



Sun Fire™ E6900/E4900 and Sun Fire 6800/4800 Systems PCI-X I/O Assembly Installation Guide

All systems:

If PCI-X I/O assemblies are to be mixed with CompactPCI I/O assemblies, install the CompactPCI I/O assemblies only in slots IB8 or IB9 for cooling purposes.

Sun Fire™ E6900 and Sun Fire 6800 systems only:

You can install PCI-X I/O assemblies in either the top or bottom I/O locations. Populate the I/O assemblies from right to left.

Note – Check with your Sun Service representative for compatibility of your existing PCI adapters in your new assembly.

Location of I/O Assemblies

| System | Slot Numbers | Slot Location |
|----------------------------------|------------------------|--|
| Sun Fire E6900 and Sun Fire 6800 | IB6, IB7, IB8, and IB9 | Rear—bottom right and left, top right and left |
| Sun Fire E4900 and Sun Fire 4800 | IB6, IB8 | Rear—bottom and top |

Firmware and OS Minimum Requirements

Note – If your system requires both a software upgrade and a firmware upgrade, upgrade the firmware first. Install new PCI-X I/O assemblies only after you have upgraded the software and firmware.

Sun Fire E6900/E4900 systems and upgraded Sun Fire 6800/4800 systems with UltraSPARC® IV require these versions:

- Firmware level 5.20 or subsequent compatible versions
- Solaris 9 9/05, Solaris 10 3/05 Operating Systems or subsequent compatible versions

Sun Fire E6900/E4900 systems and upgraded Sun Fire 6800/4800 systems/domains with only UltraSPARC® III require these versions:

- Firmware level 5.20 or subsequent compatible versions
 - Solaris 9 9/05, Solaris 10 3/05 Operating Systems or subsequent compatible versions
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Note – For latest patch information go to <http://sunsolve.sun.com>. Installation information and README files are included in the patch download.

Processor Requirements

PCI-X I/O assemblies are supported in domains with the following processors:

- UltraSPARC III
- UltraSPARC III+
- UltraSPARC IV
- UltraSPARC IV+

Removing a PCI/PCI+/PCI-X I/O Assembly

1. Power off your system.

Refer to the *Sun Fire Midrange Systems Platform Administration Manual* for complete procedures for powering off the assembly.

2. Place a grounded ESD mat close to the system.

3. Attach a wrist strap or foot strap and connect the ESD strap to the system.

4. Completely loosen the four captive Phillips screws.

5. Simultaneously pull the two ejector levers outward to unseat the I/O assembly.

This action releases the board from the connectors.

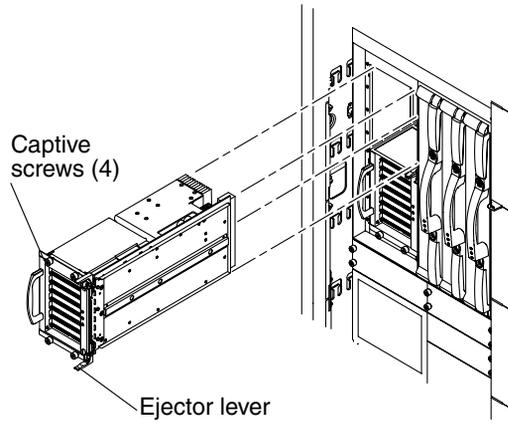
6. Remove the assembly from the card cage.

7. Place the I/O assembly on an ESD mat that is on a work surface.

Installing a PCI-X I/O Assembly

Note – PCI-X I/O slots 0 and 1 operate at 33MHz only. The remaining slots (2-7) operate at 100MHz.

1. Remove the protective cover from the new I/O assembly.
2. Line up the I/O assembly with the I/O assembly opening.



3. Slide the I/O assembly into the I/O opening.

The ejector levers should be on the inside of the I/O assembly and in the open position.



Caution – *Do not force* any assembly into a slot; this can cause damage to the assembly and system. The assembly should insert and seat smoothly. If it binds, remove the assembly and inspect the card cage slot for any obvious obstructions.

4. Simultaneously press the two ejector levers inward.
5. Tighten the four captive Phillips screws.
6. Power on the system.

Refer to the *Sun Fire Midrange Systems Platform Administration Manual* for complete procedures for powering on the assembly.

Note – After the system has been powered on, the Activated LED should be on (lit).

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