

Sun™ Enterprise™ 250 Server Product Notes



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Sun Enterprise 250 Server Product Notes

System Software Requirements

The Sun™ Enterprise™ 250 server requires the Solaris™ 2.6 Hardware: 5/98 operating environment. To check which version of the operating environment is installed on your Enterprise 250 server, examine the file `/etc/release`. The file should contain the text “Solaris 2.6 Hardware: 5/98” or identify a subsequent compatible Solaris release.

Note – Support for the Solaris 2.5.1 operating environment is available through a special software supplement release. For additional details, please contact your Sun™ authorized sales representative.

Remote System Control (RSC) Software

The Sun™ Remote System Control (RSC) functionality described in the *Sun Enterprise 250 Server Owner's Guide* is not yet available for the Sun Enterprise 250 server. The RSC software that provides this functionality is scheduled for release at a later date. Once released, the RSC software will be made available to all Sun Enterprise 250 customers through a special software supplement. Please note that all hardware functionality required to support RSC is already included in your Sun Enterprise 250 server. For more details, please contact your Sun authorized sales representative.

Note – RSC is not supported in the Solaris 2.5.1 operating environment.

FCC Class B Regulatory Compliance

The Sun Enterprise 250 server has been tested and found to comply with the Federal Communications Commission (FCC) limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against radio frequency interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause interference to radio or television reception.

Note – Connecting headphones to the headphone jack of the Enterprise 250 CD-ROM drive may result in radio frequency emissions that exceed Class B limits. There are several measures you can take to correct interference problems. For additional details, see the “Regulatory Compliance Statements” at the beginning of the *Sun Enterprise 250 Server Owner’s Guide*.

SPARCstorage MultiPack Units

A compatibility issue exists between the Enterprise 250 server’s embedded or expansion PCI SCSI host bus adapters (HBAs) and the use of newer SPARCstorage MultiPack (SMP) units that may contain UltraSCSI (Fast-20) capable drives. The HBAs available on Enterprise 250 servers default to use UltraSCSI operation when UltraSCSI devices are present. However, SPARCstorage MultiPack units (both 6- and 12-drive versions) do not support UltraSCSI operation. Attempting to use such a configuration can lead to reduced SCSI bus performance and potential system panic.

Workaround: Prior to using this configuration, disable the UltraSCSI mode for each controller instance to which a SMP is attached. Refer to the `pci(4)`, `glm(7D)`, and `isp(7D)` man pages for details.

Note – An alternative workaround method involving a global SCSI option change through `/etc/system` would result in loss of UltraSCSI mode on internal system disk backplanes.

This issue does not exist with SPARCstorage MultiPack 2 systems, which are UltraSCSI capable.

Power Interlock

The Enterprise 250 server features a power interlock safety mechanism. Removing the side access panel or the removable media assembly activates the system power interlock switches. This safety mechanism prevents all DC voltages (except 5V standby power) from reaching any internal component when the side panel or removable media assembly is removed and the front panel keyswitch is left in the Power-on position. Do not remove the side access panel or the removable media assembly while the system is running. Doing so will cause the system to power off abruptly.

prtdiag Utility

The `prtdiag` utility reports an incorrect value for the keyswitch position on a Sun Enterprise 250 server running the Solaris 2.6 Hardware: 5/98 operating environment. When the keyswitch is in the On position, `prtdiag -v` outputs the following:

```
"Keyswitch position is in the OFF mode."
```

Note – The diagnostic and locked keyswitch positions are detected correctly.

Workaround: Contact your Sun authorized service provider for the availability of a patch.

Rackmount Conversion Kits

Rackmount conversion kits are available for converting a Sun Enterprise 250 server from a rackmount configuration to a desktide configuration, or from a desktide configuration to a rackmount configuration. For additional details, contact your Sun authorized sales representative.

Environmental Monitoring Subsystem

The temperature thresholds at which the Sun Enterprise 250 server reports and responds to system over-temperature conditions have changed. The threshold values published in the *Sun Enterprise 250 Server Owner's Guide* are no longer valid. The new over-temperature thresholds are provided below.

Measurement Source	Temperature Threshold (degrees C)
Ambient temperature	Warning: 55 Critical: 60
CPU module temperature	Warning: 63 Critical: 68

The system indicates an over-temperature condition if the ambient temperature inside the system, or a temperature measured at a CPU module, reaches a warning threshold. Should the ambient or CPU temperature reach a critical threshold, the system is automatically shut down.

Note – The Enterprise 250 server also issues a warning if the system temperature reaches a low temperature threshold. The low temperature thresholds for ambient and CPU module temperatures are 5 and 0 degrees C, respectively. Note that there is no automatic system shutdown in response to a low temperature condition.

For additional details, see “Environmental Monitoring and Control” in Chapter 4 of the *Sun Enterprise 250 Server Owner's Guide*.

Replacing the NVRAM Module



Caution – Before removing or installing the NVRAM module on the main logic board, be sure to disconnect all four power cables from the main logic board. When the power switch is in Standby mode, DC voltage (5 Volt Standby) is still present on the main logic board. Removing or installing the NVRAM under these conditions could corrupt the information stored in the NVRAM module and adversely affect operation of the system. To avoid this problem, make sure that you disconnect all power cables from the main logic board before handling the NVRAM module.

Security Lock Block Installation

If you have difficulty installing the security lock block, it is likely that the screw holes are misaligned. This sometimes happens when the side access cover is removed and reinstalled incorrectly. To realign the screw holes, remove and reinstall the side access panel. Push the access panel against the chassis until the screw holes for the lock block are properly aligned. Then tighten the two captive screws at the rear of the chassis to secure the panel in place.

For more information, see the following sections in the *Sun Enterprise 250 Server Owner's Guide*:

- “How to Remove the Side Access Panel”
- “How to Install the Side Access Panel”
- “How to Install the Security Lock Block”

Power Supply Memory Latch Function

The Sun Enterprise 250 power supply has a memory latch function that allows the power supply to “remember” its last power on/off state in response to a power outage or removal of the AC power cord. This feature allows the power supply to resume operation automatically once power is restored. It also enables hot-swapping of power supplies.

Under some circumstances, this feature can be misdiagnosed as a power supply failure. If you remove a power supply from a system that is powered off and attempt a hot-plug installation into a system that is powered on, the power supply will remain in the Off state. This should not be interpreted as a power supply failure. To activate the power supply, simply turn the front panel keyswitch from the Power-On position to the Diagnostics position, and then back to the Power-On position. Alternatively, you may press the Power-On key on a Sun Type-5 keyboard attached to the system.

Open Issues

An online web page is available that provides additional support for any open issues that may arrive too late to be included in this document. To access this web page, enter the following URL in your web browser:

`http://sunsolve.sun.com`

If you require further information, please contact your Sun authorized service provider.