



# INSTALLING MICROSOFT WINDOWS SERVER 2008 ON SUN X64 SERVERS

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## Installing Microsoft Windows Server 2008 on Sun x64 Servers

Microsoft's next generation Windows Server operating system — Microsoft Windows Server 2008 — is scheduled for release in early 2008<sup>1</sup>. Many organizations are currently running tests on pre-release versions of the software. This Sun BluePrints™ article details the steps needed to install pre-release versions of Windows Server 2008 on Sun Fire™ and Sun Blade™ servers. Note that pre-release versions of the software should not be deployed in production environments.

### Platform Configuration

Table 1 identifies the platform-specific software required for Sun Fire servers and Sun Blade server modules, indicates whether system BIOS modifications are needed, and details whether mass storage device drivers are available in the operating system for the platform. The software versions listed are current as of publication date. Readers can check for more recent versions, if desired.

Table 1. Configuration information for specified platforms

Sun Platform	Sun Platform Specific Software Version	Need to Modify BIOS Settings	Mass Storage Drivers in Windows Server 2008
Sun Fire X4100 Server	1.4	No	Yes
Sun Fire X4200 Server	1.4	No	Yes
Sun Fire X4100 M2 Server	1.2	Yes	Yes
Sun Fire X4200 M2 Server	1.2	Yes	Yes
Sun Fire X4500 Server	1.3	No	No
Sun Fire X4600 Server	1.2	Yes	Yes
Sun Fire X4600 M2 Server	1.3	Yes	Yes
Sun Blade X6220 Server Module	1.0	Yes	Yes

### Installation Steps

The following sections detail the installation steps for installing Windows Server 2008 on the Sun Fire servers and Sun Blade server modules listed in Table 1. The installation steps typically include the following sets of tasks:

- Download the Sun platform-specific software from the Sun Download Web site
- Upgrade the system BIOS and firmware
- Modify system BIOS settings
- Install the Windows Server 2008 software
- Update device drivers on the installed system

1. See <http://microsoft.com/windowsserver2008/default.aspx> for release information.

More information on installing the Windows Server 2008 software can be found on the Microsoft TechNet Web site located at <http://microsoft.technet.com>

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**Note** – Microsoft Windows Server 2008 is not supported by Sun.

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## Sun Fire X4100 and X4200 Servers

The following steps describe the process for installing the Windows Server 2008 software on Sun Fire X4100 and Sun Fire X4200 servers.

1. Download the latest Sun Fire X4100 and X4200 server platform-specific software from the Sun Web site at <http://sun.com/servers/entry/x4100/downloads.jsp>
2. Download the ILOM 1.1.8 and BIOS 41 Binary, Firmware Readme, LSI Firmware and BIOS Update ISO, and Windows-only Files from Resource CD components from the version 1.4 or later software release.

Download selected with Sun Download Manager Easily manage your downloads (pause, resume, restart, verify). » [Learn more](#)

Firmware Platform - Sun Fire X4100 and Sun Fire X4200 Software 1.4			
<input checked="" type="checkbox"/>			
<input checked="" type="checkbox"/>		ILOM 1.1.8 and BIOS 41 Binary, English	ilom.X4100-1.1.8.ima 14.00 MB
<input type="checkbox"/>		ILOM 1.1.8 source, English	ilom.X4100-1.1.8.gpl_src.tar.bz2 371.30 MB
<input checked="" type="checkbox"/>		Firmware Readme, English	Firmware_Readme.html 870 Bytes
<input checked="" type="checkbox"/>		LSI Firmware and BIOS Update ISO, English	FW11640_B61404.iso 251.05 MB
<input type="checkbox"/>		Firmware MD5 Checksums, English	Firmware.MD5SUM.txt 230 Bytes

Tools and Drivers Platform - Sun Fire X4100 and Sun Fire X4200 Software 1.4			
<input checked="" type="checkbox"/>			
<input type="checkbox"/>		Resource CD ISO, English	X4100_X4200_ResourceCD.iso 248.23 MB
<input type="checkbox"/>		Resource CD Readme, English	ResourceCD_Readme.html 988 Bytes
<input type="checkbox"/>		Common Files from Resource CD, English	common.zip 32.75 KB
<input type="checkbox"/>		Linux-only Files from Resource CD, English	linux.tar.bz2 46.30 MB
<input type="checkbox"/>		Solaris-only Files from Resource CD, English	solaris.tar.bz2 370.58 KB
<input checked="" type="checkbox"/>		Windows-only Files from Resource CD, English	windows.zip 178.53 MB
<input type="checkbox"/>		Resource CD MD5 Checksums, English	ResourceCD.MD5SUM.txt 307 Bytes

3. Upgrade the system BIOS and firmware. Be sure to review the software release documentation and upgrade the system BIOS, Service Processor (BMC), and LSI disk controller Firmware and BIOS. System BIOS settings do not need to be modified.
4. Install the Microsoft Windows Server 2008 software.
5. Update the device drivers on the installed system. Once the Windows Server 2008 software is installed, log on as Administrator and launch the Windows Device Manager. The Windows Device Manager displays two devices with unknown device

drivers, identified by exclamation marks in yellow triangles. These device drivers are the AMI Virtual Floppy Device and AMI Virtual CDROM USB Device.

6. Unzip the Windows-only Files from the Resource CD (windows.zip) downloaded in Step 2 into a *temporary-folder* on Windows Server 2008.
7. Upgrade the AMI Virtual Floppy Device driver using the Windows Device Manager. Upgrade the driver to either the 32-bit (i386) or 64-bit (amd64) driver located in the *temporary-folder\windows\w2k3\packages\FloppyPack\files\ami\{amd64|i386}* folder. Doing so removes the exclamation mark for the AMI Virtual Floppy Device. A Windows Server 2008 driver is not available for the AMI Virtual CDROM USB Device at this time.

### Sun Fire X4100 M2 and X4200 M2 Servers

The following steps describe the process for installing the Windows Server 2008 software on Sun Fire X4100 M2 and Sun Fire X4200 M2 servers.

1. Download the latest Sun Fire X4100 M2 and X4200 M2 server platform-specific software from the Sun Web site at <http://sun.com/servers/entry/x4100/downloads.jsp>
2. Download the ILOM 1.1.8 and BIOS 39 Binary, Firmware Readme, LSI Firmware 1.16.40 and MPTBIOS 6.14.04, and Windows-only Files from Tools and Drivers CD components from the version 1.2 or later software release.

Firmware Platform - Sun Fire X4100 M2 and Sun Fire X4200 M2 Software 1.2			
<input checked="" type="checkbox"/>			
<input checked="" type="checkbox"/>	↓	ILOM 1.1.8 and BIOS 39 Binary, English	ilom.X4100M2-1.1.8.ima 14.00 MB
<input type="checkbox"/>	↓	ILOM 1.1.8 Source, English	ilom.X4100M2-1.1.8.gpl_src.tar.bz2 371.30 MB
<input checked="" type="checkbox"/>	↓	Firmware Readme, English	Firmware_Readme.html 1004 Bytes
<input checked="" type="checkbox"/>	↓	LSI Firmware 1.16.40 and MPTBIOS 6.14.04, English	FW11640_B61404.iso 251.05 MB
<input type="checkbox"/>	↓	Firmware MD5 checksums, English	Firmware.MD5SUM.txt 234 Bytes

Tools and Drivers Platform - Sun Fire X4100 M2 and Sun Fire X4200 M2 Software 1.2			
<input checked="" type="checkbox"/>			
<input type="checkbox"/>	↓	Tools and Drivers CD version 1.2, English	X4100M2_X4200M2_Tools_And_Drivers_CD_26273a.iso 172.17 MB
<input type="checkbox"/>	↓	Tools and Drivers CD Readme, English	X4100M2_X4200M2_Tools_And_Drivers_Readme.html 1.07 KB
<input type="checkbox"/>	↓	Common Files from Tools and Drivers CD, English	common.zip 32.73 KB
<input type="checkbox"/>	↓	Linux-only Files from Tools and Drivers CD, English	linux.tar.bz2 52.23 MB
<input type="checkbox"/>	↓	Solaris-only Files from Tools and Drivers CD, English	solaris.tar.bz2 370.80 KB
<input checked="" type="checkbox"/>	↓	Windows-only Files From Tools and Drivers CD, English	windows.zip 94.83 MB
<input type="checkbox"/>	↓	Tools and Drivers MD5 checksums, English	Tools-and-Drivers.MD5SUM.txt 351 Bytes

3. Upgrade the system BIOS and firmware. Be sure to review the software release documentation and upgrade the system BIOS, Service Processor (BMC), and LSI disk controller Firmware and BIOS.
4. Modify the system BIOS settings. The High Precision Event Timer (HPET) must be enabled in the system BIOS. If the HPET BIOS parameter is disabled, Windows Server 2008 presents a blue screen during installation. To enable the High Precision Event Timer:
  - a. Restart the system and press F2 to enter the system BIOS.
  - b. Select Advanced.
  - c. Select ACPI Configuration and press Return.
  - d. Select Advanced ACPI Configuration and press Return.
  - e. Select IRQ0 Legacy Routing for HPET and press Return.
  - f. Select Enabled and press Return.
  - g. Press F10 to save the BIOS settings and reboot the system.
5. Install the Microsoft Windows Server 2008 software.
6. Update the device drivers on the installed system. Once the Windows Server 2008 software is installed, log on as Administrator and launch the Windows Device Manager. The Windows Device Manager displays two devices with unknown device drivers, identified by exclamation marks in yellow triangles. These device drivers are the AMI Virtual Floppy Device and AMI Virtual CDROM USB Device.
7. Unzip the Windows-only Files from the Resource CD (windows.zip) downloaded in Step 2 into a *temporary-folder* on Windows Server 2008.
8. Upgrade the AMI Virtual Floppy Device driver using the Windows Device Manager. Upgrade the driver to either the 32-bit (i386) or 64-bit (amd64) driver located in the *temporary-folder\windows\w2k3\packages\FloppyPack\files\ami\{amd64|i386}* folder. Doing so removes the exclamation mark for the AMI Virtual Floppy Device. A Windows Server 2008 driver is not available for the AMI Virtual CDROM USB Device at this time.

### Sun Fire X4500 Server

The following steps describe the process for installing the Windows Server 2008 software on Sun Fire X4500 servers.

1. Download the latest Sun Fire X4500 server platform-specific software from the Sun Web site at <http://sun.com/servers/x64/x4500/downloads.jsp>
2. Download the ILOM 1.1.8 and BIOS 20 Binary, ILOM 1.1.8 and BIOS 20 Readme, and Windows-only Files from Tools and Drivers CD components from the version 1.3 or later software release.

Firmware Platform - Sun Fire X4500 1.3			
<input checked="" type="checkbox"/>			
<input type="checkbox"/>	↓ ILOM 1.1.8 Source, English	ilom.X4500-1.1.8-BIOS20.gpl_src_27960n.tar.bz2	371.15 MB
<input checked="" type="checkbox"/>	↓ ILOM 1.1.8 and BIOS 20 Binary, English	ilom.X4500-1.1.8-BIOS20_27960n.ima	14.00 MB
<input checked="" type="checkbox"/>	↓ ILOM 1.1.8 and BIOS 20 Readme, English	ilom.x4500-1.1.8_Readme.html	823 Bytes
<input type="checkbox"/>	↓ Firmware MD5 Checksums, English	MD5SUM-Firmware.txt	213 Bytes

  

Tools and Drivers Platform - Sun Fire X4500 1.3			
<input checked="" type="checkbox"/>			
<input type="checkbox"/>	↓ Tools and Drivers CD Readme, English	X4500_Tools_And_Drivers_Readme.html	1.18 KB
<input type="checkbox"/>	↓ Tools and Drivers CD ISO, English	X4500_Tools_And_Drivers_CD_27960n.iso	189.04 MB
<input type="checkbox"/>	↓ Common Files from Tools and Drivers CD, English	X4500_Tools_And_Drivers_common_27960n.zip	32.96 KB
<input type="checkbox"/>	↓ Linux-only Files from Tools and Drivers CD, English	X4500_Tools_And_Drivers_linux_27960n.tar.bz2	71.59 MB
<input type="checkbox"/>	↓ Solaris-only Files from Tools and Drivers CD, English	X4500_Tools_And_Drivers_solaris_27960n.tar.bz2	55.04 KB
<input checked="" type="checkbox"/>	↓ Windows-only Files from Tools and Drivers CD, English	X4500_Tools_And_Drivers_windows_27960n.zip	111.36 MB
<input type="checkbox"/>	↓ Tools and Drivers MD5 Checksums, English	MD5SUM-SoftwareAndDocumentation.txt	455 Bytes

3. Upgrade the system BIOS and firmware. Be sure to review the software release documentation and upgrade the system BIOS and Service Processor (BMC). System BIOS settings do not need to be modified.
4. Install the Microsoft Windows Server 2008 software. The installation process requires a floppy disk containing the Marvell disk controller driver and the AMI Virtual Floppy disk driver to be created.
5. Find a Windows system with a floppy disk drive instantiated as the **A:** device.
6. Copy and unzip the Windows-only Files from the Tools and Drivers CD (*X4500\_Tools\_And\_Drivers\_windows\_27960n.zip*) to a temporary directory on the Windows system.
7. Place a blank floppy disk into the floppy disk drive.
8. Move to the *Temporary Directory\windows\w2k3\packages\FloppyPack* directory.
9. Double-click on the `mkf1oppy` command.
10. Instruct `mkf1oppy` to format the diskette and create the floppy disk.
11. Power off and unplug the Sun Fire X4500 server.
12. Open the disk drive lid and remove all disk drives except physical disk drive number 24 (the bottom lower left disk drive).
13. Attach a USB floppy disk drive to the upper rear USB port. The USB floppy disk drive must be plugged into the upper rear port of the Sun Fire X4500 server or the Windows Server 2008 installation process fails.
14. Plug a monitor into the VGA port of the Sun Fire X4500 server.

15. Plug a USB keyboard, mouse, and CDROM/DVD drive into the remaining front and rear USB ports.
16. Place the Windows Server 2008 media into the CDROM/DVD drive and boot Windows Server 2008.
17. Place the floppy disk containing the Marvell disk controller driver and the AMI Virtual Floppy disk driver into the USB floppy disk drive.
18. Click through the first nine Windows Server 2008 setup screens until the configure disk drive screen which reads *Where do you want to install Windows* is reached.
19. Follow the steps below to load the Marvell disk controller driver and the AMI Virtual Floppy disk driver into Windows Server 2008.
  - a. Click the **Load Driver** link.
  - b. Click the **Browse** button on the **Load Driver** popup menu.
  - c. Select the floppy disk drive (A:).
  - d. Select **Marvell Serial ATA Gen 2 PCI-X Adapter Driver {32bit|64bit}**.
  - e. Click the **OK** button to load the Marvell Serial ATA Gen 2 PCI-X Adapter Driver.
  - f. Repeat steps b and c.
  - g. Select **AMI Virtual Floppy Driver {32bit|64bit}**.
  - h. Click the **OK** button to load the AMI Virtual Floppy disk driver.
  - i. Click the **Next** button to continue the Windows Server 2008 installation.
20. Update the device drivers on the installed system.
21. Once the Windows Server 2008 software is installed, log on as **Administrator** and launch the Windows Device Manager. The Windows Device Manager displays two devices with unknown device drivers, identified by exclamation marks in yellow triangles. These device drivers are the AMI Virtual Floppy Device and AMI Virtual CDROM USB Device.
22. Unzip the Windows-only Files from the Resource CD (windows.zip) downloaded in Step 2 into a *temporary-folder* on Windows Server 2008.
23. Upgrade the AMI Virtual Floppy Device driver using the Windows Device Manager. Upgrade the driver to either the 32-bit (i386) or 64-bit (amd64) driver located in the *temporary-folder\windows\w2k3\packages\FloppyPack\files\ami\{amd64|i386}* folder. Doing so removes the exclamation mark for the AMI Virtual Floppy Device. A Windows Server 2008 driver is not available for the AMI Virtual CDROM USB Device at this time.

## Sun Fire X4600 Server

The following steps describe the process for installing the Windows Server 2008 software on Sun Fire X4600 servers.

1. Download the latest Sun Fire X4600 server platform-specific software from the Sun Web site at <http://sun.com/servers/x64/x4600/downloads.jsp>

2. Download the ILOM 1.1.1.1 build 16618 with BIOS 44 (Mar 2007 release), LSI Firmware and BIOS update using CD method, LSI 1064 BIOS 6.10.00B Release Notes, and System-specific drivers archive for Windows Server 2003 components from the version 1.2 or later software release.

Firmware Platform - Sun Fire X4600 Software 1.2			
<input checked="" type="checkbox"/>			
Required (These files must be downloaded for the product to work.)			
<input checked="" type="checkbox"/>		<a href="#">ILOM 1.1.1.1 build 16618 with BIOS 44 (Mar 2007 release), English</a>	ilom.X4600-1.1.1.1-BIOS44.ima 14.00 MB
<input checked="" type="checkbox"/>		<a href="#">LSI Firmware and BIOS update using CD method, English</a>	FW116_B61000B.ISO 130.36 MB
Optional (Download the following files to add more functionality or learn more about this product.)			
<input type="checkbox"/>		<a href="#">ILOM 1.1.1.1 (build 16618) source, English</a>	ilom.X4600-1.1.1.1.gpl_src.tar.bz2 371.30 MB
<input checked="" type="checkbox"/>		<a href="#">LSI 1064 BIOS 6.10.00B Release Notes, English</a>	BIOS_Release_Notes_61000.pdf 484.17 KB
<input type="checkbox"/>		<a href="#">LSI 1064 SAS Firmware 1.16.00 Release Notes, English</a>	SASFirmwareReleaseNotes01.16.00.00.pdf 373.98 KB
Windows Server 2003, SP1 Enterprise Edition/Windows Server 2003, SP1 Standard Edition Platform - Sun Fire X4600 Software 1.2			
<input checked="" type="checkbox"/>			
<input checked="" type="checkbox"/>		<a href="#">System-specific drivers archive for Windows Server 2003, English</a>	DriverPack_1_2_0.zip 235.56 KB
<input type="checkbox"/>		<a href="#">Driver update package for Windows Server, English</a>	InstallPack_1_2_0.exe 88.94 MB
<input type="checkbox"/>		<a href="#">System-specific mass-storage device drivers for Windows Server 2003, English</a>	FloppyPack_1_2_0.zip 280.44 KB
<input type="checkbox"/>		<a href="#">Optional tools for Windows Server, English</a>	OptPack_1_2_0.zip 88.17 MB

3. Upgrade the system BIOS and firmware. Be sure to review the software release documentation and upgrade the system BIOS, Service Processor (BMC), and LSI disk controller Firmware and BIOS.
4. Modify the High Precision Event Timer (HPET) and AMD PowerNow settings in the system BIOS. If these settings are not modified from the default settings, Windows Server 2008 presents a blue screen during installation. To modify these settings:
  - a. Restart the system and press F2 to enter the system BIOS.
  - b. Select **Advanced**.
  - c. Select **ACPI Configuration** and press **Return**.
  - d. Select **Advanced ACPI Configuration** and press **Return**.
  - e. Select **ACPI HPET Support** and press **Return**.
  - f. Select **Enabled** and press **Return**.
  - g. Return to the **Advanced settings** dialog.
  - h. Select **PowerNow Support** and press **Return**.
  - i. Select **Native PSS Support** and press **Return**.
  - j. Select **Disabled** and press **Return**.
  - k. Press **F10** to save the BIOS settings and reboot the system.
5. Install Microsoft Windows Server 2008.

6. Update the device drivers on the installed system. Once the Windows Server 2008 software is installed, log on as Administrator and launch the Windows Device Manager. The Windows Device Manager displays two devices with unknown device drivers, identified by exclamation marks in yellow triangles. These device drivers are the AMI Virtual Floppy Device and AMI Virtual CDROM USB Device.
7. Unzip the Windows-only Files from the Resource CD (windows.zip) downloaded in Step 2 into a *temporary-folder* on Windows Server 2008.
8. Upgrade the AMI Virtual Floppy Device driver using the Windows Device Manager. Upgrade the driver to either the 32-bit (i386) or 64-bit (amd64) driver located in the *temporary-folder\windows\w2k3\packages\FloppyPack\files\ami\{amd64|i386}* folder. Doing so removes the exclamation mark for the AMI Virtual Floppy Device. A Windows Server 2008 driver is not available for the AMI Virtual CDROM USB Device at this time.

### Sun Fire X4600 M2 Server

The following steps describe the process for installing the Windows Server 2008 software on Sun Fire X4600 M2 servers.

1. Download the latest Sun Fire X4600 M2 server platform-specific software from the Sun Web site at <http://sun.com/servers/x64/x4600/downloads.jsp>
2. Download the ILOM 2.0.2.1 and BIOS 50 Binary, Firmware Readme, LSI Firmware and BIOS Update ISO, and Windows-only Files from Tools and Drivers CD components from the version 1.3 or later software release.

Firmware Platform - Sun Fire X4600 M2 Software 1.3			
<input checked="" type="checkbox"/>			
<input checked="" type="checkbox"/>		ILOM 2.0.2.1 and BIOS 50 Binary, English	ilom.X4600M2-2.0.2.1.ima 14.00 MB
<input checked="" type="checkbox"/>		LSI Firmware and BIOS Update ISO, English	FW11640_B61404.iso 251.05 MB
<input type="checkbox"/>		Firmware MD5 Checksums, English	Firmware_30372a.MD5SUM.txt 437 Bytes
<input checked="" type="checkbox"/>		Firmware Readme, English	Firmware_Readme.html 1.03 KB

Tools and Drivers Platform - Sun Fire X4600 M2 Software 1.3			
<input checked="" type="checkbox"/>			
<input type="checkbox"/>		Tools and Drivers CD ISO, English	X4600M2_Tools_And_Drivers_CD_30371a.iso 174.12 MB
<input type="checkbox"/>		Common Files from Tools and Drivers CD, English	X4600M2_Tools_And_Drivers_common_30372a.zip 36.12 KB
<input type="checkbox"/>		Linux-only Files from Tools and Drivers CD, English	X4600M2_Tools_And_Drivers_linux_30372a.tar.bz2 55.81 MB
<input type="checkbox"/>		Solaris-only Files from Tools and Drivers CD, English	X4600M2_Tools_And_Drivers_solaris_30372a.tar.bz2 451.38 KB
<input checked="" type="checkbox"/>		Windows-only Files From Tools and Drivers CD, English	X4600M2_Tools_And_Drivers_windows_30372a.zip 92.57 MB
<input type="checkbox"/>		Tools and Drivers CD Readme, English	X4600M2_Tools_And_Drivers_Readme.html 985 Bytes
<input type="checkbox"/>		Tools and Drivers MD5 Checksums, English	X4600M2_Tools-and-Drivers_30372a.MD5SUM.txt 467 Bytes

3. Upgrade the system BIOS and firmware. Be sure to review the software release documentation and upgrade the system BIOS, Service Processor (BMC), and LSI disk controller firmware and BIOS.
4. Modify the High Precision Event Timer (HPET) and AMD PowerNow settings in the system BIOS. If these settings are not modified from the default settings, Windows Server 2008 presents a blue screen during installation. To modify these settings:
  - a. Restart the system and press F2 to enter the system BIOS.
  - b. Select **Advanced**.
  - c. Select **ACPI Configuration** and press **Return**.
  - d. Select **Advanced ACPI Configuration** and press **Return**.
  - e. Select **ACPI HPET Support** and press **Return**.
  - f. Select **Enabled** and press **Return**.
  - g. Return to the **Advanced** settings dialog.
  - h. Select **PowerNow Support** and press **Return**.
  - i. Select **Native PSS Support** and press **Return**.
  - j. Select **Disabled** and press **Return**.
  - k. Press **F10** to save the BIOS settings and reboot the system.
5. Install Microsoft Windows Server 2008.
6. Update the device drivers on the installed system. Once the Windows Server 2008 software is installed, log on as **Administrator** and launch the Windows Device Manager. The Windows Device Manager displays two devices with unknown device drivers, identified by exclamation marks in yellow triangles. These device drivers are the AMI Virtual Floppy Device and AMI Virtual CDROM USB Device.
7. Unzip the Windows-only Files from the Resource CD (windows.zip) downloaded in Step 2 into a *temporary-folder* on Windows Server 2008.
8. Upgrade the AMI Virtual Floppy Device driver using the Windows Device Manager. Upgrade the driver to either the 32-bit (i386) or 64-bit (amd64) driver located in the *temporary-folder\windows\w2k3\packages\FloppyPack\files\ami\{amd64|i386}* folder. Doing so removes the exclamation mark for the AMI Virtual Floppy Device. A Windows Server 2008 driver is not available for the AMI Virtual CDROM USB Device at this time.

## Sun Blade X6220 Server Module

The following steps describe the process for installing the Windows Server 2008 software on Sun Blade X6220 server modules.

1. Download the latest Sun Blade X6220 server module platform-specific software from the Sun Web site at <http://sun.com/servers/blades/downloads.jsp>
2. Download the ILOM 1.1.6 (April 2007 release), Tools and Drivers CD, and System Specific Drivers for Windows Server components from the version 1.0 or later software release.

All Supported Platforms Platform - Sun Blade X6220 Server Module 1.0			
<input checked="" type="checkbox"/>			
Required (These files must be downloaded for the product to work.)			
<input checked="" type="checkbox"/>		ILOM 1.1.6 (April 2007 release), English	ilom.X6220-1.1.6.ima 14.00 MB
Optional (Download the following files to add more functionality or learn more about this product.)			
<input type="checkbox"/>		ILOM 1.1.6 Source (April 2007 release), English	ilom.X6220-1.1.6.gpl_src.tar.bz2 388.87 MB
<input type="checkbox"/>		Sun Installation Assistant version 2.0.129, English	SIA-2.0.129.iso 392.60 MB
<input type="checkbox"/>		Sun Installation Assistant ReadMe, English	SIA-2.0.129.README.txt 4.96 KB
<input type="checkbox"/>		SunVTS Bootable Diagnostic CD version 2.2.2, English	sunvtsbcd-s10u3b10-VTS6.3ps1-2.2.2.iso 217.19 MB
<input checked="" type="checkbox"/>		Tools and Drivers CD, English	Sun_Blade_X6220_Tools_And_Drivers_CD.iso 164.01 MB
<input type="checkbox"/>		Tools and Drivers CD's readme, English	Sun_Blade_X6220_Tools_And_Drivers_CD_README.html 4.09 KB
<input type="checkbox"/>		MD5sum, English	MD5SUM.txt 880 Bytes
Linux x64 Platform - Sun Blade X6220 Server Module 1.0			
<input checked="" type="checkbox"/>			
<input type="checkbox"/>		Linux Drivers, English	linuxdrivers.tar.bz2 7.17 MB
<input type="checkbox"/>		IPMI Tool, English	ipmitool.tar.bz2 2.66 MB
<input type="checkbox"/>		PXE Files, English	pxefiles.tar.bz2 533.04 KB
Windows 2003 Server Platform - Sun Blade X6220 Server Module 1.0			
<input checked="" type="checkbox"/>			
<input checked="" type="checkbox"/>		System Specific Drivers for Windows Server, English	DriverPack_1_0_6.zip 1.63 MB
<input type="checkbox"/>		Driver update package for Windows Server, English	InstallPack_1_0_6.exe 72.55 MB
<input type="checkbox"/>		Optional tools for Windows Server, English	OptPack_1_0_6.zip 75.65 MB
<input type="checkbox"/>		System-specific mass-storage driver for Windows Server, English	FloppyPack_1_0_6.zip 290.23 KB

3. Upgrade the system BIOS and firmware. Be sure to review the software release documentation and upgrade the system BIOS and the Service Processor (BMC).
4. Modify the system BIOS settings. The High Precision Event Timer (HPET) must be enabled in the system BIOS. If the HPET BIOS parameter is disabled, Windows Server 2008 presents a blue screen during installation. To enable the High Precision Event Timer:
  - a. Restart the system and press F2 to enter the system BIOS.
  - b. Select Advanced.
  - c. Select ACPI Configuration and press Return.
  - d. Select Advanced ACPI Configuration and press Return.
  - e. Select IRQ0 Legacy Routing for HPET and press Return.
  - f. Select Enabled and press Return.
  - g. Press F10 to save the BIOS settings and reboot the system.
5. Install the Microsoft Windows Server 2008 software.

6. Update the device drivers on the installed system. Once the Windows Server 2008 software is installed, log on as Administrator and launch the Windows Device Manager. The Windows Device Manager displays two devices with unknown device drivers, identified by exclamation marks in yellow triangles. These device drivers are the AMI Virtual Floppy Device and AMI Virtual CDROM USB Device.
7. Unzip the Windows-only Files from the Resource CD (windows.zip) downloaded in Step 2 into a *temporary-folder* on Windows Server 2008.
8. Upgrade the AMI Virtual Floppy Device driver using the Windows Device Manager. Upgrade the driver to either the 32-bit (i386) or 64-bit (amd64) driver located in the *temporary-folder\windows\w2k3\packages\FloppyPack\files\ami\{amd64|i386}* folder. Doing so removes the exclamation mark for the AMI Virtual Floppy Device. A Windows Server 2008 driver is not available for the AMI Virtual CDROM USB Device at this time.

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