



2-Gbyte Memory Module Guide for Sun Fire™ High-End and Midrange Systems

Sun Fire E25K/E20K Systems

Sun Fire E6900/E4900 Systems

Sun Fire 6800/4800 Systems (upgraded to UltraSPARC® IV CPU/Memory boards)

Sun Fire E2900 System

Sun Fire V1280 System (upgraded to UltraSPARC IV CPU/Memory boards)

Sun Fire V490 System

Sun Fire V890 System

DIMM Sockets

For Sun Fire E25K/E20K, E6900/E4900, E2900 systems and upgraded Sun Fire 6800/4800 and V1280 systems:

The UltraSPARC® IV CPU/Memory boards have 32 DIMM sockets. These sockets are divided into four groups with two banks (four slots each) for each CPU module. A label on the board lists a three-digit location for each slot. The first, second, and third digits indicate the corresponding CPU processor (0–3), DIMM group in a bank (0 or 1), and data output (0–3).

For Sun Fire V490 and V890 systems:

Each CPU/Memory board contains slots for 16 DIMMs organized into groups of four. DIMMs, therefore, must be added in sets of four. The system reads from, or writes to, all four DIMMs in a group simultaneously. Maximum memory available for the Sun Fire V490 is 64 Gbytes (two CPU/Memory boards fully populated with 2-Gbyte DIMMs). Maximum memory available for the Sun Fire V890 is 128 Gbytes (four CPU/Memory boards fully populated with 2-Gbyte DIMMs).

DIMM Installation Rules

For Sun Fire E25K/E20K, E6900/E4900, E2900 systems and upgraded Sun Fire 6800/4800 and V1280 systems:

- Each DIMM bank must be fully populated with the same capacity DIMM.
- Install the larger capacity DIMMs into banks before installing the smaller capacity DIMMs into banks.
- The minimum number of DIMMs you can install per CPU processor is four DIMMs or one bank.
- If the number of CPU processors on each UltraSPARC IV CPU/Memory board are the same, place DIMM banks on UltraSPARC IV CPU/Memory boards that have fewer populated DIMM banks before placing DIMMs on the UltraSPARC IV CPU/Memory boards that already have more populated DIMM banks.
- If some UltraSPARC IV CPU/Memory boards have more CPU processors than others, place DIMMs in DIMM banks on the board with the most CPU processors. There will be CPU processors without corresponding DIMMs on other boards.



Caution – 2-Gbyte SDRAM DIMMs are for use only with the UltraSPARC IV CPU/Memory boards.

For Sun Fire V490 and V890 systems:

- DIMMs must be added four-at-a-time within the same group of DIMM slots; every fourth slot belongs to the same DIMM group.
- Each group used must have four identical DIMMs installed. The four DIMMs must be from the same manufacturing vendor and must have the same capacity (for example, four 512-Mbyte DIMMs, four 1-Gbyte DIMMs, or four 2-Gbyte DIMMs).

Firmware, OS, and Hardware Minimum Requirements

Note – If your system requires both a software upgrade and a firmware upgrade, upgrade the firmware first.

Sun Fire E6900/E4900 systems and upgraded Sun Fire 6800/4800 systems, and Sun Fire E2900 system and upgraded Sun Fire V1280 system require these versions:

- Firmware level 5.17.5, 5.18.2 or subsequent compatible versions
- Solaris™ 8 OS, plus latest KU patches 117350-19 and 116970-05
- Solaris 9 OS, plus latest KU patches 118558-01 and 116557-03
- Solaris 10 Operating System

Sun Fire V490/V890 systems require:

- Firmware level 4.15.6
- Solaris 8 OS 2/04
- Solaris 9 OS 4/04
- Solaris 10 OS 3/05

Sun Fire E25K/E20K systems require:

- SMS 1.4.1 or subsequent compatible versions
- SMS 1.4.1, plus latest KU patches 118595-02 and 117371-07 or later
- Solaris 8, plus latest KU patches 117350-19 and 111335-27
- Solaris 9, plus latest KU patches 118558-01 and 117124-05
- Solaris 10 Operating System
- A196 PSU Upgrade Kit

Note – For latest patch information go to <http://sunsolve.sun.com>. Installation information and README files are included in the patch download.

Installing DIMMs

Refer to your system service manual for the removal and installation instructions.

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<http://www.sun.com/documentation>

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