

Sun Fire™ E2900/V1280 UltraSPARC™ IV+ (1.8 GHz) CPU/Memory Board Upgrade Requirements



Caution – Failure to follow these procedures will cause your system to be unable to recognize the new CPU/Memory board.

Note – If a CPU/Memory board is sold as a field-replaceable unit (FRU), it must be used **ONLY** for replacement use. FRUs must not be used to upgrade CPU performance in systems. Such usage can violate United States export regulations.

CPU/Memory Board Rules

A CPU/Memory board might fail to function if the following rules are violated:

- The firmware on all boards (and other assemblies) in the system must be at the same level.
If different versions of boards are used in a system, the firmware level for all boards must be equal to (or greater than) the highest *MINIMUM* required by any board or assembly in the system.
- Any required firmware, and software upgrades must be installed *before* you install the new board or assembly.

Firmware and Software Requirements

The 1.8 GHz CPU/Memory boards require that the system controllers for E2900 or V1280 systems have a minimum firmware level of SC-APP 5.20.1. The CPU/Memory board software also requires Solaris™ 10 03/05 HW1 OS, Solaris 9 09/05 OS, or subsequent compatible versions. If you upgrade a system by installing one or more 1.8 GHz CPU/Memory boards, make sure that the system firmware and the Solaris Operating System meet the minimum requirements.

Checking the Firmware

Do not install a new CPU/Memory board if the firmware in the system does not meet the minimum requirements of the new board.

♦ **To determine the firmware level, type:**

```
lom> showboards -p proms
```

Refer to the system controller command reference manual for your system for information about software commands.

Upgrading the Firmware

You can read about the latest firmware and software requirements, and download any required patches at: <http://sunsolve.sun.com>

If your system requires an upgrade of firmware, software, or both, install the upgrades, and any required patches or hardware in this order:

1. **Upgrade the firmware first.**
2. **Upgrade the software.**
3. **Upgrade the power supplies to A209.**
4. **Install the CPU/Memory board(s) last.**

To upgrade the firmware on all system boards (including CPU/Memory boards and I/O assemblies), use the `flashupdate` command:

```
lom> flashupdate -f <URL> scapp rtos  
lom> flashupdate -f <URL> systemboards
```

Refer to your System Controller Command Reference Manual, for the correct syntax to use.

Hardware Requirements

Sun Fire™ E2900/V1280 systems require the following hardware upgrade to support UltraSPARC™ IV+ 1.8 GHz modules.

- Upgrade power supplies to A209s (part numbers 300-1833-01) using the Sun Fire E2900/V1280 UltraSPARC IV+ Kit.

Checking Hardware Upgrades

Determine if the hardware upgrade is already installed by using the following system controller `showfru` command to see the manufacturing record of FRU part numbers. This command is available with firmware version 5.18.1 and later.

```
lom> showfru -r manr
```

Alternately, you can find the part numbers on the device labels.

Accessing Sun Documentation

You can view, print, or purchase a broad selection of Sun documentation, including localized versions, at:
<http://www.sun.com/documentation>

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