

# Sun Fire X4800 Server Getting Started Guide

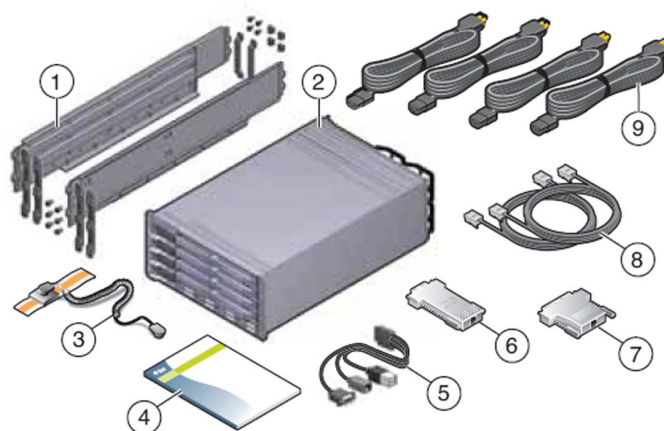
This guide describes the minimum steps you must perform to power on and boot your Oracle Sun Fire X4800 server for the first time.

Detailed installation information can be found in the *Sun Fire X4800 Installation Guide*, which is available at:

<http://docs.sun.com/app/docs/prod/sf.x4800>

Refer to the section Documentation for this Product at the end of this document for a list of documentation for this system.

## Package Contents (not to scale)



**Figure Legend**

- |   |   |
|---|---|
| 1 | Rack mounting kit and shipping bracket kit  |
| 2 | Server                                      |
| 3 | Antistatic wrist strap                      |
| 4 | Documentation                               |
| 5 | Multiport cable                             |
| 6 | RJ-45 to DB-9 crossover adapter (540-2345)  |
| 7 | RJ-45 to DB-25 crossover adapter (540-3456) |
| 8 | Two Ethernet cables (540-7890)              |
| 9 | Power cords                                 |

The rack mounting kit and the shipping brackets are shipped in the same box, although they are used at different times for different reasons. Use the rack mounting kit to mount your server in a rack. Use the shipping bracket kit to reinforce your server if you are going to ship it in a rack.

See the *Sun Fire X4800 Installation Guide* for details.

## Documentation and Media Kit

The Documentation and Media Kit is an orderable option for your system. It contains installation documentation, the Tools and Drivers CD/DVD, Sun Installation Assistant CD/DVD, and the SunVTS CD/DVD. You can order the Documentation and Media Kit at any time, using the following marketing part number:

X8514A - Sun Fire X4800 MEDDOCKIT

You also can download the documentation and software that are included in the Documentation and Media Kit from these sites:

- For documentation: <http://docs.sun.com/app/docs/prod/sf.x4800>
- For software: <http://www.oracle.com/goto/x4800>

## Issues and Changes

The *Sun Fire X4800 Product Notes* provides information about issues and known workarounds. To configure options or to add hardware to your server see the *Sun Fire X4800 Service Manual* or the service label.

## Safety and Compliance Information

Before performing an installation, refer to the following documents for safety information regarding the Sun Fire X4800:

- *Important Safety Information for Sun Hardware Systems* – Printed document included in the ship kit.
- *Sun Fire X4800 Safety and Compliance Manual* – Available online at the Sun documentation web site.

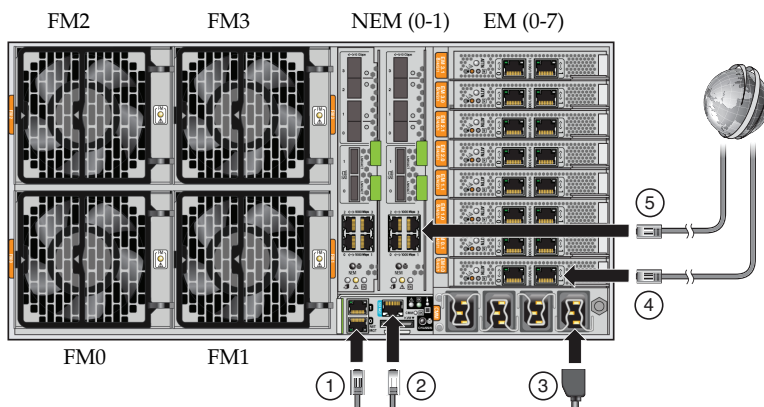
## Install Optional Components

Refer to the *Sun Fire X4800 Service Manual* for instructions to install optional components.

## Mount the System In a Rack

For rackmounting instructions, refer to the instructions included with the rail kit and the online *Sun Fire X4800 Installation Guide*.

## Connect the Cables



**Figure Legend**

- 1 NET MGT ports
- 2 SER MGT port through multiport cable
- 3 AC Inlets
- 4 PCIe Express Modules (EMs)
- 5 Network Expansion Modules (NEMs)

1. **(Suggested) Connect an Ethernet cable between the NET MGT port and the network to which connections to the SP will be made. This should be a management network, not a data network.**

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.

2. **Connect an RJ-45 cable between the server's SER MGT port and a terminal device.**

This connection provides your initial communication with the service processor (SP). The device must be set up to communicate using 9600 baud, 8 bit, no parity, 1 stop bit. A null modem configuration is needed, meaning the transmit and receive signals are reversed (crossed over) for DTE-to-DTE communications. You can use the supplied RJ-45 crossover adapters with a standard RJ-45 cable to achieve the null modem configuration.

3. **Connect the power cords to the power supplies and to separate power sources.**

To provide redundancy, connect the four power supply cables to *two separate branch circuits*. Connect two power cords to one branch circuit, and connect the other two to another branch circuit.

When power is applied, the SP initializes, the power supply LEDs illuminate, and the green power/OK LED blinks.

After a few minutes, the SP login prompt appears on the terminal device. Note that the host is not initialized or powered on yet.

The PCIe express modules and network expansion modules (4 and 5) are used to communicate with the data network. For more information on connectivity options, refer to the *Sun Fire X4800 Installation Guide* or the *Oracle Integrated Lights Out Management (ILOM) 3.0 Supplement for the Sun Fire X4800 Server*.

## Connect to ILOM and Configure SP IP Address

There are two methods that can be used to connect to the ILOM:

- Connect to the SP using a serial connection (SER MGT port)
- Connect to the SP using the Ethernet connection (NET MGT port) using DHCP or a static IP address if one has been assigned.

After connecting to the SP using a serial connection, you can view the SP's DHCP address or configure the SP to use a static IP address (DHCP is the default). Then you can use the NET MGT port to access the SP using its IP address.

Refer to the *Oracle Integrated Lights Out Manager (ILOM) Supplement for the Sun Fire X4800 Server* and the Oracle Integrated Lights Out Manager (ILOM) 3.0 Documentation Collection (formerly called the Sun Integrated Lights Out Manager 3.0 Documentation Collection) for instructions for using ILOM to configure and manage the Sun Fire X4800 server.

## Connect to ILOM Using a Serial Connection

1. **Press Enter on the terminal device to create a connection between the terminal device and the ILOM SP.**
2. **Log in to ILOM.**

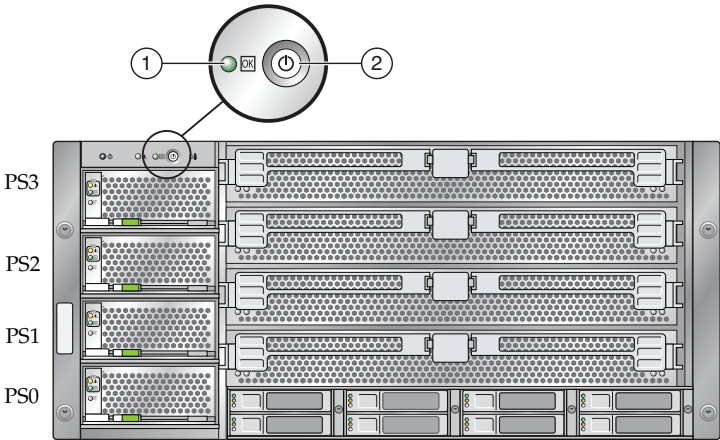
The default user name is `root`; the default password is `changeme`.
3. **To start the serial console, use the command `start /SP/console`.**

# Power On the System



**Caution** – Do not operate the server without all fans, components or component fillers installed. Severe damage to server components can occur if it is operated without adequate cooling mechanisms.

1. Verify that the power cords have been connected and that standby power is on.



**Figure Legend**

|   |              |
|---|--------------|
| 1 | Power/OK LED |
| 2 | Power Button |

CMOD3

CMOD2 In standby power mode, the Power/OK LED on the front panel flashes.

CMOD1 At this point, standby power is supplied only to the service processor and power supply fans. Do not press the power button until you are ready to install a platform operating system.

CMOD0

HDD 0 - 7

2. Press and release the recessed Power button on the front panel.

When main power is applied to the full server, the Power/OK LED next to the Power button lights and remains lit.

**Note** – The first time the server powers on, the power-on self-test (POST) can take several minutes to complete.

3. Continue with initial software setup tasks, as described in the *Sun Fire X4800 Installation Guide*.

## Update Firmware

Oracle highly recommends that you use the Sun Installation Assistant (SIA) to upgrade system BIOS and Sun Integrated Lights Out Manager (ILOM) firmware. SIA is easy to use, and is 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>

To upgrade system BIOS and ILOM firmware without using SIA, refer to the documentation for the version of ILOM supported for your server at:

<http://docs.sun.com/app/docs/prod/sf.x4800>

or 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 Operating System, Driver Software, and Firmware

After configuring the ILOM SP with network settings, you can configure a preinstalled OS or install a supported OS.

## Documentation for this Product

The following table lists the documentation in the approximate order of the tasks that you might perform when installing a new system. Review the tasks on the left, then refer to the corresponding documentation on the right. You can find the most up-to-date versions of all the documents at the Sun documentation web site:

<http://docs.sun.com/app/docs/prod/sf.x4800>.

| Operating System        | Read this document:   | For info, go to:  | For drivers and firmware go to:   | For patch information   |
|-------------------------|---|---|---|---|
| Preinstalled Solaris OS | <i>Sun Fire X4800 Server Installation Guide</i>   | <a href="http://docs.sun.com/app/docs/prod/sf.x4800">http://docs.sun.com/app/docs/prod/sf.x4800</a>   | <a href="http://www.oracle.com/goto/x4800">http://www.oracle.com/goto/x4800</a>                       | See the <i>Sun Fire X4800 Server Product Notes</i><br><a href="http://sunsolve.sun.com">http://sunsolve.sun.com</a> |
| Solaris OS              | <i>Sun Fire X4800 Installation Guide for Oracle Solaris Operating System</i>  | <a href="http://docs.sun.com/app/docs/prod/sf.x4800">http://docs.sun.com/app/docs/prod/sf.x4800</a>   |   |   |
| Windows                 | <ul style="list-style-type: none"><li>• <b>Windows or Linux:</b> Assisted install: <i>Sun Installation Assistant 2.3 through 2.4 User's Guide for x64 Servers</i></li></ul>   | <a href="http://www.sun.com/systemmanagement/sia.jsp">http://www.sun.com/systemmanagement/sia.jsp</a> | Use SIA for automatic driver and firmware updates   | <a href="http://update.microsoft.com/">http://update.microsoft.com/</a>   |
| Linux                   | <ul style="list-style-type: none"><li>• <b>Windows:</b> <i>Sun Fire X4800 Server Installation Guide for Windows Operating Systems</i></li><li>• <b>Linux:</b> <i>Sun Fire X4800 Server Installation Guide for Linux Operating Systems</i></li></ul> | <a href="http://www.oracle.com/goto/x4800">http://www.oracle.com/goto/x4800</a>                       | <a href="http://www.sun.com/systemmanagement/sia.jsp">http://www.sun.com/systemmanagement/sia.jsp</a> | SUSE: <a href="http://download.novell.com/index.jsp">http://download.novell.com/index.jsp</a>                       |

For translated versions of the documentation, go to the <http://docs.sun.com> web site, and then select your language to get the documentation set in your language.

## Power Off the Server

To power off the server from main power mode, use one of the following two methods:

- Graceful shutdown — Press and release the Power button on the front panel. This action causes the Advanced Configuration and Power Interface (ACPI) enabled operating systems to perform an orderly shutdown of the operating system.
- Emergency shutdown — Press and hold the Power button for four seconds to force main power off and to enter standby power mode.

## Hardware Warranty and Software Service Plan

For hardware warranty information, see:

<http://www.oracle.com/us/support/library/oracle-hardware-warranty-069192.pdf>

For information on a service plan, see:

<http://www.oracle.com/us/support/index.html>

If you need service for your system, you might be asked for your hardware serial number. To find the serial number of your Oracle Sun Fire X4800 server, use the ILOM command `get /SYS`, or see the instructions in your Installation Guide or Service Manual.

<http://docs.sun.com/app/docs/prod/sf.x4800>

## Contact Information

| Topic                                | URL  |
|--------------------------------------|--|
| Technical support                    | <a href="http://www.oracle.com/us/support/index.html">http://www.oracle.com/us/support/index.html</a>  |
| Submitting comments on this document | <a href="http://www.sun.com/hwdocs/feedback">http://www.sun.com/hwdocs/feedback</a><br>Please include the title and part number of your document with your feedback:<br><i>Sun Fire X4800 Server Getting Started Guide</i> , part number 821-0798-11 |
| Driver and firmware updates          | <a href="http://www.oracle.com/goto/x4800">http://www.oracle.com/goto/x4800</a>  |

## Tasks and Documentation

| Task   | Document Type  | Part Number |
|--|--|-------------|
| Review the safety information.   | Sun Fire X4800 Server Safety and Compliance Guide  | 821-0287    |
|  | Important Safety Information for Sun Hardware Systems                                    | 816-7190    |
| Review any known issues and workarounds.   | Sun Fire X4800 Server Product Notes  | 821-0281    |
| Cable and power on the server.   | Sun Fire X4800 Server Installation Guide   | 821-0285    |
| Connect to the service processor and determine the network settings.   |  |             |
| Configure the preinstalled Solaris OS.   |  |             |
| Manage server accounts, monitor alerts, set remote access and redirection, and view component status and event logs. | Oracle Integrated Lights Out Manager (ILOM) 3.0 Supplement for the Sun Fire X4800 Server | 821-0284    |
| Customize BIOS settings and RAID settings.   | Sun Fire X4800 Server Service Manual   | 821-0282    |
| Remove and replace hardware components.  |  |             |
| Troubleshoot and isolate server problems.  |  |             |

