

8 Install Hard Drives/Carriers

- Remove the four screws securing the drive carrier to the chassis.
- Lift the carrier straight up and remove.
- Install each drive into the carrier using four screws. Make sure the connector end of each drive faces toward the front of the chassis.
- Re-install drives/carrier assembly into chassis as shown.

9 Cabling Hard Drives

Attach and route the SATA cables between the hard drive carrier and the server boards as shown.

Cable Legend
 BLUE indicates Data Cable
 RED indicates Power Cable

10 Install PCI Add-in Card

- Remove filler panel from the add-in card slot.
- Insert add-in card until it seats in the riser connector.
- Secure add-in card with screw as shown.

CAUTION: Observe normal ESD precautions when installing add-in cards.

11 Install PCI Add-in Card Riser Assemblies

- Align the riser card connector with the server board riser socket and the back panel opening.
- Press the riser assembly into place.
- Secure the riser to the back panel with a screw as shown.

12 Optional Accessory: Install Intel® Z-U130 Value Solid State Drives (Intel® VSSD)

- Attach the drive base to the chassis using three screws as shown.
- Snap the connector card to the base. Note the three plastic tabs.
- Attach the flash drive connector to the left end connector and snap the left end of the flash drive under the two plastic tabs as shown.
- Cable the Intel® VSSD modules as shown.

13 Install Processor Air Ducts

Install processor air ducts as shown.

Use care to avoid pinching system cables.

14 Install the Top Cover

- Place cover onto chassis and slide forward.
- Install two screws at front.
- Install one screw at the rear.

15 Finishing Up

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

- Make sure you have replaced the system cover.
- Connect your keyboard, mouse, video and other I/O cables/devices as shown. Then connect the AC power cord.

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

16 Install Software

- Confirm BIOS Version:** Look on the Server/System Management screen in the BIOS Setup Utility to determine the installed BIOS version. Compare this to the versions at: <http://support.intel.com/support/motherboards/server/x38ml>. If new versions are available, update the BIOS on your server. See the User Guide on the Intel® Server Deployment Toolkit CD for update instructions.
- Install your Operating System:** Use the instructions provided with the operating system.
- Install Operating System Drivers:** With the operating system running, insert the Intel® Server Deployment Toolkit 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.
- Install Intel® System Management Software 2.0:** Follow the directions that come with the dual-CD management software pack to enable remote management of your server. You will need a USB or SATA optical drive to load this software.

Platform Cabling Diagram

Power Cabling Legend:
 A Power to Server Board
 B Power to Memory Fan
 C Power to System Fan
 D Power to Hard Drive 1
 E Power to Hard Drive 2

Data Cabling Legend:
 F Front Panel to LEFT Server Board
 G Front Panel to RIGHT Server Board
 H Intel® VSSD to Server Board
 I Hard Drive Carrier to Server Board
 J Front Panel Board to LEFT Intel® VSSD
 K Front Panel Board to RIGHT Intel® VSSD

Reference

Front Panel Controls and Indicators

- A USB 2.0 Port
- B Power Button
- C Power/Sleep LED
- D System Status/Fault LED
- E LAN 1, LAN 2 Status LEDs
- F Hard Drive Activity LED
- G System Reset Button

Note: Both sets of front panel controls are identical.

Intel® Server Board X38ML Component Layout

See your Intel® Server Board X38ML User's Guide for expanded component and connection information.

Optional Accessories and Order Codes		
1U passive heat sink with embedded heat pipe	AXXUPHSLW	
Infiniband DDR HCA card, 20 Gb/s, PCI Express x8	AXXIBDRPT	
Intel® Server Board X38ML 10-pack,	BMLBB	
Intel® Z-U130 Value SSD 1 GB module, standard connector	SSDUSM0001G1	
Intel® Z-U130 Value SSD 2 GB module, standard connector	SSDUSM0002G1	
Intel® Z-U130 Value SSD 4 GB module, standard connector	SSDUSM0004G1	

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

