

Sun Server X3-2L (formerly Sun Fire X4270 M3)

Getting Started Guide

IMPORTANT – The Sun Server X3-2L system was formerly named the Sun Fire X4270 M3 server. The product name change does not indicate any change in system features or functionality.

This guide describes the minimum steps you must perform for initial installation and power-on of the server. For detailed installation information, refer to the *Sun Server X3-2L Installation Guide*. You can access the product documentation using Oracle System Assistant and at the Oracle documentation web site:

<http://www.oracle.com/pls/topic/lookup?ctx=SunServerX3-2L>

Server Front Panel Components

FIGURE 1 Sun Server X3-2L Front Panel Components

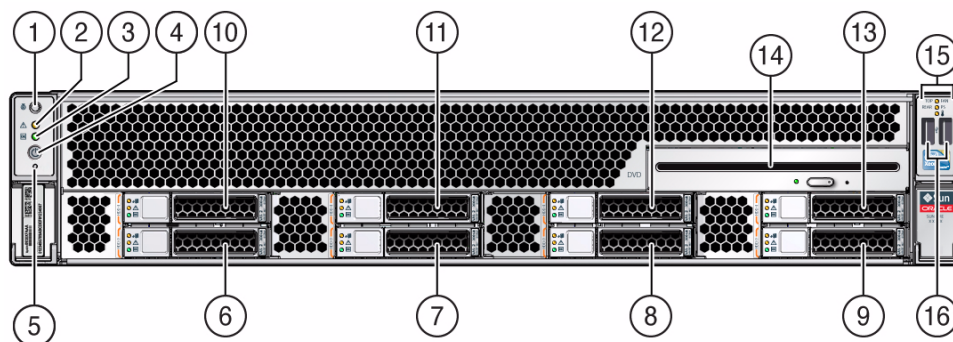


Figure Legend

1 Locator LED/Locator button: white	9 Storage disk drive 3 (optional)
2 Service Required LED: amber	10 Storage disk drive 4 (optional)
3 Power/OK LED: green	11 Storage disk drive 5 (optional)
4 Power button	12 Storage disk drive 6 (optional)
5 SP OK LED: green	13 Storage disk drive 7 (optional)
6 Storage disk drive 0 (optional)	14 SATA DVD drive
7 Storage disk drive 1 (optional)	15 Service Required LEDs (3): Top: Fan Module (amber) Rear: Power Supply (amber) Overtemp Icon: System Over Temperature Warning (amber)
8 Storage disk drive 2 (optional)	16 USB 2.0 connectors (2)

▼ Review Accessory Kit Contents and Safety Information

The Sun Server X3-2L is shipped with the components that you ordered for your configuration and with safety and legal documentation.

▼ Identify Known Issues

Review the *Sun Server X3-2L Product Notes* for information about supported software and known issues for the server.

▼ Install Optional Components

Optional components for your server might be packaged and shipped separately. If applicable, install optional components (such as DIMMs or storage drives) before mounting the server in a rack.

Refer to the *Sun Server X3-2L Service Manual* for installation procedures for optional components. For a list of optional components, navigate to the Sun Server X3-2L product page from:

<http://www.oracle.com/>

▼ Mount the Server in a Rack

For rackmounting instructions, refer to the documents included with the rail kit, the service labels on the server, and the *Sun Server X3-2L Installation Guide*.

▼ Choose a Server Setup Tool

There are three tools you can use to set up the server:

- **Oracle System Assistant** – Embedded setup tool that helps you to locally or remotely configure and update server hardware, and to install supported operating systems. Uses a dedicated storage device. In most cases, if your server is configured with Oracle System Assistant, you will use that tool to set up the server.
- **Oracle ILOM** – Preinstalled service processor that enables you to locally or remotely configure and manage server components using a dedicated network port, a sideband port, or a local serial port.
- **Oracle Hardware Management Pack** – Add-on software pack that enables you to manage hardware through the host operating system either remotely using SNMP or locally using command-line interface tools.

Oracle ILOM and Oracle Hardware Management Pack have additional management functions beyond setting up the server. If you use Oracle System Assistant to set up the server, you might also want to use one of those tools for server management.

▼ Connect the Cables and Power Cords

To locate the server cable connections, refer to “[Cabling Diagram](#)” on page 3.

1. **To cable the server for a local connection to Oracle System Assistant:**
 - a. Connect a VGA monitor to the VGA port on the server.
 - b. Connect a keyboard and mouse to the USB connectors on the server.
2. (Optional) **To cable the server for connection to Oracle ILOM:**

- **For a local serial connection** – Connect a terminal or terminal emulator to the SP serial management port labeled SER MGT.
 - **For a remote Ethernet connection** – Connect an Ethernet cable from your network to the Ethernet port labeled NET MGT.
3. For network access, connect an Ethernet cable to one of the Ethernet ports on the server (NET3-0).
 4. Connect other cables for devices such as PCIe cards, as instructed in the documentation for those devices.
 5. Route the AC power cords from an AC power source to the rear of the server.
 6. Connect the AC power cables to both power supplies to bring the server to standby power mode.



Caution – Do not operate the server unless all fans, component heat sinks, air baffles, and the top cover are installed. Damage to server components can occur if the server is operated without adequate cooling mechanisms.

Shortly after power is applied to the system, the SP OK LED will blink as the service processor (SP) is booting. The SP OK LED will be illuminated solid green once the service processor has successfully booted. After the service processor has booted, the Power/OK LED on the front panel will begin flashing slowly, indicating that the host is in standby power mode. In standby power mode, the server is not yet initialized or powered on.

Cabling Diagram

FIGURE 2 Cabling for the Sun Server X3-2L

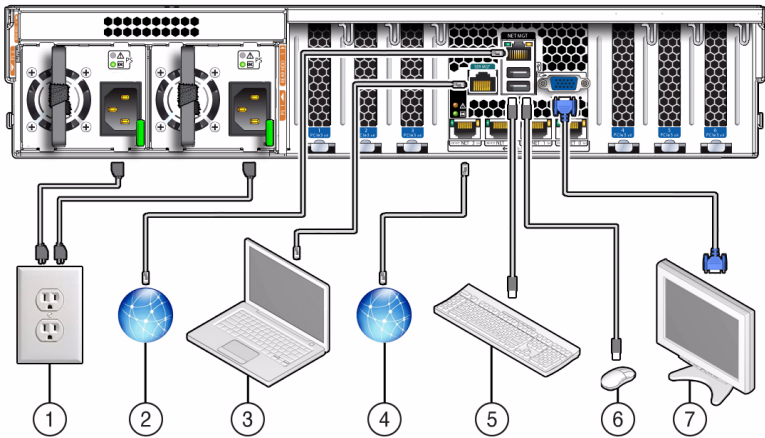


Figure Legend

1 Power supply 0 input power Power supply 1 input power	5 USB port (USB 0)
2 Network management port (NET MGT)	6 USB port (USB 1)
3 Serial management port (SER MGT)	7 Video port (VGA)
4 Ethernet ports (NET 3, NET 2, NET 1, NET 0)	

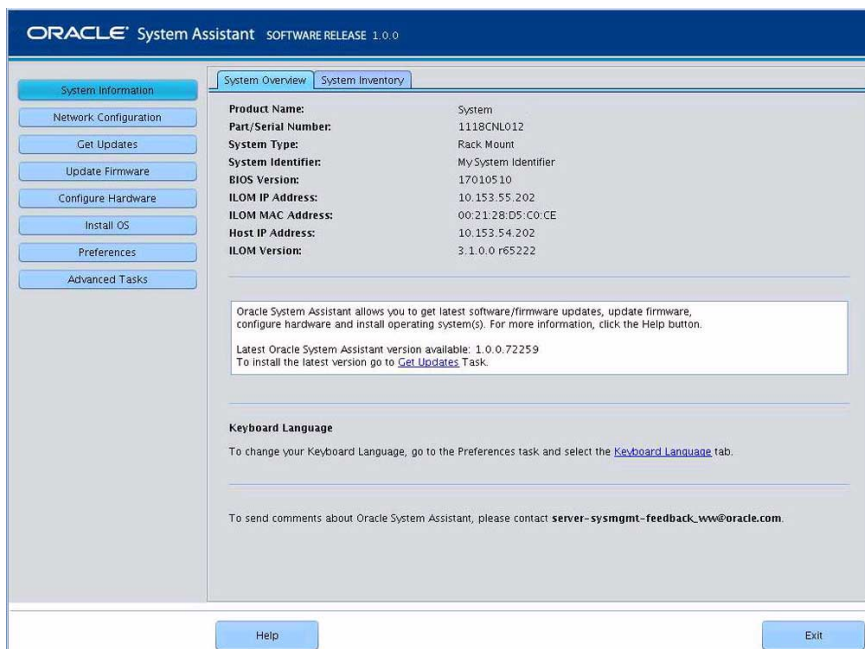
▼ Set Up Software and Firmware Using Oracle System Assistant

In most cases, you will use Oracle System Assistant to set up your server's software and firmware. For detailed instructions, refer to the *Sun Server X3-2L Administration Guide*.

1. Verify that the server is correctly installed in the rack.
2. Set up a local serial connection to the server.
 - Connect a VGA monitor to the VGA port on the server.
 - Connect a keyboard and mouse to the USB connectors on the server.

Note – You can also access Oracle System Assistant using the Oracle ILOM Remote Console. This access method requires setting up a connection to Oracle ILOM and accessing the host console using an Oracle ILOM web connection. Refer to the *Sun Server X3-2L Installation Guide* for instructions.

3. Press the front panel Power button to power on the server to full power mode.
The server boots, and power-on self-test (POST) and boot messages appear on the monitor.
Be attentive: You need to interrupt the boot process.
4. When prompted, press the F9 key.
The Oracle System Assistant application System Overview screen appears.



5. Use Oracle System Assistant to perform the following procedures:

Step	Procedure	Oracle System Assistant Screen
1	Set up the network connection.	Network Configuration
2	Get software and firmware updates.	Get Updates
3	Update Oracle ILOM, BIOS, disk expander, or HBA firmware.	Update Firmware
4	Configure Oracle ILOM.	Configure Hardware > Service Processor Configuration
5	Configure RAID.	Configure Hardware > RAID Configuration
6	Install Linux, Oracle VM, or Windows OS drivers.	Install OS For information about installing other operating systems, see “Set Up an Operating System and Drivers” on page 5.

6. (Optional) Connect to Oracle ILOM or access the Oracle Hardware Management Pack.

For instructions on connecting to Oracle ILOM or accessing Oracle Hardware Management Pack to perform server management procedures, refer to the *Sun Server X3-2L Installation Guide*.

▼ Set Up an Operating System and Drivers

The following table provides options for installing or configuring an operating system (OS).

What do you want to do?	Which OS do you want to configure or install?	Use this tool or documentation
Configure a preinstalled OS	Oracle Solaris or Oracle VM	<i>Sun Server X3-2L Installation Guide</i>
Install an OS	Windows, Linux, or Oracle VM	Oracle System Assistant
Install an OS	Oracle Solaris OS, Oracle VM, Oracle Linux and other Linux variants, Windows, or VMware ESXi	Installation guide for the OS
Install OS drivers	Any supported OS	Oracle System Assistant or the installation guide for the OS

If you do not have access to Oracle System Assistant to install drivers, download the latest Sun Server X3-2L software release from the My Oracle Support web site at:

<http://support.oracle.com>

Technical Support

If you need technical support for your system, you will need to report the hardware serial number to an Oracle Service representative. The serial number is located on the front panel of the system and on the Customer Information Sheet that is shipped with the system.

For technical support, go to: <http://www.oracle.com/support/contact-068555.html>

Documentation for This Product

The following table lists the documentation and the approximate order of the procedures that you might perform when installing a new system. You can view the product documentation using Oracle System Assistant. You can access the complete set of documents, including translations of some documents, at:

<http://www.oracle.com/pls/topic/lookup?ctx=SunServerX3-2L>

Procedures	Document Type
Review safety information.	<i>Safety and Compliance Guide</i> <i>Important Safety Information for Sun Hardware Systems</i>
Review any known issues and workarounds.	Product Notes
Cable and power on the server. Connect to service processor and configure network settings.	Installation Guide
Install and configure supported operating systems.	OS installation guide for the OS that you want to install.
Update firmware, monitor alerts, set remote access and redirection, and view component status and event logs.	Oracle Integrated Lights Out Manager (ILOM) 3.1 Documentation Collection: http://www.oracle.com/pls/topic/lookup?ctx=ilom31
Remove and replace hardware components. Customize BIOS settings.	Service Manual
Perform server administration procedures and view server-specific Oracle ILOM information.	Administration Guide
Troubleshoot and isolate server problems.	<i>Oracle x86 Servers Diagnostics, Applications, and Utilities Guide for Servers with Oracle ILOM 3.1:</i> http://www.oracle.com/pls/topic/lookup?ctx=x86diag

Documentation Comments

Oracle is interested in improving the product documentation and welcomes your comments and suggestions. You can submit comments by going to this link: <http://www.oracle.com/goto/docfeedback>

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