Sun™ Elite3D Graphics Card Installation Guide

THE NETWORK IS THE COMPUTER™

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Your Sun product is marked to indicate its compliance class:

- Federal Communications Commission (FCC) — USA
- Department of Communications (DOC) — Canada
- Voluntary Control Council for Interference (VCCI) — Japan

Please read the appropriate section that corresponds to the marking on your Sun product before attempting to install the product.

FCC Class A Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Shielded Cables: Connections between the workstation and peripherals must be made using shielded cables in order to maintain compliance with FCC radio frequency emission limits. Networking connections can be made using unshielded twisted-pair (UTP) cables.

Modifications: Any modifications made to this device that are not approved by Sun Microsystems, Inc. may void the authority granted to the user by the FCC to operate this equipment.

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2. This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful 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 harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Shielded Cables: Connections between the workstation and peripherals must be made using shielded cables in order to maintain compliance with FCC radio frequency emission limits. Networking connections can be made using unshielded twisted pair (UTP) cables.

Modifications: Any modifications made to this device that are not approved by Sun Microsystems, Inc. may void the authority granted to the user by the FCC to operate this equipment.

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Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

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This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

VCCI 基準について

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Installing Elite3D

Refer to the installation, service, and/or product note documentation provided with your Sun™ Ultra™ workstation for detailed Elite3D graphics installation instructions.

Before Installation

Refer to the *Solaris Handbook for Sun Peripherals* that corresponds to your operating system. The handbook describes how to safely shut down the system before installing any internal cards and rebooting your system after installation.

Installing the Elite3D Graphics

Refer to the documentation that came with your system or enclosure. Locate the section that describes how to install or remove and replace a UPA graphics card. Follow the UPA graphics card installation procedure or the removal and replacement procedure to install the Elite3D graphics.

Attaching An Antistatic Wriststrap

You must attach a wriststrap before proceeding with the following instructions.

Installing the Horizontal Elite3D Graphics into an Ultra 2 System

To install the horizontal Elite3D graphics into an Ultra 2, proceed as follows:

Note – Refer to the *Sun Ultra 2 Series Service Manual* or the *Sun Ultra 2 Series System Product Notes, part number 802-5936-12* for additional Ultra 2 installation information.

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1. **Locate the UPA bus connector on the Ultra 2 motherboard (**FIGURE 1**).**
2. **Remove the retainer clip closest to the power supply.**
3. **Remove the Ultra 2 filler panel on slot 3 (**FIGURE 1**).**
   - If applicable, remove any existing SBus boards from slots 2 and 3.
   - If applicable, remove any existing UPA graphics from the UPA bus.
4. **Remove the Elite3D graphics board from the antistatic bag.**
5. **Install the Elite3D filler panel, supplied in the installation kit, on SBus slot 3. Using a number 2 Phillips-head screwdriver, secure the washers and screws provided in the installation kit.**

Note – The cosmetic strip side must face the chassis exterior (FIGURE 1).

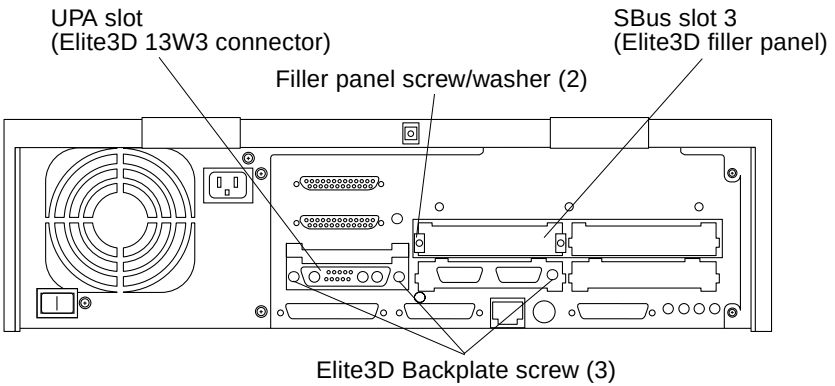

FIGURE 1 Ultra 2 Back Panel

6. **Lower the Elite3D into the chassis (at an approximate 45-degree angle) with one hand. With your other hand, guide the Elite3D backplate extension tab through back panel slot 3 (**FIGURE 2**).**

7. **Pull up on the Elite3D backplate extension tab through the back panel slot (**FIGURE 2**).**

8. **While holding up the Elite3D backplate extension tab, lower the Elite3D over the UPA bus connector on the motherboard (**FIGURE 2**).**

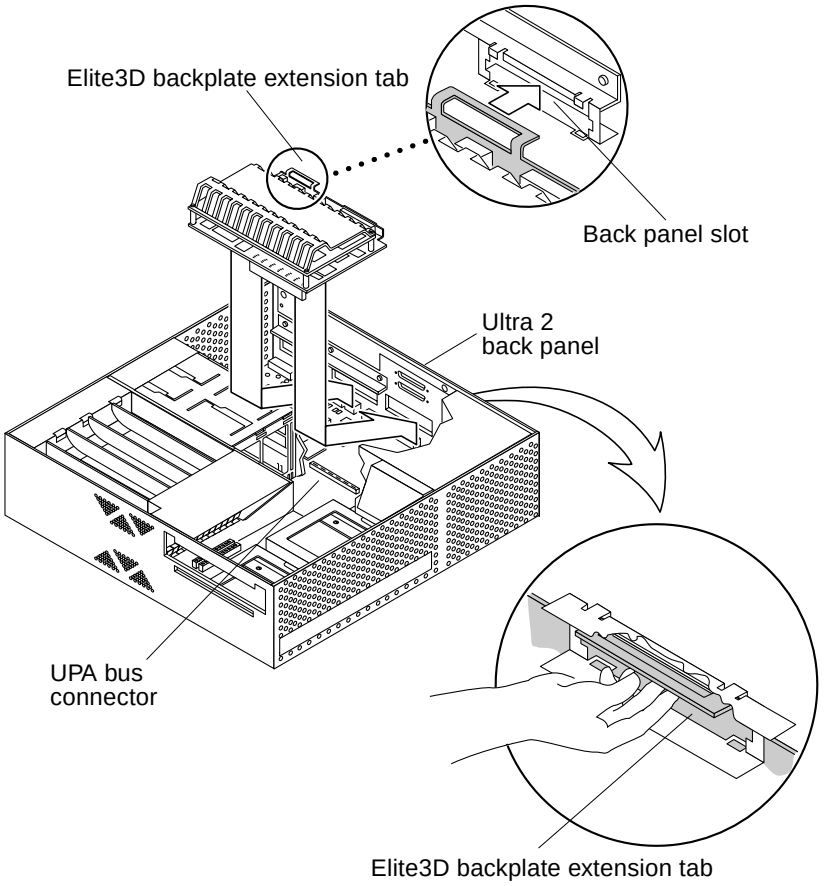

FIGURE 2 Installing Elite3D

9. **Pushing the Elite3D against the chassis back panel, carefully press both corners of the board *evenly* to push the Elite3D interface connector into the motherboard UPA bus connector.**

10. **Lock the UPA bus connector retainer clip onto the Elite3D.**

11. **Using a number 2 Phillips-head screwdriver, secure the Elite3D backplate connectors to the chassis with the provided screws (**FIGURE 1**).**

12. **Close and reboot your system.**

13. **Connect the monitor cable to the Elite3D 13W3 monitor connector (**FIGURE 1**).**

14. **Install Elite3D software.**

    Refer to the software installation instructions provided with your Elite3D CD-ROM packaging.

Installing the Vertical Elite3D Graphics

To install the vertical Elite3D graphics into a platform (such as the Ultra 10, Ultra 30, or Ultra 60), refer to the respective platform installation guide.

Changing the Monitor Screen Resolution

For most installations, the Elite3D automatically configures itself to the proper screen resolution and refresh rate for your monitor. However, if a non-Sun monitor is connected to the Elite3D, the monitor may have the wrong screen resolution.

To change the screen resolution, read the `afbconfig` man page and the *Solaris Handbook for Sun Frame Buffers* document, which is available in your AnswerBook™. The platform notes also describe how to configure your system for use with more than one monitor.

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