

Sun Blade™ X6270 Server Module Getting Started Guide

This guide describes the minimum steps you must perform to power on and boot your server for the first time. Detailed installation information can be found in the *Sun Blade X6270 Server Module Installation Guide*, which is available at the Sun documentation web site. Refer to the section “[Documentation for This Product](#)” at the end of this guide for a list of documentation for this system.

Contents

The Sun Blade™ X6270 Server Module is shipped with safety documentation and the components that you ordered for your configuration. Optional components might be packaged and shipped separately.

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: X6270-X-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/blade.x6270>
- For software: <http://www.sun.com/servers/blades/downloads.jsp>

Safety and Compliance Information

Before performing an installation, refer to the following documents for safety information:

- *Important Information for Sun Hardware Systems* – Printed document included in the ship kit.
- *Sun Blade X6270 Server Module Safety and Compliance Guide* – Online at the Sun documentation web site.

Install Optional Components

Before installing the server into the chassis, you must first install any optional components that you ordered with the server, such as storage drives, DIMMs, REM, FEM, and so forth. Refer to the *Sun Blade X6270 Server Module Installation Guide* for the instructions on installing optional components.

Install Server Module and Verify STANDBY Power State

The system chassis should be powered on prior to installing the server module into the chassis. The server module, by default, receives STANDBY power from the powered-on system chassis after inserting the server module into the chassis. For information about powering on the system chassis, refer to the system chassis documentation. For information about powering on the server module, refer to the *Sun Blade X6270 Server Module Installation Guide*.

▼ Insert Server Module Into a Powered-On Chassis

1. Verify that the system chassis is powered on.

When the chassis is powered on, the fans are operating and the OK/Power LED illuminates a STEADY ON green light. The OK/Power LED is located on both the front and rear panels of the chassis. If the chassis is not powered on, refer to the system chassis documentation.

2. In the front of the chassis, locate and remove the filler panel from the slot where you will insert the server module. Pull the lever out and eject the filler panel.

3. Position the server module vertically so that the ejectors are on the right and extend outward.

4. Push the server module into the slot until the server module stops and is flush with the chassis.

5. To lock the server module into the chassis, do the following:

- Rotate the top ejector down until it snaps into place.
- Rotate the bottom ejector up until it snaps into place.

The ejectors are locked and STANDBY power is applied to the server module service processor (SP).

Note – The server SP can take several minutes to boot. As the server SP is booting, the OK/Power LED illuminates a SLOW blink (0.5 second on, 0.5 second off). After the server SP boots, the OK/Power LED illuminates a STANDBY blink (0.1 second on, 2.9 seconds off). The STANDBY blink state indicates that the server SP is ready to be powered on.

▼ Verify STANDBY Power State on Server Module

1. Verify that the system chassis is powered on.

A STEADY ON green light (OK/Power LED) indicates that the chassis is powered on. If the chassis is not powered on, refer to the system chassis documentation for instructions on powering on the system chassis.

2. Ensure that the OK/Power LED on the server module illuminates a STANDBY blink.

The OK/Power LED on the server module front panel illuminates a STANDBY blink (0.1 second on, 2.9 seconds off) to indicate that STANDBY power is supplied to the server module. The STANDBY blink indicates that the server module SP is active but the server module host is powered off.

Note – The OK/Power LED will be set to STANDBY blink only when there is enough chassis power for the server module to power on. If there is insufficient chassis power, the OK/Power LED will remain off until there is sufficient chassis power available. To troubleshoot, review the Integrated Lights Out Manager (ILOM) log messages to determine whether the server module has permission to power on and refer to the system chassis documentation for information about powering on components in the chassis.

3. Continue the initial software configuration tasks, as described in the following sections:

- “Connect to ILOM and Configure IP Address”
- “Apply Main Power to Server Module”
- “Update Firmware”
- “Set Up Platform Operating System and Driver Software”

When STANDBY power is supplied to the server module SP, you can connect to ILOM and configure an IP address. Main power to the server module host must be applied prior to installing an operating system.

Connect to ILOM and Configure IP Address

There are three methods you can use to connect the server module SP to the Integrated Lights Out Manager (ILOM) and to configure an IP address:

- Connect to ILOM using a serial connection
- Connect to ILOM using an Ethernet connection (DHCP)
- Connect to ILOM using an Ethernet connection (static IP address)

For information about managing Sun systems using ILOM, go to: <http://www.sun.com/systemmanagement/index.jsp>.

Refer to the *Sun Blade X6270 Server Module Installation Guide* and the *Sun Integrated Lights Out Manager 2.0 User's Guide* or the *Sun Integrated Lights Out Manager 3.0 Documentation Collection* for instructions on using ILOM to configure and manage the server module.

▼ Apply Main Power to Server Module

1. Verify that the OK/Power LED on the front panel of the server module is in a STANDBY blink state.

In STANDBY blink state, the OK/Power LED on the front panel of the server module blinks (0.1 second on, 2.9 seconds off).

2. Use a non-metallic pointed object to press and release the recessed Power button on the server module front panel.

The OK/Power LED on the server module front panel illuminates a STEADY ON green light. The STEADY ON LED state indicates that the server module SP and host are both powered on.

Update Firmware

Sun *highly* recommends that you use the **Sun Installation Assistant (SIA)** to easily install updated firmware, a supported Linux or Windows operating system, and the latest hardware drivers. SIA is available in the Documentation and Media Kit and online at <http://www.sun.com/systemmanagement/sia.jsp>. Also refer to the *Sun Installation Assistant for Windows and Linux User's Guide* (820-3357) at <http://docs.sun.com/app/docs/prod/install.x64svr#hic>.

To update ILOM firmware and system BIOS without using SIA, refer to the *Sun Integrated Lights Out Manager 2.0 User's Guide* at <http://docs.sun.com/app/docs/prod/int.lights.mgr20#hic> or the *Sun Integrated Lights Out Manager 3.0 Documentation Collection* at <http://docs.sun.com/app/docs/prod/int.lights.mgr30#hic>.

All firmware and drivers are located on the Tools and Drivers CD/DVD, which is part of the Documentation and Media Kit. You also can download the software on the Tools and Drivers CD/DVD from the Sun software download sites (see links in the following table).

Set Up Platform Operating System and Driver Software

After connecting to the ILOM SP and configuring an IP address, you can configure a preinstalled operating system (OS) or install a supported Solaris, Linux, VMware, or Windows operating system and drivers.

The following table provides additional references for installing an operating system, system device drivers, firmware, and patches.

Operating system	Read these document(s):	For installation information, go to:	For latest software releases (tools, drivers, firmware, SIA), go to:	For patch information, go to:
Preinstalled Solaris OS	<i>Sun Blade X6270 Server Module Installation Guide</i>	http://www.sun.com/software/preinstall/	http://www.sun.com/servers/blades/downloads.jsp For Linux and Windows: Use SIA for automatic firmware update and driver installation	<ul style="list-style-type: none">• See the <i>Sun Blade X6270 Server Module Product Notes</i>
Solaris OS	<i>Sun Blade X6270 Server Module Linux, VMware, and Solaris OS Installation Guide</i>	http://www.sun.com/software/solaris/		<ul style="list-style-type: none">• http://sunsolve.sun.com
OpenSolaris		http://www.vmware.com/		http://www.vmware.com/download/
VMware (ESX)				
Linux	<ul style="list-style-type: none">• <i>Sun Blade X6270 Server Module Linux, VMware, and Solaris OS Installation Guide</i>• For Linux and Windows: <i>Sun Installation Assistant for Windows and Linux User's Guide</i>	<ul style="list-style-type: none">• Redhat: http://www.redhat.com• SUSE: http://www.novell.com/• http://www.sun.com/servers/blades/os.jsp• http://www.sun.com/systemmanagement/sia.jsp		<ul style="list-style-type: none">• Redhat: https://www.redhat.com/apps/download/• SUSE: http://download.novell.com/index.jsp• http://sunsolve.sun.com
Windows	<i>Sun Blade X6270 Server Module Windows OS Installation Guide</i>	http://technet.microsoft.com/en-us/windowsserver/2008/default.aspx	http://update.microsoft.com/	

Power Off Server Module

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

- **Graceful shutdown** – Use a non-metallic pointed object to press and release the Power button on the front panel of the server module. 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. When the main power is off, the blue (Ready to Remove) LED on the front panel will be illuminated, indicating that the server module is ready to be removed.

▼ Register the System

1. Locate the serial number for your system on the EZ label or the Customer Information sheet that came with the system.
2. Go to the following web site to register your system:

<http://www.sun.com/service/warranty/index.xml#reg>

Documentation for This Product

The table that follows lists the documentation for the server module and the approximate order of the tasks that you might perform when installing a new server. 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/blade.x6270>

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

Task	Document Type	Part Number
Review safety information.	Safety and Compliance Guide	820-6551
	Important Safety Information for Sun Hardware Systems	816-7190
Review known issues and workarounds.	Product Notes	820-6179
Install, power on, and configure the preinstalled OS.	Installation Guide	820-6175
Manage server components using ILOM.	Sun ILOM 2.0 Documentation: http://docs.sun.com/app/docs/prod/int.lights.mgr20#hic	multiple documents
	Sun ILOM 3.0 Documentation: http://docs.sun.com/app/docs/prod/int.lights.mgr30#hic	multiple documents
Configure and manage RAID arrays.	x64 Servers Utilities Reference Manual	820-1120
Install operating systems.	Linux, VMware, and Solaris Operating Systems Installation Guide	820-6176
	Windows Operating System Installation Guide	820-6177
Power on system, configure BIOS settings, service hardware components, and run diagnostic tools.	Service Manual	820-6178

Third-Party Web Sites

Sun is not responsible for the availability of third-party web sites mentioned in this document. Sun does not endorse and is not responsible or liable for any content, advertising, products, or other materials that are available on or through such sites or resources. Sun will not be responsible or liable for any actual or alleged damage or loss caused by or in connection with the use of or reliance on any such content, goods, or services that are available on or through such sites or resources.

Sun Contact Information

Topic	URL
Technical support	http://www.sun.com/service/contacting
Submitting comments on this document	http://www.sun.com/hwdocs/feedback Please include the title and part number of your document with your feedback: <i>Sun Blade X6270 Server Module Getting Started Guide</i> , part number 820-6181-11
Driver and firmware updates	http://www.sun.com/servers/blades/downloads.jsp

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