combo device, see your User Guide for instructions.

Notes:

- The slimline floppy/CD combo drive must be installed in the top slot of the upper bay.
- If you plan to configure your system for a rack mount installation, see the instructions that come with your rack mount kit for proper device orientation in the upper bay.
- Do not install bezel or top cover as directed by user guide.

11 Remove HDD Cage

A Push blue plastic release mechanism upward to release HDD cage.

B Slide hard drive cage out of chassis bay.

Note: If you plan to install fixed hard drives, proceed to Step 13.

12 Install Hot-swap Drive Cage (optional)

To install hot-swap drives, see the *Drive Cage Upgrade Kit Installation Guide*.

6-drive hot-swap drive cage

13 Install Hard Drives into Fixed Drive Bay

A. Open Cage Access Doors
Loosen the captive thumb screw, then open the upper door.
Open the lower door.

B. Remove Device Slides

C. Install Slides to Hard Drive
Note: Device slides are tool-less. Insert slide tabs into hard drive mounting holes and press firmly into place.

Fixed Drive Bay Hard Drive Installation (cont.)

D. Insert Drive/Slide Assembly into Cage

Note: Make sure connector end of drive faces toward the rear of the cage.

Repeat this procedure for each drive. Close cage doors and tighten captive thumb screw.

14 Install Fixed Cage into Chassis

A Push HDD cage into bay until blue plastic retention mechanism locks into place.

B Connect data and power cables to each drive.

15 Install and Route SATA Data Cables to Drive Bays

Note: All cables (except SATA cables) are pre-routed by the factory. Two SATA cables are supplied with the system.

SATA Cable Routing
Chassis Primary Side View

16 Install Add-in Cards

A Open back panel PCI add-in card retention device by pressing open from inside of chassis.

B Remove PCI slot shield by pushing out from inside of chassis.

C Insert add-in card into server board PCI slot.

D Close back panel PCI add-in card retention device.

E Replace PCI add-in card retainer.

17 Install Additional Hot Swap Power Supply Module (optional)

A Remove two screws and remove power supply filler panel.

B Insert power supply module until it clicks into place.

C Secure with screw as shown only if shipping chassis to another location.

18 Re-install Air Duct

Read this Before Installing Air Ducts!

Note: Before installing the processor air duct, it is important to view the features that interconnect or latch.

A These two tabs slide into matching hooks on the chassis center wall.

B These two tabs slide into matching slots on the top edge of the chassis center wall.

19 Install Processor Air Duct

1 Make sure that tabs (A) engage their matching chassis hooks before inserting tabs (B) into chassis slots.

Note: Use care to avoid pinching wires and cables.

19 Rackmount Configuration (optional)

If you intend to configure your server as a pedestal system, disregard this step.

If you intend to configure your server as a rack mount system, go to the instructions that came with your rack mount kit to complete your server assembly.

20 Re-install Bezel Assembly

A Set chassis upright if not already in upright position.

B Open the front door of the bezel assembly and remove bezel filler panel(s) that correspond to installed devices.

C Close the outer bezel door.

D Fit right edge of bezel assembly against front of chassis and engage plastic bezel hooks into raised metal slots at chassis edge.

E Rotate bezel assembly toward chassis and latch two plastic tabs on left side of bezel assembly to chassis.

CAUTION: Do not attach bezel assembly to chassis at MORE than a 40 degree angle.

21 Replace Side Cover

CAUTION: This chassis must be operated with the cover installed to ensure proper cooling.

Re-install cover and latch securely.

22 Finishing Up

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

2. Connect the AC power cable(s) last.

CAUTION: 830 watt power supplies require a 16-gauge power cord.

Reference

Front Panel Controls and Indicators

A. ID Button
B. System Reset Button
C. NIC1 LED
D. System Power Button
E. Hard Drive Activity LED

F. System ON LED
G. NIC2 LED
H. ID LED
I. Status LED
J. NMI Button

Accessories and Order Codes

Rack Conversion Accessory Kit	ARIGRACK
6-Drive Bay (Expander)	AXX6DRV3G /EXP
Slimline CD-ROM Drive	AXXSDD-CDROM
Slimline DVD-ROM Drive	AXXDVDCDR-DVD
Slimline USB CD-Floppy Bracket	AXXCSBFDDBRK
Slimline USB Floppy Drive	AXXUSBFLPPY
PM Kit	ARIG2PMKIT

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

Intel® Server Board Component Layout

Y. System Fan 2
Z. System Fan 1
AA. CPU Power
AB. USB 4-5 Header
AC. IDE Connector
AD. HDD LED
AE. Intel Local Control Panel Header
AF. SATA_SGPI0
AG. HSBP_A Header
AH. SATA 0
AI. SATA 1
AJ. SATA 2
AK. SATA 3
AL. SATA 4
AM. SATA 5
AN. USB Connector
AO. Front Panel Header
AP. DIMM Riser Card Socket 1
AQ. CPU 2
AR. CPU Voltage Regulator
AS. System Fan 4
AT. System Fan 3
AU. IPMB

RR. PCI-X* 64-100 Slot 1
RQ. PCI-X 64-100/133 Slot 2
C. PCI Express* x4 Slot 3
D. RMM_NIC header
E. PCI Express x8 Slot 4
F. PCI Express x8 Slot 5
G. CMOS Battery
H. P12V4
I. Intel RMM Connector
J. Back Panel I/O Ports
K. Diagnostic LEDs
L. ID LED
M. System Status LED
N. Main Power Connector
O. Auxiliary Signal Conn.
P. DIMM Riser Card Socket 2
Q. DIMM Riser Card Socket 1
S. CPU 1
T. CPU 2
U. System Fan 4
V. System Fan 3
W. System Fan 3
X. IPMB

DIMM Riser Socket ID LEDs

A1_FLT	C1_FLT
A2_FLT	C2_FLT
A3_FLT	C3_FLT
A4_FLT	C4_FLT
B1_FLT	D1_FLT
B2_FLT	D2_FLT
B3_FLT	D3_FLT
B4_FLT	D4_FLT

LEDs for DIMM Riser Card 1
LEDs for DIMM Riser Card 2

Chassis Features and Components

1. Hot Swap Power Supply
2. Second Hot Swap Power Supply (accessory)
3. Rear Serial-B Connector
4. PCI Add-in Card Panel
5. Memory Riser Cage
6. Processor Air Duct
7. Fixed Fan - Large
8. Fixed Fan - Small
9. Hard Disk Drive Cage Release Mechanism
10. Front Panel Controls
11. 5.25-inch Device Bays (3)
12. Front Panel USB/Serial B
13. Fixed Drive Cage - 6 Drive

Intel® Server System SC5400RA