

# Sun Netra X6270 M2 Server Module

## Product Notes



Part No.: Part No.: E23444-03  
January 2012

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# General Information

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This chapter provides the following information:

- [“Supported Modular Components”](#) on page 2
- [“Identifying the Netra Chassis Models”](#) on page 4
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# Supported Modular Components

The following table lists the supported modular components for this server module.

Product Model Number and Name	Requirements
<b>NEMs</b>	
<b>NEM 7100091</b> or <b>7011713</b> – Sun Blade 6000 Virtualized 40 GbE NEM	Requires: <ul style="list-style-type: none"><li>• For 1GbE connectivity – no FEM required.</li><li>• For 10GbE and 40GbE connectivity – FEM 7100283 or 7100633.</li><li>• Software Release 1.2 with:<ul style="list-style-type: none"><li>- BIOS 8.07.2.02</li><li>- ILOM 3.0.16.11.d (r69639)</li></ul></li></ul> Refer to the NEM documentation at: <a href="http://www.oracle.com/pls/topic/lookup?ctx=E21077-01">http://www.oracle.com/pls/topic/lookup?ctx=E21077-01</a>
<b>NEM 2073A</b> – Sun Blade 6000 Ethernet Switched Network Express Module 24p 10GbE NEM	Requires: <ul style="list-style-type: none"><li>• For 10GbE network connectivity – FEM 4871A-Z, or FEM 4871A-Z-N.</li></ul> Refer to the NEM documentation at: <a href="http://www.oracle.com/pls/topic/lookup?ctx=E19285-01">http://www.oracle.com/pls/topic/lookup?ctx=E19285-01</a>
<b>NEM 4250A</b> – Sun Blade 6000 Network Express Module 10-port 1 GbE Pass-Through NEM	Provides GbE connectivity – no FEM required.
<b>RAID Expansion Modules (REMs)</b>	
<b>SG-SAS6-REM-Z</b> Sun Blade 6000 RAID 0/1 SAS2 HBA REM	For internal storage connectivity.
<b>SG-SAS6-R-REM-Z-N</b> Sun Blade 6000 RAID 5 SAS-2 HBA REM (RAID 5) (Eight-port 6 Gb/s SAS REM RAID HBA)	
<b>Fabric Expansion Modules (FEMs)</b>	
<b>X4871A-Z-N</b> Sun Dual 10GbE Fabric Expansion Module (FEM), Uses Intel 82599 Controller	Enables 10GbE network connectivity to the <b>NEM X2073A-N</b> .
<b>7100283</b> or <b>7100633</b> PCI-E Pass-Through FEM	Enables 10GbE network connectivity to the Sun Blade 6000 Virtualized 40 GbE NEM
<b>PCIe Expansion Modules (PCIe EMs)</b>	

Product Model Number and Name	Requirements
<b>X7284A-Z-N</b> Sun x4 PCIe Quad Gigabit Ethernet ExpressModule for Sun Blade Servers, Copper, RoHS-6 Compliant	
<b>X7283A-Z-N</b> Sun PCIe Dual Gigabit Ethernet MMF Express Module, RoHS-6 Compliant	
<b>SG-XPCIEFCGBE-Q8-N</b> Sun StorageTek Dual 8 Gb FC Dual 1 GbE HBA in ExpressModule Form Factor, Qlogic, X-Option, RoHS-6 Compliant	
<b>SG-XPCIEFCGBE-E8-N</b> Sun StorageTek Dual 8 Gb FC Dual 1 GbE HBA in ExpressModule Form Factor, Emulex, X-Option, RoHS-6 Compliant	Must have part number 375-4522-02 or a higher dash level.
<b>X1110A-Z-N</b> 10GbE Dual Port SFP+ Express Module	
<b>SGX-SAS6-EM-Z</b> Sun Storage 6 Gb SAS ExpressModule HBA: 8 port (Not RAID)	

For more information about the server module go to:

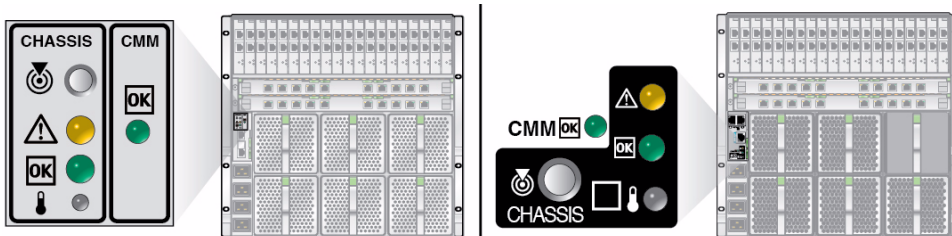
<http://www.oracle.com/us/products/servers-storage/servers/netra-carrier-grade/sun-netra-x6270-m2-392673.html>

# Identifying the Netra Chassis Models

This section replaces similar information in the service manual. There are four Netra 6000 chassis models. Two models are AC and two are DC. Some server modules and some components will only work together in a certain chassis, and that information is also provided in these product notes.

Netra 6000 Modular System Chassis Marketing Number	CMM ILOM Firmware	X6270 Server Module Support
N6000-AC 594-6438	3.x	
N6000-DC 594-6726	3.x	Yes
N6000 AC 7100418 594-6893	4.x	Yes
N6000 DC 7100417 594-6892	4.x	Yes

The most visible difference between the two chassis models is the CMM on the rear of the chassis:



- Left: CMM (501-7379) on the N6000-AC 594-6438 chassis, and N6000-DC 594-6726 chassis.
- Right: CMM (511-1531) on the N6000 DC 7100417 chassis and the N6000 AC 7100418 chassis.
- Right – CMM (7019286 or higher product part number) on the 7100417 chassis and the 7100418 chassis. (This CMM is required to support the Sun Blade 6000 Virtualized 40GbE Network Express Module)



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# Server Module Firmware

During manufacturing, Oracle installs the latest available Oracle Integrated Lights Out Manager (ILOM) and BIOS firmware on the server module. You should periodically check for firmware updates. Obtain the newest firmware from: <https://support.oracle.com>

The following table identifies the minimum supported ILOM and BIOS firmware versions.

**TABLE 1-1** Minimum Supported Firmware

Hardware Updates	Software Release	ILOM Service Processor (SP) Firmware	BIOS Firmware for NX6270 M2 Server Module
N/A	1.0.1	3.0.9.23 59192	BIOS 08.05.01.14

## Versions of Intel Microcode and Reference Code Used in the BIOS Firmware

The following table lists the versions of the Intel Microcode and Reference Code used in the BIOS firmware image for Software Release 1.0.

**TABLE 1-2** Intel Microcode and Reference Code Used in BIOS Firmware for Software Release 1.0

Intel Software	Version
Intel CPU Microcode	SRV_C_87
Intel RC	p2.70
Intel CPU Reference Code	1.06
Intel QuickPath Interconnect (QPI) Reference Code	1.85
Intel Memory Reference Code (MRC)	2.11

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## Operating Systems

The Sun Netra X6270 M2 server module supports the following operating system editions:

- Oracle Enterprise Linux 5.4 (64-bit)
- Oracle VM 2.2.1
- Oracle Solaris 10 10/09 OS and later
- Microsoft Windows Server 2008 SP2 Datacenter (64-bit) with Hyper-V
- Microsoft Windows Server 2008 SP2 Enterprise (64-bit) with Hyper-V
- Microsoft Windows Server 2008 SP2 Standard (64-bit) with Hyper-V
- Microsoft Windows Server 2008 R2 Datacenter (64-bit) with Hyper-V
- Microsoft Windows Server 2008 R2 Enterprise (64-bit) with Hyper-V
- Microsoft Windows Server 2008 R2 Standard (64-bit) with Hyper-V
- Red Hat Enterprise Linux (RHEL) 5.4 (64-bit)
- SUSE Linux Enterprise Server (SLES) 10 SP3 (64-bit)
- SUSE Linux Enterprise Server (SLES) 11 (64-bit)
- VMware ESX and ESXi 4.0 Update 1

Refer to the *Sun Netra X6270 M2 Server Module Installation Guide for Linux, Virtual Machine Software, and Oracle Solaris Operating Systems* for installation instructions for the operating systems listed above.

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**Note** – The Oracle Solaris 10 Operating System is available as a preinstalled option on a server disk drive. For configuration instructions for the preinstalled Oracle Solaris 10 Operating System, refer to the *Sun Netra X6270 M2 Server Module Installation Guide*.

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# Operating System Reference Information

The following tables provides a list of additional OS references.

OS	Related Information
Preinstalled operating system	<b>Read</b> – <i>Sun Netra X6270 M2 Server Module Installation Guide</i> <b>Documentation</b> - <a href="http://www.oracle.com/pls/topic/lookup?ctx=E19472_01&amp;id=homepage">http://www.oracle.com/pls/topic/lookup?ctx=E19472_01&amp;id=homepage</a> <b>Patches, tools, and drivers</b> – <a href="https://support.oracle.com">https://support.oracle.com</a>
Oracle Solaris OS, Oracle VM	<b>Read</b> – <i>Sun Netra X6270 M2 Server Module Installation Guide for Linux, Virtual Machine Software, and Oracle Solaris Operating Systems</i> <a href="http://download.oracle.com/docs/cd/E19472-01/index.html">http://download.oracle.com/docs/cd/E19472-01/index.html</a> <b>Additional information</b> – <a href="http://www.oracle.com/virtualization">http://www.oracle.com/virtualization</a> <b>Patches, tools, and drivers</b> – <a href="https://support.oracle.com">https://support.oracle.com</a>
VMware	<b>Read</b> – <i>Sun Netra X6270 M2 Server Module Installation Guide for Linux, Virtual Machine Software, and Oracle Solaris Operating Systems</i> <b>Additional information</b> – <a href="http://www.vmware.com">http://www.vmware.com</a> <b>Patches</b> – <a href="http://downloads.vmware.com">http://downloads.vmware.com</a> <b>Tools and drivers</b> – <a href="https://support.oracle.com">https://support.oracle.com</a>
Windows	<b>Read</b> – <i>Sun Installation Assistant 2.3 Through 2.4 User's Guide for x64 Systems</i> <a href="http://download.oracle.com/docs/cd/E19593-01/">http://download.oracle.com/docs/cd/E19593-01/</a> and <i>Sun Netra X6270 M2 Server Module Installation Guide for Windows Operating Systems</i> <a href="http://download.oracle.com/docs/cd/E19472-01/index.html">http://download.oracle.com/docs/cd/E19472-01/index.html</a> <b>Patches</b> – <a href="http://update.microsoft.com">http://update.microsoft.com</a> <b>Tools and drivers</b> – Use Oracle Hardware Installation Assistant (OHIA) for automatic firmware update and driver installation
Linux	<b>Read</b> – <i>Sun Installation Assistant 2.3 Through 2.4 User's Guide for x64 Systems</i> and <i>Sun Netra X6270 M2 Server Module Installation Guide for Linux, Virtual Machine Software, and Oracle Solaris Operating Systems</i> <b>Patches</b> – Redhat: <a href="https://www.redhat.com/apps/download">https://www.redhat.com/apps/download</a> <b>SUSE</b> : <a href="http://download.novell.com/index.jsp">http://download.novell.com/index.jsp</a> <b>Tools and drivers</b> – Use Oracle Hardware Installation Assistant (OHIA) for automatic firmware update and driver installation

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## Related Documentation

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Documentation	Link
Sun Netra X6270 M2 server module	<a href="http://www.oracle.com/pls/topic/lookup?ctx=Sun_Netra_X6270_M2">http://www.oracle.com/pls/topic/lookup?ctx=Sun_Netra_X6270_M2</a>
Netra 6000 Modular System	<a href="http://www.oracle.com/pls/topic/lookup?ctx=Netra6000">http://www.oracle.com/pls/topic/lookup?ctx=Netra6000</a>
FEMs	<a href="http://www.oracle.com/technetwork/documentation/oracle-net-sec-hw-190016.html">http://www.oracle.com/technetwork/documentation/oracle-net-sec-hw-190016.html</a>
REMs	<a href="http://www.oracle.com/technetwork/documentation/oracle-storage-networking-190061.html">http://www.oracle.com/technetwork/documentation/oracle-storage-networking-190061.html</a>
NEMs	<a href="http://www.oracle.com/technetwork/documentation/oracle-blade-sys-190001.html">http://www.oracle.com/technetwork/documentation/oracle-blade-sys-190001.html</a>
Oracle Integrated Lights Out Manager (Oracle ILOM) 3.0	<a href="http://www.oracle.com/technetwork/documentation/sys-mgmt-networking-190072.html">http://www.oracle.com/technetwork/documentation/sys-mgmt-networking-190072.html</a>
Oracle Solaris OS and other system software	<a href="http://www.oracle.com/technetwork/indexes/documentation/#sys_sw">http://www.oracle.com/technetwork/indexes/documentation/#sys_sw</a>
Oracle VTS software	<a href="http://www.oracle.com/pls/topic/lookup?ctx=OracleVTS7.0">http://www.oracle.com/pls/topic/lookup?ctx=OracleVTS7.0</a>
All Oracle products	<a href="http://www.oracle.com/documentation">http://www.oracle.com/documentation</a>

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## Feedback

Provide feedback on this documentation at:

<http://www.oracle.com/goto/docfeedback>

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# Support and Accessibility

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Description	Links
Access electronic support through My Oracle Support	<a href="http://support.oracle.com">http://support.oracle.com</a> For hearing impaired: <a href="http://www.oracle.com/accessibility/support.html">http://www.oracle.com/accessibility/support.html</a>
Learn about Oracle's commitment to accessibility	<a href="http://www.oracle.com/us/corporate/accessibility/index.html">http://www.oracle.com/us/corporate/accessibility/index.html</a>

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## Late-Breaking Information

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This chapter contains late-breaking information and issues for Oracle's Sun Netra X6270 M2 server module.

Each issue is associated with an internal change request (CR) number that is provided as a reference for service personnel. When necessary, service personnel can refer to the CR number for additional information about the issue.

The late-breaking information is described in the following categories:

- ["BIOS Known Issues" on page 12](#)
- ["ILOM Known Issues" on page 13](#)
- ["Virtual Machine Software Known Issues" on page 14](#)
- ["Oracle Solaris Known Issues" on page 16](#)
- ["Oracle, Red Hat, and SUSE Linux Known Issues" on page 17](#)
- ["Windows Known Issues" on page 18](#)

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# BIOS Known Issues

CR	Description
7029837	<p><b>Uncorrectable memory errors may result while the system is idle</b></p> <p><b>Issue:</b> Uncorrectable memory errors are reported while the system is idle. They can appear to come from 1 DIMM, or multiple DIMM's or multiple CPU's at the same time.</p> <p><b>Affected Operating Systems:</b> All Operating systems, this issue is at the BIOS level.</p> <p><b>Workaround:</b> This problem is fixed in software release 1.1. Obtain the latest software release at: <a href="https://support.oracle.com">https://support.oracle.com</a></p> <p>If you are unable to update to software release 1.1 at this time:</p> <ol style="list-style-type: none"><li>1. Clear any previous memory faults manually in ILOM. For instructions see the "<i>Oracle Integrated Lights Out Manager (ILOM) 3.0 Supplement for Sun Netra X6270 M2 Server Module</i>" at: <a href="http://www.oracle.com/pls/topic/lookup?ctx=E19472_01&amp;id=homepage">http://www.oracle.com/pls/topic/lookup?ctx=E19472_01&amp;id=homepage</a></li><li>2. Enter into BIOS Setup by selecting F2 during POST.</li><li>3. Select the "Advanced" tab.</li><li>4. Select the "CPU" menu.</li><li>5. Set the C-STATE tech feature to "Disabled".</li><li>6. Save the settings and exit the BIOS.</li></ol>



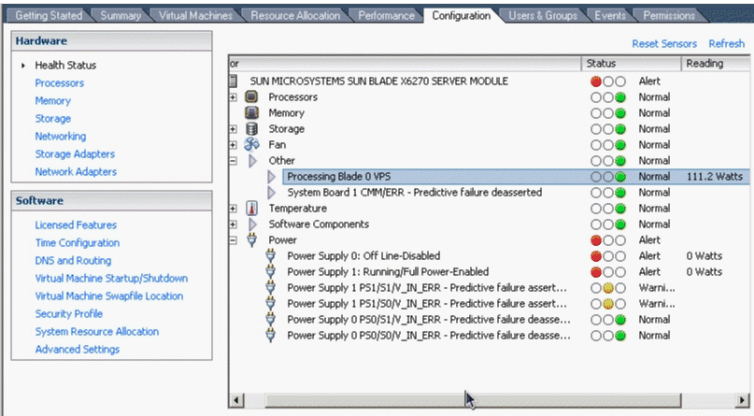
# ILOM Known Issues

CR	Description
6928567	<p data-bbox="498 387 1290 413"><b>Unable to Launch ILOM Remote Console Using JRE 1.6.0 U14, U15, or U16</b></p> <p data-bbox="498 430 558 456"><b>Issue:</b></p> <p data-bbox="498 465 1279 552">If you try to launch the ILOM Remote Console through the web using some builds of Java Runtime Environment (JRE), the system returns the error Unable to Launch the Application.</p> <p data-bbox="498 569 801 595"><b>Affected Operating Systems:</b></p> <p data-bbox="498 604 1258 630">All operating systems running ILOM 3.0.9.xx, JRE 1.6.0, U14, U15, or U16.</p> <p data-bbox="498 647 634 673"><b>Workaround:</b></p> <p data-bbox="498 682 843 708">Upgrade to JRE 1.6.0 U17 or later.</p>
6923903	<p data-bbox="498 716 1168 743"><b>SP Restore Partially Successful and Reports an Error in the Log</b></p> <p data-bbox="498 760 558 786"><b>Issue:</b></p> <p data-bbox="498 795 1296 855">If the serial console is in use, properties related to the serial console cannot be restored and you will receive messages such as the following:</p> <p data-bbox="498 864 1076 916">Config restore: Unable to restore property '/SP/serial/host/commitpending'</p> <p data-bbox="498 925 1076 977">Config restore: Unable to restore property '/SP/serial/external'</p> <p data-bbox="498 986 1296 1064">Because such properties could not be restored, this is a partial failure and, therefore, results in the above message about the partial failure. This behavior is not a defect.</p> <p data-bbox="498 1081 696 1107"><b>Affected Software:</b></p> <p data-bbox="498 1116 719 1142">Software Release 1.0.1</p> <p data-bbox="498 1159 634 1185"><b>Workaround:</b></p> <p data-bbox="498 1194 1110 1220">Log out of the serial console and try to run restore again.</p>

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# Virtual Machine Software Known Issues

CR	Description
6927196	<b>Oracle Virtual Machine Manager 2.2 Install Fails on 6-Core CPU Configurations</b>
	<b>Issue:</b> When installing Oracle VM Manager 2.2 on a Sun Netra X6270 M2 server module with 6-core CPUs, the install action might fail and exit with the message Database is not available.
	<b>Affected Hardware and Software:</b> <ul style="list-style-type: none"><li>• Oracle VM Manager 2.2</li><li>• Sun Netra X6270 M2 server module</li><li>• Software Release 1.0.1</li></ul>
	<b>Workaround:</b> To resolve this issue, see the patch and installation instructions at: <a href="http://oss.oracle.com/oraclevm/manager/patch">http://oss.oracle.com/oraclevm/manager/patch</a>

CR	Description																					
6779112	<p data-bbox="498 197 1300 249"><b>Misleading Status for Power Supplies Is Reported by VMware Health Status Screen</b></p> <p data-bbox="498 270 558 296"><b>Issue:</b></p> <p data-bbox="498 305 1286 387">The VMware Virtual Infrastructure client Health Status screen under the Power component reports the server power supplies in an Off-Line Disabled state and 0 watts, even though the power supplies are online and enabled.</p> <p data-bbox="498 406 696 432"><b>Affected Software:</b></p> <p data-bbox="498 439 765 465">VMware ESX 4.0 Update 1</p> <p data-bbox="498 484 636 510"><b>Workaround:</b></p> <p data-bbox="498 517 1282 598">To view the correct power status while in the VMware Virtual Infrastructure client Health Status screen, click on the Other component from the list of available options and view the blade <i>n</i> VPS (where <i>n</i> is the blade number).</p>  <table border="1" data-bbox="725 673 1243 973"> <thead> <tr> <th>Component</th> <th>Status</th> <th>Reading</th> </tr> </thead> <tbody> <tr> <td>Processing Blade 0 VPS</td> <td>Normal (Green)</td> <td>111.2 Watts</td> </tr> <tr> <td>Power Supply 0: Off Line-Disabled</td> <td>Alert (Red)</td> <td>0 Watts</td> </tr> <tr> <td>Power Supply 1: Running/Full Power-Enabled</td> <td>Alert (Red)</td> <td>0 Watts</td> </tr> <tr> <td>Power Supply 1 PS1/S1/V_IN_ERR - Predictive failure assert...</td> <td>Warning (Yellow)</td> <td></td> </tr> <tr> <td>Power Supply 0 PS0/S0/V_IN_ERR - Predictive failure deasse...</td> <td>Normal (Green)</td> <td></td> </tr> <tr> <td>Power Supply 0 PS0/S0/V_IN_ERR - Predictive failure deasse...</td> <td>Normal (Green)</td> <td></td> </tr> </tbody> </table>	Component	Status	Reading	Processing Blade 0 VPS	Normal (Green)	111.2 Watts	Power Supply 0: Off Line-Disabled	Alert (Red)	0 Watts	Power Supply 1: Running/Full Power-Enabled	Alert (Red)	0 Watts	Power Supply 1 PS1/S1/V_IN_ERR - Predictive failure assert...	Warning (Yellow)		Power Supply 0 PS0/S0/V_IN_ERR - Predictive failure deasse...	Normal (Green)		Power Supply 0 PS0/S0/V_IN_ERR - Predictive failure deasse...	Normal (Green)	
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Processing Blade 0 VPS	Normal (Green)	111.2 Watts																				
Power Supply 0: Off Line-Disabled	Alert (Red)	0 Watts																				
Power Supply 1: Running/Full Power-Enabled	Alert (Red)	0 Watts																				
Power Supply 1 PS1/S1/V_IN_ERR - Predictive failure assert...	Warning (Yellow)																					
Power Supply 0 PS0/S0/V_IN_ERR - Predictive failure deasse...	Normal (Green)																					
Power Supply 0 PS0/S0/V_IN_ERR - Predictive failure deasse...	Normal (Green)																					

# Oracle Solaris Known Issues

CR	Description
6925850	<b>The Solaris <code>prtconf</code> Command Does Not Report the Associated Physical Slot Number Along With the PCIe Device Slot Names</b>
	<p><b>Issue:</b></p> <p>When using the Solaris <code>prtconf</code> command to view system configuration information for some PCIe devices, the physical slot number is not reported along with the slot names.</p> <p>For example, in the configuration information shown here, the first two slot names have associated physical slots, the other slot names do not:</p> <pre>% prtconf -pv   grep slot       slot-names:  00000001.65696370.00000034       physical-slot#:  00000004       slot-names:  00000001.65696370.00000031       physical-slot#:  00000001       slot-names:  00000001.746f6c53.00000035       slot-names:  00000001.746f6c53.00000032       slot-names:  00000001.746f6c53.00000036       slot-names:  00000001.746f6c53.00000033</pre>
	<p><b>Affected Operating System and Software:</b></p> <ul style="list-style-type: none"> <li>• Oracle Solaris 10 10/09</li> <li>• Software Release 1.0.1</li> </ul>
	<p><b>Workaround:</b></p> <p>There is no workaround.</p>
6708175	<b>Hot-Insert for Certain ExpressModules Is Not Supported by Oracle Solaris OS</b>
	<p><b>Issue:</b></p> <p>When using Oracle Solaris 10 10/09, the Sun Quad Gigabit Ethernet Module (X7284A-Z) ExpressModule cannot be hot-inserted:</p>
	<p><b>Affected Operating System and Software:</b></p> <ul style="list-style-type: none"> <li>• Oracle Solaris 10 10/09</li> <li>• Software Release 1.0.1</li> </ul>
	<p><b>Workaround:</b></p> <p>Insert the ExpressModule. Reboot the blade server module so that the ExpressModules can be recognized.</p>

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# Oracle, Red Hat, and SUSE Linux Known Issues

CR	Description
6914173	<p><b>pciehp Hot-Plug Default Driver Is Not Supported by SLES10 SP3</b></p> <p><b>Issue:</b> SLES10 SP3 has disabled interrupts on the PCI Express root ports. As a result, <code>pciehp</code> hot-plug does not function properly with default driver options. This can result in USB devices being inadvertently disabled when hot-plug actions are attempted.</p> <p><b>Affected Operating System and Software:</b></p> <ul style="list-style-type: none"><li>• SUSE Linux Enterprise Server 10 SP3 (SLES10 SP3)</li><li>• Software Release 1.0.1</li></ul> <p><b>Workaround:</b> You must load the <code>pciehp</code> driver with the following parameter: <code>pciehp_poll_mode=1</code> For example: <code>modprobe pciehp pciehp_poll_mode=1</code></p>
6915768	<p><b>During a Reboot of the System, You Might See a Kernel Panic</b></p> <p><b>Issue:</b> During a warm reboot of the system, you might see an intermittent kernel panic <code>__cpufreq_governor</code>.</p> <p><b>Affected Operating Systems and Software:</b></p> <ul style="list-style-type: none"><li>• Oracle Enterprise Linux (OEL) 5.4</li><li>• Red Hat Linux (RHEL) 5.4</li><li>• Software Release 1.0</li></ul> <p><b>Workaround:</b> A patch has been issued to fix this issue. You can download the patch at: <a href="https://bugzilla.redhat.com/attachment.cgi?id=336296&amp;action=diff">https://bugzilla.redhat.com/attachment.cgi?id=336296&amp;action=diff</a></p>

# Windows Known Issues

CR	Description
6914898	<p data-bbox="416 388 1240 444"><b>Hot-Plug Re-Insertion Fails With Code 35 in Windows Server 2008 SP2 and R2 64-bit</b></p> <p data-bbox="416 461 479 486"><b>Issue:</b></p> <p data-bbox="416 496 1210 574">With Windows Server 2008 SP2 and 2008 R2, certain ExpressModules are not currently supported for hot-insertion. The following ExpressModules cannot be hot-inserted:</p> <ul data-bbox="416 585 1169 673" style="list-style-type: none"> <li>• SG-XPCIEFCGBE-8Q-Z - Sun StorageTek Dual 8Gb FC Dual GbE HBA, QLogic</li> <li>• X7284A-Z - Sun Quad GbE Express Module</li> </ul> <p data-bbox="416 690 722 715"><b>Affected Operating Systems:</b></p> <ul data-bbox="416 725 886 782" style="list-style-type: none"> <li>• Windows Server 2008 Service Pack 2, 64-bit</li> <li>• Windows Server 2008 R2</li> </ul> <p data-bbox="416 800 558 824"><b>Workaround:</b></p> <p data-bbox="416 835 1175 887">Insert the affected modules and reboot the system in order for them to be recognized.</p>
6879304	<p data-bbox="416 906 1196 961"><b>Windows Server 2008 R2 Generates System Event Log Warning Messages When Power Is Being Limited by ILOM Power Management</b></p> <p data-bbox="416 979 479 1003"><b>Issue:</b></p> <p data-bbox="416 1013 1222 1206">When power is being limited by the ILOM power management feature, the Windows Server 2008 R2 operating system will generate warning messages in the system event log informing the user that the processors are being restricted. Example event: The Speed of Processor xx in group x is being limited by system firmware. The processor has been in this reduced performance state for xxxx seconds since last report.</p> <p data-bbox="416 1223 993 1248"><b>Affected Hardware, Operating Systems, and Software:</b></p> <ul data-bbox="416 1258 948 1347" style="list-style-type: none"> <li>• All Sun servers with power management support</li> <li>• Windows Server 2008 R2</li> <li>• Software Release 1.0.1</li> </ul> <p data-bbox="416 1364 558 1388"><b>Workaround:</b></p> <p data-bbox="416 1399 1212 1426">None needed. These events are expected and are not indicative of a problem.</p>

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# Documentation Changes

## Specifications Corrections

The specifications in Chapter 1 of the installation guide are incorrect. This table shows the correct specifications with the server module mounted vertically in the chassis.

	<b>English</b>	<b>Metric</b>
<b>Height</b>	12.9 in	327.2 mm
<b>Width</b>	1.8 in	44.5 mm
<b>Depth</b>	20.1 in	511.7 mm
<b>Weight (Fully Configured)</b>	17.4 lb	7.9 kg

## Power Calculator

The Sun Netra 6000 power calculator is available at:

<http://www.oracle.com/us/products/servers-storage/sun-power-calculators/calc/netra-6000-power-calculator-519736.html>

