10 Connect Processor/MVR Power

Server Board

MVR0 MVR1 MVR2 MVR3

MVR Power Connector

MVR

A Using the Y-power cable(s), connect each MVR to the server board as shown above.

11 Install Air Flow Guide

12 Install PCI Card Divider

A Lower PCI divider onto the server board as shown.

B Make sure divider is placed correctly and that latch engages the chassis tab.

13 Install Hard Drive Backplane Cover

A Install the air flow guide as shown. *Note the interlocking features at the front of the guide.*

Air Flow Guide

14 Install Power Supply Box

A Align the power supply box with four attach points and set into chassis.

B Tighten four captive fasteners.

15 Install Power Supplies

A Insert the power supply until the connector on the bottom side engages the server board socket.

B Close both locking levers.

IMPORTANT NOTE:
If 100 – 110 VAC is used, both power supplies must be installed and connected for the server to operate. Redundancy is only available with 200 – 240 VAC.

16 Remove Memory Boxes

Filler Panel
To remove a memory box filler panel, pinch the two tabs together and pull out. *Note: Save filler panels in case you remove a memory box later.*

Memory Box
To remove a memory box, push the green tab, open the front panel and slide out of the chassis.

17 Install Memory Box DIMMs

DDR2 DIMM Memory Identification:

⚠ This server board supports up to 32 DDR2-533 or DDR2-667 registered ECC DIMMs with 4-bit DRAMs only.

⚠ DDR2 memory varies in height. DO NOT MIX different DIMM heights and types.

DIMM notch and socket bump must align as shown.

DDR2   DDR

Memory Configurations and Population Order:

DIMM0A0
DIMM0A1
DIMM0B0
DIMM0B1

DIMM2B1
DIMM2B0
DIMM2A1
DIMM2A0

A minimum of four DIMMs must be installed into each installed memory box. Populate DDR2 DIMMs in the order of 0A1, 0B1, 2B1 and 2A1, then 0A0, 0B0, 2A0 and 2B0.
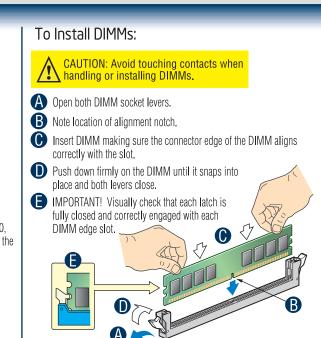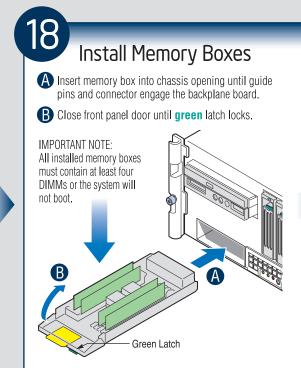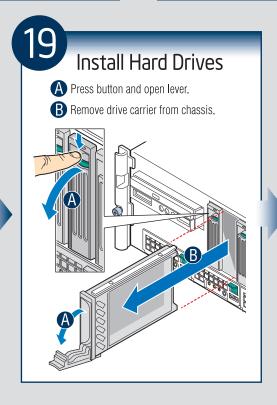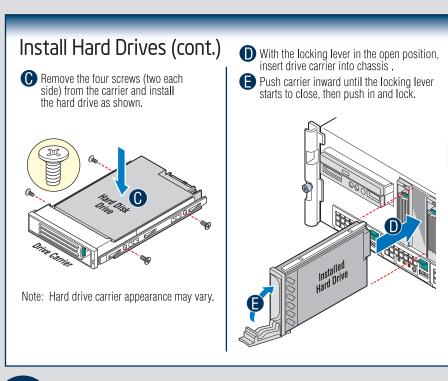
DIMMs 0A0, 0A1, 0B0, and 0B1 are positioned in reverse orientation from 2B1, 2B0, 2A1, and 2A0. Be sure to reverse the DIMMs accordingly. Make sure the notches at the center of the DIMMs line up correctly with the tabs in the center of the sockets.

For additional memory information, see the Product Guide that accompanied your Intel® Server System SR9000MK4U, or go to:
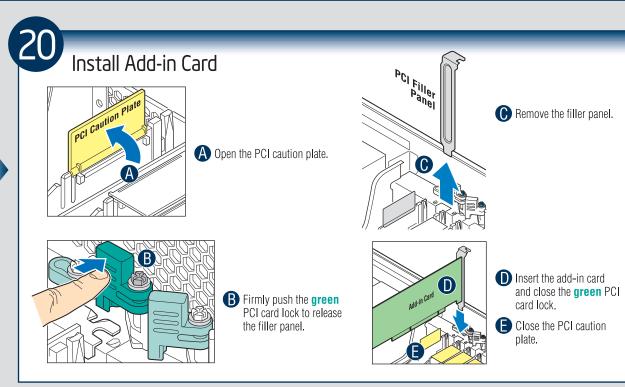http://support.intel.com/support/motherboards/server/chassis/sr9000mk4u

Memory sizing and configuration is supported only for qualified DIMMs approved by Intel®. For a list of supported memory, see the tested memory list at http://support.intel.com/support/motherboards/server/chassis/sr9000mk4u/compat.htm
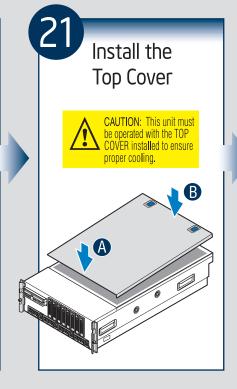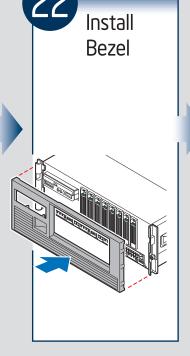
To Install DIMMs:

⚠ CAUTION: Avoid touching contacts when handling or installing DIMMs.

A Open both DIMM socket levers.

B Note location of alignment notch.

C Insert DIMM making sure the connector edge of the DIMM aligns correctly with the slot.

D Push down firmly on the DIMM until it snaps into place and both levers close.

E IMPORTANT! Visually check that each latch is fully closed and correctly engaged with each DIMM edge slot.

18 Install Memory Boxes

A Insert memory box into chassis opening until guide pins and connector engage the backplane board.

B Close front panel door until green latch locks.

IMPORTANT NOTE:
All installed memory boxes must contain at least four DIMMs or the system will not boot.

Green Latch

19 Install Hard Drives

A Press button and open lever.

B Remove drive carrier from chassis.

Install Hard Drives (cont.)

C Remove the four screws (two each side) from the carrier and install the hard drive as shown.

Hard Disk Drive

Drive Carrier

D With the locking lever in the open position, insert drive carrier into chassis .

E Push carrier inward until the locking lever starts to close, then push in and lock.

Installed Hard Drive

Note: Hard drive carrier appearance may vary.

20 Install Add-in Card

PCI Caution Plate

PCI Filler Panel

A Open the PCI caution plate.

B Firmly push the green PCI card lock to release the filler panel.

C Remove the filler panel.

Add-in Card

D Insert the add-in card and close the green PCI card lock.

E Close the PCI caution plate.

21 Install the Top Cover

⚠ CAUTION: This unit must be operated with the TOP COVER installed to ensure proper cooling.

22 Install Bezel

Platform Cabling Diagram

CPU Socket0   CPU Socket1   CPU Socket2   CPU Socket3

23 Finishing Up

Before installing your operating system, you must finish your system installation and connect back panel I/O connectors and AC power.

1. Make sure you have replaced the system cover.
2. Connect your USB keyboard, USB mouse, video and other I/O cables/ devices as shown.
3. Connect the AC power cords.

IMPORTANT NOTE:
If 100 – 110 VAC is used, both power supplies must be installed and connected for the server to operate. Redundancy is only available with 200 – 240 VAC.

AC Power

PCI Slots   Network   Serial Port B

USB 0, 1   Video

intel

Reference

Front Panel *Controls and Indicators*

A   B

C   D   E   F   G   H   I   J   K

A DVD Indicator LED
B DVD Drawer Release
C. USB 0
D. USB 1

E. Power Button/LED
F. Reset Button
G. Diagnostic Interrupt Button
H. ID Button
I. Power Fault LED
J. Cooling Fault LED
K. General Fault LED

Memory Box Front Panel *Controls and Indicators*

A Memory Box Release Lever
B. Mirror LED (green)
C. Power LED (green)
D. Attention LED (orange)
E. Hot Swap Button
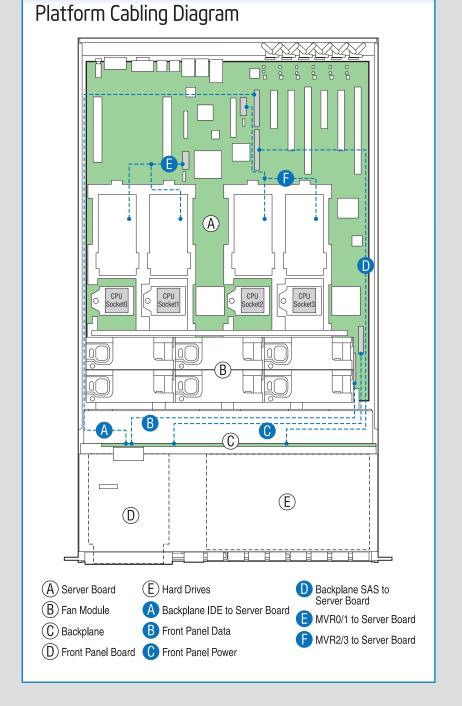
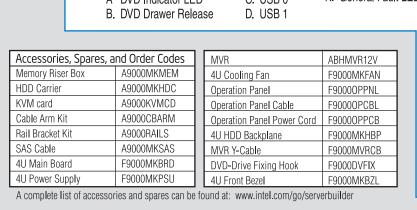B C D E

See your Intel® Server System SR9000MK4U Product Guide for expanded component identification and connection information.

Accessories, Spares, and Order Codes	
Memory Riser Box	A9000MKMEM
HDD Carrier	A9000MKHDC
KVM card	A9000KVMCD
Cable Arm Kit	A9000CBARM
Rail Bracket Kit	A9000RAILS
SAS Cable	A9000MKSAS
4U Main Board	F9000MKBRD
4U Power Supply	F9000MKPSU

MVR	ABHMVR12V
4U Cooling Fan	F9000MKFAN
Operation Panel	F9000PPNL
Operation Panel Cable	F9000PCBL
Operation Panel Power Cord	F9000PPCB
4U HDD Backplane	F9000MKHBP
MVR Y-Cable	F9000MVRCB
DVD-Drive Fixing Hook	F9000DVFIX
4U Front Bezel	F9000MKBZL

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

A Server Board	E Hard Drives
B Fan Module	A Backplane IDE to Server Board
C Backplane	B Front Panel Data
D Front Panel Board	C Front Panel Power

D Backplane SAS to Server Board
E MVR0/1 to Server Board
F MVR2/3 to Server Board