

# Sun Server X2-8 (formerly Sun Fire X4800 M2)

## Getting Started Guide

This guide describes the minimum steps you must perform to power on and boot your Oracle Sun Server X2-8 for the first time.

Detailed installation information can be found in the *Sun Server X2-8 Installation Guide*, which is available at:

<http://www.oracle.com/pls/topic/lookup?ctx=SunServerX2-8>

See the section “[Documentation and Media Kit](#)” in this document for more information about product documentation.

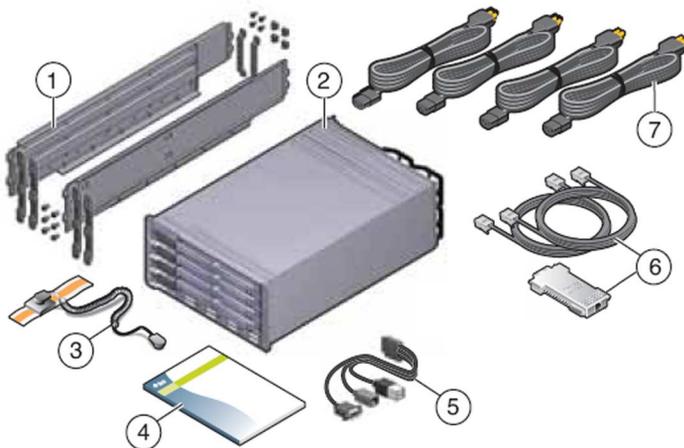
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**Note** – The Sun Server X2-8 was formerly named the Sun Fire X4800 M2 server. This former name might still appear in the product. The name change does not indicate any change in system features or functionality.

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## Contents of the Ship Kit

Oracle’s Sun Server X2-8 is shipped with safety documentation and the components that you ordered for your configuration. Optional components or rack installation equipment might be shipped separately.



**Figure Legend**

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- 1 Rackmounting kit and shipping bracket kit
  - 2 Server
  - 3 Antistatic wrist strap
  - 4 Safety documentation
  - 5 Multiport cable
  - 6 RJ-45 to DB-9 crossover adapter (540-2345)
  - 7 Power cables
-

## Documentation and Media Kit

The Documentation and Media Kit is an orderable option for your system. This kit contains one or more DVDs with installation and legal documentation, tools and drivers for your system, the Oracle Hardware Installation Assistant software, and the Oracle VTS Bootable Diagnostics software. You can order the Documentation and Media Kit DVDs at any time by going to the Oracle eDelivery site <http://edelivery.oracle.com>.

You also can download the entire documentation library and access software for your server from these sites:

- For documentation, go to <http://www.oracle.com/pls/topic/lookup?ctx=SunServerX2-8>
- For software go to <http://support.oracle.com>

## Safety and Compliance Information

Before performing an installation, refer to the following documents for safety information regarding the Sun Server X2-8:

- *Important Safety Information for Sun Hardware Systems* – Printed document included in the ship kit.
- *Sun Fire X4800/Sun Server X2-8 Safety and Compliance Guide* – Available online at the Sun documentation web site.

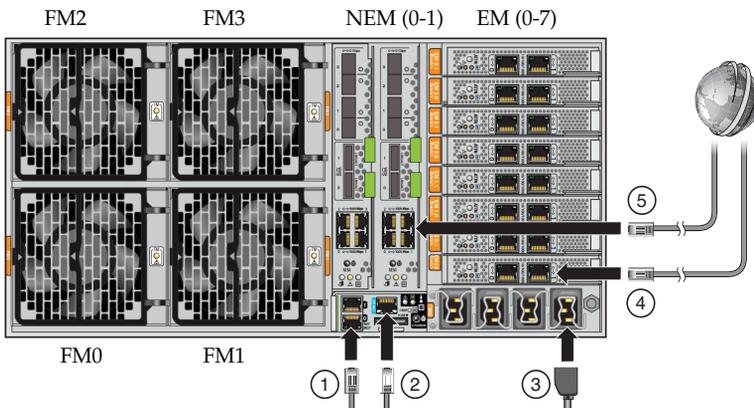
## ▼ Install Optional Components

Before installing the server into the rack, you must first install any optional components that you ordered with the server, and that were not factory installed. Refer to the *Sun Server X2-8 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 Server X2-8 Installation Guide*.

## ▼ Connect the Cables



**Figure Legend**

- 1 NET MGT ports
- 2 SER MGT port
- 3 AC inlets
- 4 PCIe Express Modules
- 5 Network Express Modules (NEMs)

- 
1. **(Suggested) Connect an Ethernet cable between the NET MGT port and the network to which connections to the service processor (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.

The PCIe EMs and network expansion modules (4 and 5) are used to communicate with the data network. For more information about connectivity options, refer to the *Sun Server X2-8 Installation Guide* or the *Oracle Integrated Lights Out Management (ILOM) 3.0 Supplement for the Sun Server X2-8*.

## ▼ Connect the Power Cords

1. **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.

## Connect to Oracle ILOM

You can use the Oracle Integrated Lights Out Manager (ILOM) to start, boot, and manage the server. There are two methods you can use to connect to the ILOM:

- Connect to the SP using a serial connection (SER MGT port) using the method provided in the following section.
- 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 Server X2-8* and the Oracle Integrated Lights Out Manager (ILOM) 3.0 Documentation Library (formerly called the Sun Integrated Lights Out Manager 3.0 Documentation Collection) for instructions for using Oracle ILOM to configure and manage the Sun Server X2-8.

## ▼ Connect to Oracle ILOM Using a Serial Connection

1. **Connect a serial cable to the serial connector on the multiport cable.**
2. **To create a connection between the terminal device and Oracle ILOM, press Enter on the terminal device.**

### 3. Log in to Oracle ILOM.

The default user name is `root`; the default password is `changeme`.

### 4. To start the serial console, use the command `start /SP/console`.

## ▼ Apply Main Power to the Server



**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.

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

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.

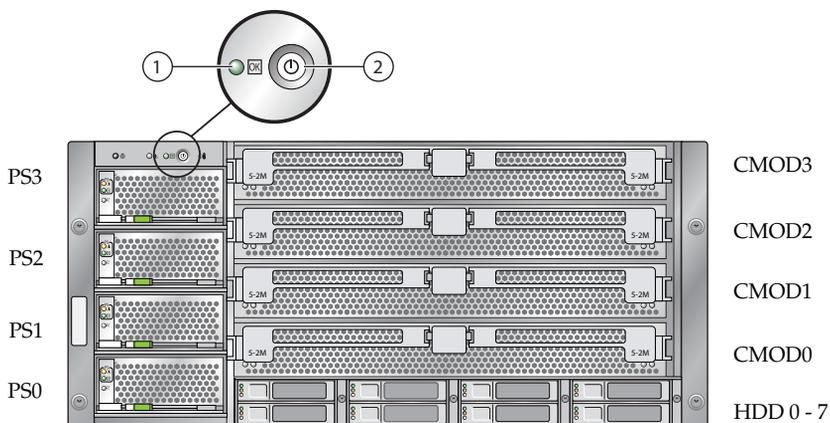


Figure Legend

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

### 2. Press and release the recessed Power button in the upper left-hand corner of 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 finish.

### 3. Continue with initial software setup tasks, as described in the *Sun Server X2-8 Installation Guide*.

## ▼ Update Firmware

Oracle recommends that you use the Oracle Hardware Installation Assistant to upgrade system BIOS and Sun Integrated Lights Out Manager (ILOM) firmware. It is easy to use, and is available in the Documentation and Media Kit, or online at:

<http://support.oracle.com>

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For more information, refer to the documentation:

<http://www.oracle.com/pls/topic/lookup?ctx=hia&id=homepage>

For information about upgrading system BIOS and ILOM firmware without using Oracle Hardware Installation Assistant, refer to the ILOM documentation at <http://www.oracle.com/technetwork/documentation/sys-mgmt-networking-190072.html#ilom>.

## ▼ Set Up the Platform Operating System and Driver Software

You can configure the preinstalled operating system (OS), or install a supported OS for your server. It is recommended that you use the Oracle Hardware Installation Assistant to update firmware (regardless of OS) and to install a Linux or Windows OS. Refer to the OS installation guide listed in “[Documentation for This Product](#)” for instructions on installing each operating system. If necessary, obtain drivers and patches using the following procedure.

### ▼ Get Operating System Drivers and Patches

1. Go to <http://support.oracle.com>.
2. Sign in to My Oracle Support.
3. At the top of the page, click the Patches and Updates tab.
4. In the Patches Search box, select Product or Family (Advanced Search).
5. In the Product? Is field, type a full or partial product name, for example Sun Server X2-8, until a list of matches appears, then select the product of interest.
6. In the Release? Is pull down list, click the Down arrow.
7. In the window that appears, click the triangle (>) by the product folder icon to display the choices, then select the release of interest.
8. In the Patches Search box, click Search.  
A list of product downloads (listed as patches) appears.
9. Select the patch name of interest, for example Patch 12345678 for the Sun Server X2-8 SW 1.0 release.
10. In the right-side pane that appears, click Download.

## Service and Technical Support

If you need to service your system, you might be asked for your hardware serial number. To find the serial number of your system, use the Oracle ILOM command `show /SYS`, or refer to the *Sun Server X2-8 Installation Guide* for information about where to find the serial number label on your system.

For service and technical support, go to:

<http://www.oracle.com/us/corporate/contact/global-070511.html>

## 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 Oracle documentation web site:

<http://www.oracle.com/pls/topic/lookup?ctx=SunServerX2-8>

<b>Task</b>	<b>Document</b>
Review the safety information.	<i>Sun Fire X4800/Sun Server X2-8 Safety and Compliance Guide</i> <i>Important Safety Information for Sun Hardware Systems</i>
Review any known issues and workarounds.	<i>Sun Server X2-8 Product Notes</i>
Install the rack hardware. Cable and power on the server. Connect to the service processor and determine the network settings. Configure the preinstalled OS.	<i>Sun Server X2-8 Installation Guide</i>
Install and configure the Oracle Solaris, Linux, Windows OS or install virtual machine software such as Oracle VM or VMware.	<i>Sun Server X2-8 Solaris OS Installation Guide</i> <i>Sun Server X2-8 Linux OS Installation Guide</i> <i>Sun Server X2-8 Windows OS Installation Guide</i> <i>Sun Server X2-8 Oracle Virtual Machine Installation Guide</i> <i>Sun Server X2-8 Virtual Machine Installation Guide</i> <i>Oracle Hardware Assistant User's Guide</i>
Manage server accounts, monitor alerts, set remote access and redirection, and view component status and event logs.	<i>Oracle Integrated Lights Out Manager (ILOM) 3.0 Supplement for the Sun Server X2-8</i>
Customize BIOS settings and RAID settings. Remove and replace hardware components. Troubleshoot and isolate server problems.	<i>Sun Server X2-8 Service Manual</i>
Diagnose system issues.	<i>Sun Server X2-8 Diagnostics Guide</i>

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You can scan the Quick Response (QR) code with your mobile device to go to the product documentation.