Sun Fire X2270 M2 Server Getting Started Guide

This guide describes the *minimum* steps you need to perform to power on and boot Oracle's Sun Fire X2270 M2 server for the first time.

Detailed installation information can be found in the *Sun Fire X2270 M2 Server Installation Guide*. For a complete list of documentation for the *Sun Fire X2270 M2 Server*, see the section "Documentation for this Product".

Contents

Carefully unpack all server components from the packing cartons. Some of the following items might be packaged separately.

- Power cord packaged separately with country kit

- Hardware applicable to the system, such as adapters (RJ-45 serial cable adapter) and network cables

- Sun Fire X2270 M2 Accessory Kit, which includes the following: *Sun Fire X2270 M2 Server Getting Started Guide and* License and safety documentation

- (*Optional*) Rackmount kit containing rack rails and installation instructions

- Optional server components

Documentation and Media Kit

You can order the optional *Documentation and Media Kit* for your system. The kit contains the server installation guide, the *Sun Fire X2270 M2 Server Tools and Drivers DVD, Sun Installation Assistant CD/DVD*, and the *SunVTS CD/DVD*. When ordering the Documentation and Media Kit, using the following marketing part number:

X8365A-X-MEDDOCKIT

Documentation and software that are included in the Documentation and Media Kit is also available at:.

- For documentation: http://docs.sun.com/app/docs/prod/server.x64#hic
- For software: http://www.oracle.com/us/products/servers-storage/servers/x64/index.html

Safety and Compliance Information

Before installing your server, see the following documents for safety information:

- *Important Safety Information for Sun Hardware Systems* – Printed document included in the ship kit.
- *Sun Fire X2270 M2 Server Safety and Compliance Manual* – See the section "Documentation for this Product".

▼ Install Optional Components

Before mounting the server in a rack, install any optional components that you ordered for your server (for example, DIMMs and HBA cards).
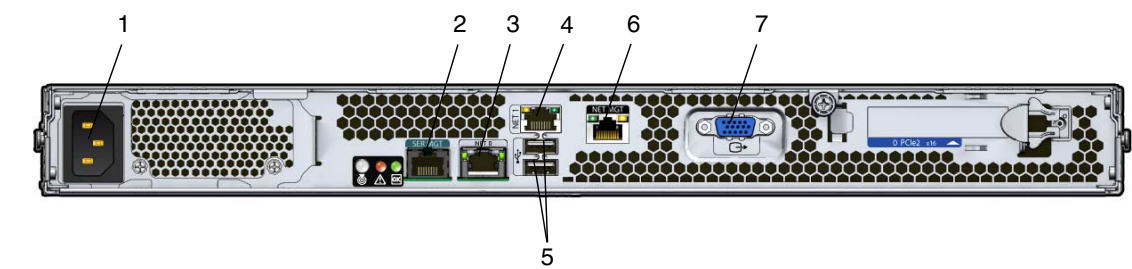
♦ **See the** *Sun Fire X2270 M2 Server Service Manual* **for the instructions on installing components.**

▼ Mount the System in a Rack

♦ **To safely and properly mount the server in a rack, see the instructions included with the rail kit, the service label on the server, or the** *Sun Fire X2270 M2 Server Installation Guide***.**
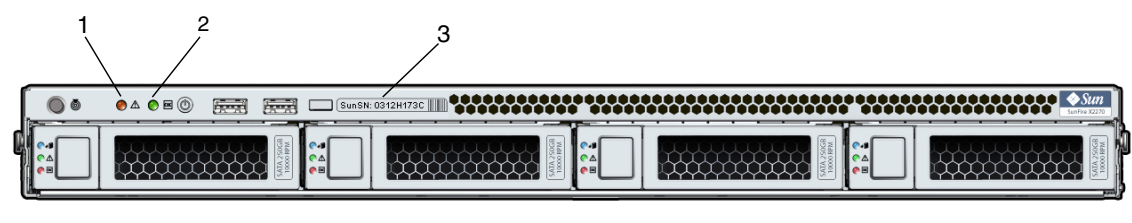
Front and Back Panel Connections and Features

FIGURE 1 Back Panel Connections

1	AC Power connector	5	USB 2.0 ports (2)
2	Serial Management (SER MGT) RS-232 RJ-45 serial port	6	Network Management (NET MGT) Ethernet port (available only in systems that contain a service processor module)
3	Gigabit Ethernet port (NET-0)	7	HD15 video connector (available only in systems that contain a service processor module)
4	Gigabit Ethernet port (NET-1)		

FIGURE 2 Front Panel Features

1	Green Power/OK LED	2	Power button	3	Serial Number

▼ Connect the Cables

1. **Connect a serial cable between the server's SER MGT port (see** **) and a terminal device.**

   You can use the supplied RJ-45 crossover adapter with a standard serial cable to achieve a null modem configuration.

2. **(Optional) Connect an Ethernet cable between the server's NET MGT port and the network to which future connections to the service processor (SP) and host will be made.**

   After the initial configuration of the system using the SER MGT port, communication with the SP and host is usually performed through this Ethernet interface.

3. **Connect an Ethernet cable between one of the server's NET ports (NET-0 or NET-1) and the network to which the server will communicate.**

4. **Connect the power cord to the power supply, but do *not* power on the server.**

   When the server is connected to an AC power source, the SP initializes and the Power/OK LED (see) blinks. After a few minutes, the SP login prompt appears on the terminal device.

▼ Log In to ILOM and Configure the SP IP Address

This section shows you how to use a serial cable and a terminal device to log in to the SP Integrated Lights out Manager (ILOM), so you can configure the SP IP address. You can also connect to the SP to perform initial setup and configuration using these alternate methods:

■ Connect to ILOM Using an Ethernet Connection (DHCP)

■ Connect to ILOM Using an Ethernet Connection (static IP address)

Note – Alternate connection methods and instructions on initial SP configuration are available in the *Sun Fire X2270 M2 Server Installation Guide*.

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1. **Log in to ILOM as `root` and use the password `changme`.**

2. **Start the serial console:**

```
-> cd /SP/console
-> start
```

3. **Refer to the ILOM documentation to configure your server's network settings.**

4. **To log out and exit ILOM, type:**

   -> **exit**

▼ Power On the System

⚠ **Caution –** Component thermal damage. Server components *require* proper cooling. Do *not* operate the server with the cover removed or without all fans, component heatsinks, air baffles installed.

♦ **To power on the server to full-power mode, press and release the Power button on the server front panel.**

When main power is applied to the full server, the Power/OK LED next to the Power button lights and remains lit (does not blink).

Note – The first time the server powers on, the power-on self-test (POST) can take up to 1 minute to complete.

▼ Update Firmware

1. **Oracle highly recommends that you use the Sun Installation Assistant (SIA) to update system BIOS and ILOM firmware. SIA is easy to use and available in the Documentation and Media Kit, or online at:**

   http://www.sun.com/systemmanagement/sia.jsp

   For more information, refer to the documentation for the version of SIA supported for your server at:

   http://docs.sun.com/app/docs/prod/install.x64svr#hic

2. **To update the system BIOS and ILOM firmware without using SIA, refer to the documentation for the version of ILOM supported for your server. See the** *Sun Integrated Lights Out Manager 3.0 Documentation Collection* **at:**

   http://docs.sun.com/app/docs/prod/int.lights.mgr30#hic

▼ Set Up the Platform Operating System, Driver Software, and Firmware

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Note – Oracle highly recommends that you use the Sun Installation Assistant (SIA) software when installing a supported Windows or Linux OS. SIA assists in locating and installing all necessary OS components.

♦ **After configuring the ILOM SP with network settings, configure the optional preinstalled operating system (OS) or install a supported Linux, Windows or Solaris OS and drivers. For more information and instructions, see the following documents.**

Operating System	Read this document:	For additional information, go to:
Preinstalled Solaris	*Sun Fire X2270 M2 Server Installation Guide*	http://www.sun.com/software/preinstall
Solaris	*Sun Fire X2270 M2 Server Installation Guide for Oracle Solaris OS*	http://www.sun.com/servers/x64/x2270m2/os.jsp
Linux	*Sun Fire X2270 M2 Server Installation Guide for Linux OS*	
	Sun Installation Assistant 2.3 through 2.4 User's Guide for x64 Servers	http://www.sun.com/systemmanagement/sia.jsp
Windows	*Sun Installation Assistant 2.3 through 2.4 User's Guide for x64 Servers*	
	Sun Fire X2270 M2 Server Installation Guide for Windows OS	http://www.sun.com/servers/x64/x2270/os.jsp
Virtualization Software	*Sun Fire X2270 M2 Server Installation Guide for Virtual Machine Software*	

For information about supported operating systems, patches, and the latest firmware, refer to the *Sun Fire X2270 M2 Server Product Notes*. Information on the latest firmware is also available at: http://www.oracle.com/us/products/servers-storage/servers/x64/index.html.

▼ Power Off the Server

1. **To perform a graceful shutdown of the system, quickly press and release the Power button.**

2. **To perform an emergency shutdown, press and hold the Power button for four seconds to force main power off and to enter standby power mode.**

Documentation for this Product

Task	Document Type	Part Number
Review the safety information.	*Safety and Compliance Manual*	821-1376
	Important Safety Information for Sun Hardware Systems	816-7190
Review any known issues and workarounds.	*Server Product Notes*	821-1344
Install rack hardware. Cable and power on server. Connect to the service processor and determine network settings. Configure the optional preinstalled Solaris OS.	*Server Installation Guide*	821-1348
Install supported operating systems. Reinstall Solaris, or install Linux or Windows Server.	*Installation Guide for Oracle Solaris OS*	821-1347
	Installation Guide for Windows OS	821-1346
	Installation Guide for Linux OS	821-1367
	Installation Guide for Oracle VM	821-1683
	Sun Installation Assistant 2.3 through 2.4 User's Guide for x64 Servers	821-0694
Install a supported version of virtualization software	*Installation Guide for ESX*	821-1369
Manage server accounts, monitor alerts, set remote access and redirection, and view component status and event logs.	*Sun Integrated Lights Out Manager 3.0 Getting Started Guide*	820-5523
	Sun Integrated Lights Out Manager (ILOM) 3.0 Supplement for Sun Fire X2270 M2 Server	821-1611
Customize BIOS settings and RAID settings. Remove and replace hardware components. Troubleshoot and isolate server problems. Review system specifications and hardware reference material.	*Server Service Manual*	821-1345
Diagnose system issues.	*Systems Diagnostics Guide*	821-1349

You can find the most up-to-date versions of all the Oracle's Sun Fire X2270 M2 Server documents online by selecting the server from the product list at:

http://docs.sun.com/app/docs/prod/server.x64#hic

Translated versions of the documentation for you server might be available. Go to the http://docs.sun.com, select your language, and navigate to your server's document collection.

Locating the Server Serial Number

The serial number is located on the front of your sever (see FIGURE 2). You can also use the ILOM web interface or the ILOM command-line interface to retrieve the serial number (for more information, see the Installation Guide, Service Manual, or ILOM documentation for your server).

Hardware Warranty and Software Service Plan

- For information on hardware warranty, got to:

  http://www.sun.com/service/warranty/index.jsp

- For information on a software service plan, go to:

  http://www.sun.com/service/serviceplanssoftware/